



# **Control Center**<sup>III</sup> Reference Guide

Version 5.28 March 2021





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## **About Control Center**

Control Center sits at the heart of some of the largest, most complex and groundbreaking security integration projects in the world. It is the ultimate PSIM software-based integration and management platform. It connects and manages disparate building and security technologies such as video surveillance, life critical systems, radar, analytics, HVAC, PIDS, GPS tracking and GIS mapping. Through aggregating intelligence from these systems, it allows organizations to react faster and more precisely to incidents. Control Center provides operators with real-time Situational Awareness through a Common Operating Picture (COP) and following an alert, alarm, or event presents step-by-step process guidance, ensuring complete compliance to security policies.

The recent release of Control Center facilitates the deployment of a greater number of larger solutions, resulting in:

- Faster solution deployment
- More robust solutions
- Significant increase in number of handled alarms

Control Center allows the user to build solutions that implement business workflows around alarms and include a specific entity representing a type of alarm. This makes it easier to define the rules and actions related to a specific alarm, reducing the deployment and maintenance time while increasing the performance of the solution.

# Understanding Control Center Service Architecture

Control Center uses a scalable Service Oriented Architecture (SOA) platform based on the Microsoft .NET Framework. A Control Center solution will therefore comprise several different services, each performing a specific function, configured to provide a complete PSIM solution.

This approach also provides maximum scope for introducing additional services to meet new requirements.

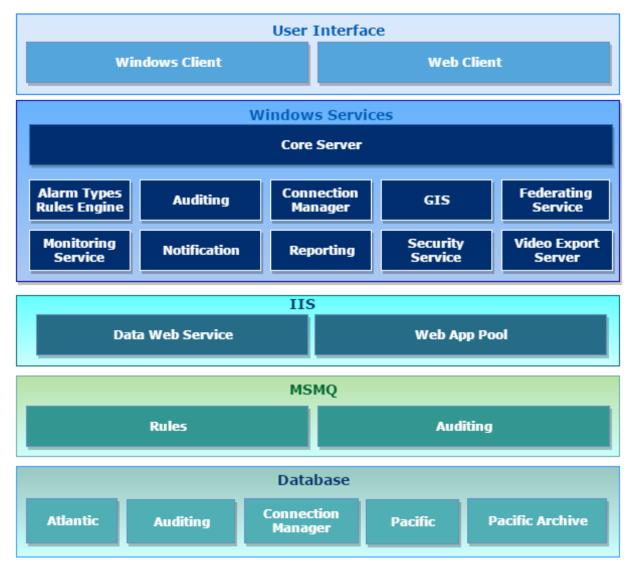
The Control Center installer provides the option to select the components you would like to install. Not all the services are required depending on which aspects of Control Center are to be used. For example, if video export is not required then the video export service does not need to be installed.

Control Center uses Microsoft SQL Server to hold data, therefore the key prerequisite for Control Center is an instance of Microsoft SQL Server. The installer will prompt you for SQL connection details for the database server where the Control Center databases are stored or will be stored. Where a database does not currently exist, for example, on a clean install, the installer will create the database as necessary. You can also specify custom database names during installation. For more information, see *Control Center Installation Guide*.

Control Center uses a service-oriented architecture to provide scalability and resilience. To facilitate the configuration and maintenance of the different services in a solution, corresponding objects are available within Control Center to represent each service.



- Server Objects Represent the physical machines running the instance of a service
- Service Objects Represent the overarching service which is the culmination of all servers



Control Center comprises of the following components.

Service	Description
Control Center Alarm Types	Provides alarm information to the client. Handles CRUD (create/read/update/delete) operations of alarm types in system configuration.
Control Center Audit Server	Logs all audit events in the cnlauditing database.
Control Center Connection Manager Service	Provide communications between sub-systems and Control Center.

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Control Center Federated Service	Provides the ability to federate independent Control Center solutions. This service is responsible for all communication between the disparate instances of Control Center server.			
Control Center GIS Service	tores and processes GIS information for Control enter.			
Control Center Monitoring Service	Provides state information about the different services.			
Control Center Notification Service	Provides notification events to Windows Clients; for example, device state changes.			
Control Center Report Server	Performs all core operations which are not managed by a dedicated service.			
Control Center Rules Engine Service	Processes each event logged by devices to determine if any triggers should be activated or an alarm is to be created/updated.			
Control Center Security Service	Handles Control Center security.			
Control Center Server	Performs all core operations which are not managed by a dedicated service.			
Control Center Video Export Server	Performs all video export transactions for all scheduled video export jobs.			
Control Center Data Web Service (IIS)	Provides a publicly available programming interface to Control Center data which is also used for the Web Client.			
Control Center Web App Pool (IIS)	Facilitates user authentication and general communications to Web Clients.			



## **Control Center Windows Client**

The Windows Client dialog requires a username and password. When logging in for the first time, you must enter the server address, which will be stored for subsequent logins.

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	ever <b>bridge</b> ®
ار این از این از این	Welcome, Please Login
	User name
	Password
	Current Windows user
	Login
	Server Address localhost EVERBRIDGE
	5.22.0.323 Copyright © 2004-2020 CNL Software Ltd. All rights reserved

The client application is automated to recognize when a server is updated, and to download and update the client software directly.

To log in to Control Center, you must enter a valid username and password when loading the Control Center Windows Client application.

**Note**: Upon a successful sign-in with the default password, you can change it with a password of your choice in **System Configuration** > **Users** > **User**.

## Logging into Control Center Using Command Line Options

The following command line options are available when running the Control Center Control Room Client.

- /user:<USERNAME> The login username.
- /pass:<PASSWORD> The login password.
- /server:<SERVER> The server to connect to.
- /port:<SERVERPORT> The custom port to which the server should connect.
- /backupservers Backup servers to connect to if the main server is not available.
- /hideserverdetails Obscures the server details from the user when the login box appears.
- /hidewindowsauth Removes the ability for the user to choose login as current user.



• **/currentwindowsuser** - Attempts to login to Control Center using the currently logged in Windows user.

To use these command line options, you must always select **Run as Administrator** and add the appropriate command line option to the Windows Shortcut for the Control Center Client application. For example:

"C:\Program Files (x86)\Everbridge\ControlCenter\ControlCenter Client\ccrc.exe/user:root pass:123456 /server:democcsc.everbridge.com /port:1234" /hideserverdetails

Or

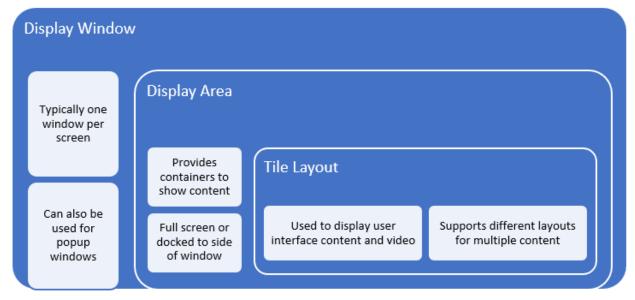
```
"C:\Program Files (x86)\Everbridge\ControlCenter\ControlCenter
Client\ccrc.exe" /currentwindowsuser/server:democc.everbridge.com
```

Multiple command line options can be added to the shortcut as shown above.



## **Control Center User Interface Structure**

The Control Center user interface constitutes various components that provide complete flexibility over where content should be shown within the Client.



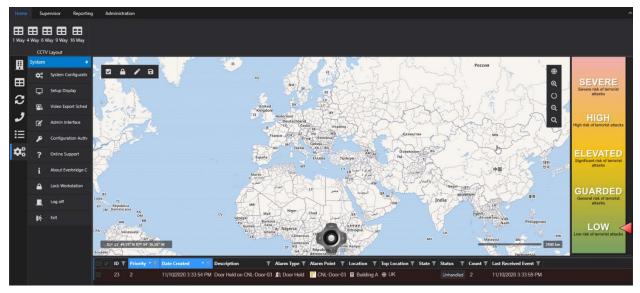
When installing and logging into Control Center for the first time, a default user interface will be shown consisting of a single display window, which can be renamed, and a default display area set to fill the display window. For more information, see <u>Default User Interface</u>.

The solutions engineer must create the necessary display windows and area to satisfy the user interface requirements for the solution. This can include any number of display windows and display areas based on the number of screens available and the content shown. The display configuration can also be cloned from one client to another for easy replication of the setup.



## **Default User Interface**

By default, Control Center comes packaged with system user interface components and displays them when the Client connects to the server. This includes a default display window with the Main Menu docked to the top of the window, the System Explorer docked to the left of the window, and a Status Bar in the lower part of the screen as shown in the screenshot below. The default window also includes the System Main display area which can be used to show content such as maps to the end user.



The default user interface comprises the following options:

- **System Menu** The menu for accessing all the system features in Control Center. For example, to access System Configuration and Admin Interface.
- Map toolbar Displays the options available to modify map settings/display.
- **Map Display** By default, a new installation of Control Center shows maps for the selected locations. This is implemented in the **System Explorer** user interface. **System Alarm Stack** can be configured to display from the alarms generated.
- **Status Bar** Shows Health Check connected to the Administrator Interface, Device Licenses that are currently being consumed by the system, the current user, client, and server names.
- **System Explorer** Displays the details of locations and assets within each location in a hierarchical view. It also includes fast search capabilities and can be configured by accessing the System Configuration window > System Objects > System Explorer GUI.
- System Main Main display area to display maps, tile layouts, dashboards, and so on for the end user.

You must first configure the user interface to include display windows and display areas to show the required user interface.



**Note**: The alarm stack and alarm control display areas are docked to the sides of their respective windows. The System Main and Video Workspace display areas are set to fill their respective windows. The Video Workspace display area in the following example contains a blank 2x2 tile layout, which demonstrates how a tile layout can be used to segment a single display area into different tiles.

The following is an example of a typical two-screen configuration:



### System Menu

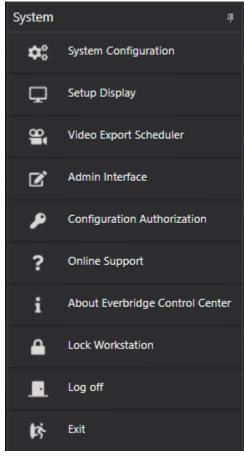
System Menu can be accessed by selecting **System**.



Option	Description
System Configuration	Opens the System configuration window
	Open the setup display window for creating new window and display area.
Video Export Scheduler	



Admin Interface	Opens the Admin Interface window
Online Support	Takes you to the URL Address it is defined with
About Control Center	A summary about Control Center
Lock Workstation	Locks the workstation. The user need to authenticate before logging into the client.
Log off	Logging off as the current user
Exit	Exit Control Center



A URL address can be set by the administrator for online support in the Enterprise Settings as follows:

- 1. Go to System Configuration.
- 2. Click on **Global Settings** tab on the top ribbon.

WWW.EVERBRIDGE.COM



- 3. Select **Enterprise settings** from the options in the left pane.
- 4. Enter a URL address for the support URL option available in the right window. If this field is left blank, then the Online support option will not be shown in the System Menu or in the help menu of System Configuration.



5. Click **Apply** to save the settings.

## **Configuring How System Tree Displays**

The left pane on the main display screen is the System explorer or System Tree. You can configure how your system explorer is displayed.

- 1. Go to System Configuration > My Organization > System Objects.
- 2. From **Overview System Objects** tab, navigate to **Graphical User Interface** and doubleclick **System Explorer**. The System Explorer GUI opens in design view so you can edit it.
- 3. From **Design Surface** tab, select one of the tab controls to display the properties pane. You can amend these properties, depending on your requirements. For example, you can change the size of the icons by selecting a size from the **Tab Image Size** drop-down list.





# **Licensing Control Center**

Control Center is licensed using the license code that was entered when logging into the Control Center Client for the first time. Each key specifies the number of Server and Client licenses, the device modules available, and the number of device license points. If you try to log into a server which has no licenses installed, you will be prompted to enter a license code. Enter your license code and Licensee information to continue.

			-	-	
Add a new Everbridge Control Center Software	License Code				
Software License Code		144			
Enter the new Software License Code exactly as it appears in you below. Once validated your new license will be available to use im		≈е	ver <b>bric</b>	lae"	
T				.90	
Licensee					
Replace all existing licenses	OK Cancel	Insuffici	ent Server lice	nses	
	There are no av Client installatio		ses for this Everbridge C	ontrol Center Con	trol Room
			t enter a Software Licens ontrol Room Client Serv		ains one or
		our Software Licer r further options.	ise Code below, alternat	ively contact your	

To access the License Manager dialog, in **System Configuration** > **Toolbar**, click License Manager. The License Manager dialog appears, which has the following tabs:

- License Capabilities Displays license information such as the Control Center features/capabilities that each of the individual licenses include, a utilization bar to indicate the level of usage of each module, used number of licenses, available licenses, and the total number of licenses available. For example, unless there are enough Control Room Client licenses available in the License Manager, you may not be able to enable the Multiple Logons feature.
- License Keys Displays the quantities of licenses issued, the License Identifier information, the Control Center modules you have access to, and an option to remove the existing licenses available. Control Center supports multiple license codes that unlock additional features. For information about the individual license codes, click License Code.



To remove and replace the existing license:

- 1. In the License Manager dialog, click the License Code tab > Remove this code button. The existing license code is removed and the Licensed Capabilities tab appears with no data.
- 2. Click Add Software License Code on the toolbar. The Add Software License Code dialog appears.
- 3. Enter the new license code, the licensee name, and then click **OK**.
- 4. Select **Replace all existing licenses** to add new software codes without removing the existing license code. This option is useful if you want to add a license with more capabilities and modules in Control Center.

**Note**: Even though subsequent licenses increment the available components, they do not replace or revoke components made available by previously installed license codes.

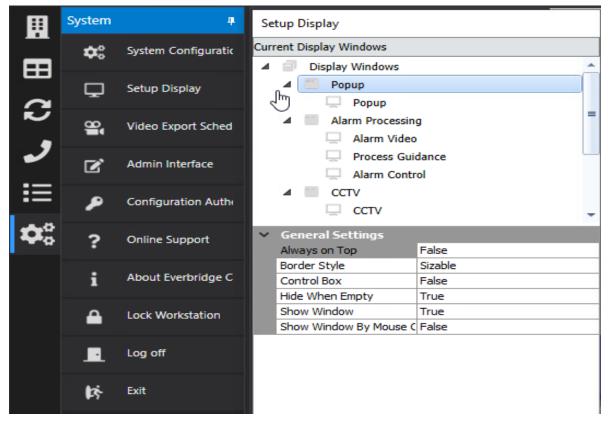


# Configuring Control Center Setup Display

You must configure the system before it can display a video feed or Graphical User Interface (GUI) on the Control Center client. This requires adding display windows and display areas in the **Setup Display** dialog.

- **Display Window** Serves as a blank canvas where you can place one or more display areas. The Display Window enables individual customization of the workspace.
- **Display Area** Available within the Display Window, you can set the Display Area to fill the window or docked to an edge.

You can configure display for Control Center client using the **Setup Display** dialog, by going to **System > Setup Display**.



**Note**: The display configuration is held on a per-client basis and must be setup for each client that is connected to the same server.

The **Setup Display** dialog enables you to add, rename, and remove several display windows and display areas.

You can also copy the display configuration from one client to another using the **Clone From** button in the **Setup Display** dialog. This is helpful if you want to run several clients with identical screen configuration settings.



## **Renaming Default Display Settings**

You can change the label of a display window in the **Setup Display** dialog. By default, the main window is displayed as **[enter customer name here]**.

To rename a display window:

- 1. Click the display window that you want to change to enter the edit mode.
- 2. Specify a new name, for example, Main.
- 3. Click Save.

### Adding a Display Window

You can add additional display windows from the context menu.

To add a display window:

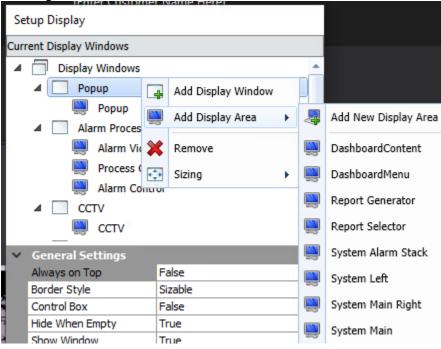
- 1. Right-click the **Display Windows** node to show the context menu.
- 2. Click Add Display Window.
- 3. Specify the window name as **Right**.
- 4. Click Save.

### Adding a Display Area

You can also add display areas to a display window using the context menu.

To add a display area:

- 1. Right-click the new display window called **Right**.
- Click Add Display Area > System Right. System Right appears in your Setup Display dialog.





**Note**: The configuration of the display area is stored in the Control Center Client. Display windows only exist within the configuration, whereas display areas are created as objects within the Control Center solution and can therefore be referenced through the system. For example, to show a camera into a display area.

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   Compared
   Co
- 3. Click **Save**. The right display window is now configured.

### Adding the System Alarm Stack

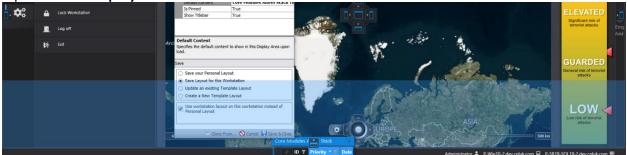
To add the System Alarm Stack to the Main display window:

- 1. Right-click the Main Display window.
- 2. Click Add Display Area and select System Alarm Stack.

# # everbridge\*

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Se	tup Display				
Curr	ent Display Windows				
	Process Gui				•
	▲ CCTV				
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	Alarm Stack Opt	ions			
	🜉 🛛 Alarm Stack	Options			=
	[Enter Cu Three	Add Display Window			SEVEL
	📕 Base 🛄 /	Add Display Area	F	4	Add New Display Area
~	General Setting Always on Top	Sizing	F		DashboardContent
	Border Style	Sizable			DashboardMenu
	Control Box	False			Report Generator
	Hide When Empty	True		_	Report Generator
	Show Window	True			Report Selector
	Show Window By Mouse C	False			System Alarm Stack

- 3. From **Properties**, set **Container Type** to **Docked**. This enables you to drag and drop the display area using the title bar to another part of the display window.
- 4. While **Setup Display** is still open, click the title bar and drag the display area to another part of the **Display** window.



5. Ensure that all the windows are configured the way you want to display your display windows, click **Save**.

The size and position of the windows is retained in the client record when saving. Therefore, the display windows returns to the last saved size and position upon logging into Control Center, if they are subsequently moved.

Note: To close the dialog box without committing changes to the database, click Cancel.



## **Theming Customized Graphical User Interface Controls**

Theming can be applied to customized Graphical User Interfaces. Theming applies to a sub-set of the controls:

- Alarm Activity Grid
- Button
- Checkboxes
- Comments
- Date/Time
- Drop-down lists
- Form panels
- Labels
- Link Labels
- Listboxes
- Manual Alarm Types Comb Boxes
- Number
- Panel
- Paragraph Text
- Resolution Types Combo Box
- Single Line Text
- Section breaks
- Table layout panels
- Titles. **Note**: If a Title control is themed, then then the **Background Image Mode** property becomes redundant.

Theming is enabled by default.

To disable theming:

- 1. From **System Configuration**, navigate to the GUI control that you want to untheme. To do this, you can either:
  - If it's an existing GUI, double-click the GUI whose control you want to theme to open the GUI editor.
  - If it's a new GUI, create the new GUI, drag the control you want to the **Design Surface** tab.
- 2. Select the GUI control. If theming is available for the control, the **Is Themed** property displays in the **Property** page.
- 3. Set the Is Themed property to False.
- 4. Reload the form, for example, by logging off and on again. The theme you have configured in the Modern Client Theme is no longer reflected in your GUI control. See <u>About Modern</u> <u>Client Default Theme</u> for more information.



**Tip**: The **Is Themed** property can be updated for all the controls within the current GUI at the same time by selecting the **Toggle Is Themed** button on the toolbar. The **Toggle Is Themed** button is only available in the GUI editor.

Toggle Is Themed

### **Configuring ControlBox Icons**

You can also enable and disable the ControlBox icons: Minimize, Maximize, and Close to show or hide on the Setup Display window.

The Close icon appears only on the Main Display window and Minimize and Maximize icons are supported only on other Display windows.

The Close icon that appears on the Main Display window follows the security policy that prevents exiting the Control Room Client. If a user without authority attempts to close the window using the ControlBox icon or the Task Bar Close, then the security policy requests that a user with appropriate permission confirm the action by entering a username and password.

If the user ends the Control Room Client Process using the Task Manager, then Control Center will be unable to intercept it. Therefore, ensure that a Group Policy preventing user access to Task Manager is implemented.

## Saving Display Layout Configuration

A layout records the size and arrangement of windows in the application. Changes made to the layout by end-users at runtime are not automatically saved. After the user has logged out, the user changes are lost. Upon logging back in, if the user wishes to see the same set of applications open, windows properly positioned, URL's, files or directories opened as needed, he will have to iterate the same set of steps to recreate the setup. Control Center now provides a solution that allows the user to save the layout manually when the application closes and restore it when the application is restarted.

For instance, if a workstation needs to load a video wall and play video from the cameras it is configured to each time it is logged in, regardless of the user, then the administrator can configure the video wall settings and save it for the workstation. So, every time a user login, the video wall pops up and starts to receive the video feed.

The Setup Display dialog has been updated to support saving layouts against a user, client or saved as a template for future use. Several layouts can be saved, and a desired layout can be restored when needed.



When the display setup is saved for a user, the software will load the user's layout regardless of client workstation. By default, user layout always takes precedence unless chosen otherwise. Saving of templates has been updated to allow users to specify the template name.

The Setup Display window will now show four save options and an optional check box to allow the software to load the client layout regardless of user. The four options are listed as below:

- Save your personal Layout saves the layout for the user
- Save Layout for this Workstation Saves the layout for the Client or workstation
- Update an existing template layout Changes made can be saved to the current template being used
- Create a New Template Layout Creates a new template

The optional check box shown below, when ticked will ensure that the Client layout is always loaded regardless of the user.

Disalau Mindau	
🖃 🔚 Display Windows	
🔄 🔝 [enter custom	er name here]
🛄 🕎 System M	ain
Properties	
✓ General Settings	
Always on Top	False
Border Style	Sizable
Control Box	False
Hide When Empty	False
Show Window	True
Show Window By Mor	us False
Always on Top	
Determines whether the Windows.	
Determines whether the Windows.	Window is always on top of other
Determines whether the Windows.	Window is always on top of other
Determines whether the Windows.	Window is always on top of other Layout
Determines whether the Windows. Save Save Save your Personal I	Window is always on top of other Layout Workstation
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Determines whether the Windows. Save Save Save your Personal I Save Layout for this Update an existing T Create a New Templ	Window is always on top of other Layout Workstation Femplate Layout
Determines whether the Windows. Save Save Save your Personal I Save Layout for this Update an existing T Create a New Temp	Window is always on top of other Layout Workstation Femplate Layout late Layout
Determines whether the Windows. Save Save Save your Personal I Save Layout for this Update an existing T Create a New Templ Use workstation layout	Window is always on top of other Layout Workstation Femplate Layout late Layout



When the user has logged in, and wishes to choose another layout, it can be achieved by clicking on **Clone From** at the bottom of the Setup Display window. All saved layouts and templates are displayed. The user can choose from the list displayed and the layout will be applied straight away

You can also create a new template for the client or edit the existing one for any changes and save it for future use.

A hot key can also be defined to save a layout against a client or a user. When the **Use Client Layout** property for the windows client object is set to true, then the layout is saved against the client. It will be saved against the user if set to false. A message will be displayed to confirm against whom the layout was saved.

Monitor Power	1
Navigate Location	
Program Path	C:\Program Files (x86)\CNL S
Restart Client	N2
Shutdown PC	Click to edit
Start Client	Click to edit
Stop Client	
Unattended	False
Use Workstation Layout	False
VCM Configuration	VCM Per Driver
Video Wall Configuration	Enabled
Wakeup	4.5

A new type permission **Layout Configuration** is also introduced to restrict users from saving or updating the layouts. The Administrator can grant/deny access to a user or groups for saving the layout and templates for the user or for a workstation.

Grouped by:	Permission Ty	/pe					
Туре	7	Allow	×	Can Read 🏹	Allow	Ŷ	Can Write 😽
GIS Layer M	anager	Allow	۷	]	Allow	~	
Global Setti	ngs	Allow	Ŷ		Allow	¥	]
Icon Manag	er	Allow	Ý		Allow	~	]
Import		Allow	Ŷ		Allow	Ý	
Layout Conf	iguration	Allow	Ŷ		Allow	×	
License Mar	ager	Allow	Ŷ		Allow	¥	]

# **Positioning of Display Areas**

Control Center provides an enhanced user capability to dock/undock and pin/unpin the display areas to correspond to the user needs.

You can now position floating display areas anywhere in the application. Docked display areas always remain connected to the window and occupy a unique position in the window frame. It can also be combined with other docked display areas in the same position into a tabbed collection.



# Configuring the Display Area

Four properties allow users to dock or pin a display area to enhance user experience, as listed in the table below.

Property	Description	Value	Function
Allow User Docking	Allows the display areas whose container type property is not full screen to be docked	True/False	Allows the user to Dock/Undock the Display area Note: For the Display area to be able to move to a different location and
	TUIT SCREET LO DE GOCKEG		be docked `Allow Float' Property must also be True.
Allow User Float	Allows the display area to float about and be placed anywhere in the application		Allows the user to drag the display area and place it anywhere in the application or dock it at a desired location.
Allow User Pinning	Allows pinning/minimizing of the display areas	True/False	Allows pinning of the display area so that they continue displaying in its place or minimized when unpinned. Setting this property to True will allow the user to pin/unpin the display area.
ls Pinned	Determines the Initial state of the display area when logged in	True/False	By default, it is set to True. The display area will be displayed in its position when the application loads up. This can be changed anytime during runtime to false to minimize the display area.



Pro	perties		
*	Display Area Appeara	nce	
	Allow Drop	False	
	Allow Tile Menu	False	
	Allow User Docking	True	
	Allow User Float	True	
	Allow User Pinning	True	
	Border	False	
	Hide When Empty	False	
	Tile Aspect Ratio	Fill	
	Tile Layout Aspect Ratio	Fill	
	Tile Menu Mode	All	
¥	Workstation/Persona	l Configuration	3
	Container Type	Docked	
	Default Content	System Alarm Stack	
	Is Pinned	True	
	Show Titlebar	True	~

**Note**: Only Administrators or users with Administrative rights or users with Type permission **Layout Configuration** set to Allow will be able to modify the above-mentioned properties. However, the administrator can set the properties for the end user to be able to dock or pin a display area.

G	rouped by:	Permission Ty	ype					
	Туре	7	Allow	Ý	Can Read 💎	Allow	*	Can Write 🝸
	GIS Layer M	anager	Allow	Ý	]	Allow	~	
	Glob <mark>al</mark> Settir	ngs	Allow	Ý		Allow	Ŷ	
	Icon Manag	er	Allow	Ý		Allow	~	
	Import		Allow	×		Allow	Ý	
	Layout Conf	iguration	Allow	٧		Allow	~	
	License Man	ager	Allow	~		Allow	~	

# Points to be Noted Before Upgrading to Version 5.9

When you are upgrading to version 5.9, there are a couple of behavioral changes you may notice and some work around to make it look like your display from the previous versions:

Display area tab is shown even when there is only one display area in the window. If you
have a display area with container type set to Fullscreen, the window will still show a tab
at the top left corner. This cannot be hidden at the moment even when there is only one
display area to show. The users with administrator rights can however set the display area
to 'docked' which will hide the tab from the display.



New Window
DA1
Empty Add Tile Layout for this selected display 'DA1'

- 2. By default, the docking and pinning properties for all display areas (Fullscreen or Docked) are set to false. Hence, they cannot be dragged out of its place or docked elsewhere unless the administrator changes the property to True in the Setup Display window. But the Fullscreen display area stays in its place regardless of the property set on it. However, the System Main is seen to behave slightly differently. Although it is of Fullscreen container type it can still be dragged out of its place. To avoid the end users doing this, the administrators can do one of the two workarounds mentioned below:
  - Set the Allow User Docking and Allow User Float properties to False
  - Set the **Show Titlebar** property to **False**

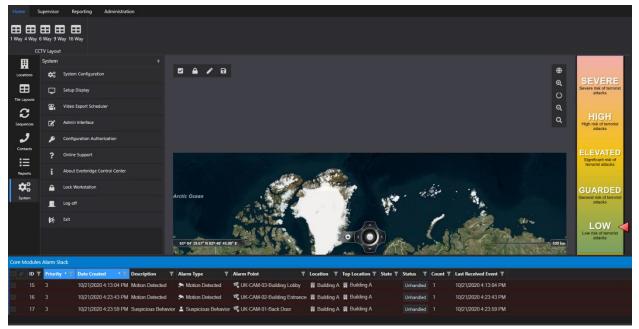
# Pinning and Unpinning the Display Area

A display area can be minimized if the user is allowed pinning. The administrator can set the **Allow User Pinning** property in the **Setup Display** window to true for the user to be able to minimize the display area.



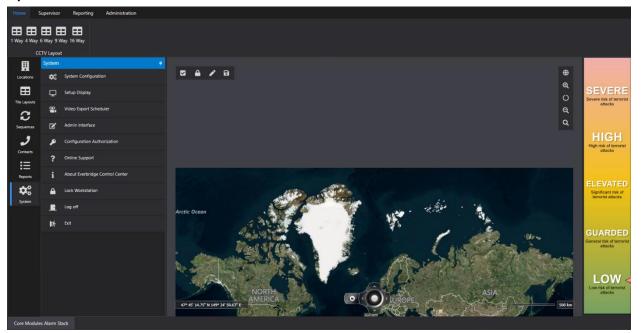
If for instance the **System Alarm Stack** display area is created and docked below the **System Main** window, and is allowed pinning, you will be able to minimize the Alarm Stack, either by clicking on the pin at the top right corner of the window or by setting the **Is Pinned** property in the **Setup Display** window to false. However, in minimized state, when a new alarm gets populated in the stack, the title bar of the alarm stack starts to blink to alert the user. The user can choose to hover over the title bar to temporarily expand the window and view the alarms and then click anywhere on the application to collapse it. If the window needs to be restored to its original state, the user needs to click on the title bar of the window.

### System Alarm Stack pinned





### System Alarm Stack minimized



Notes:

- When the System Main is set to container type **FullScreen** and unpinned, upon hovering on the tab, the content isn't visible. The user will have to click on it and pin it to see the contents again.
- When you log in with the upgraded Control Center Version 5.9 you will not be able to drag the System Explorer or dock it. However, if the system explorer window is unpinned and pinned back to its place you will be allowed to drag it out of its position and either float it or dock it into another position.
- When the alarm stack with multiple views is minimized/unpinned, the user is not able to pin it back to its position. Upon hovering the alarm stack temporarily opens but does not allow to be pinned. The suggested workaround would be to click on the highlighted bar at the bottom of the minimized view as shown in the picture below which brings the alarm stack back to life and then pin it.

# Floating a Display Area

A floating display area is not connected to any window, hence, can be moved anywhere in the application and will always appear in the foreground i.e. it cannot be hidden behind the window. To make the floating window active you need to click on its title bar

To be able to secure the floating display area and not accidentally loose it, the **Show Titlebar** property in the **Setup Display** becomes insignificant and bear no changes regardless of the value set to the property. This is because the title bar is always used to move the display area around.

To float a display area, do the following:

- 1. Go to **System > Setup Display** window.
- 2. Click on the display area you want to change the properties for.



- 3. Click on the Allow User Docking property and set it to True.
- 4. Click on the Allow User Float and set it to True.
- 5. Save the layout.
- 6. On the main screen, drag the display area from its position and either dock it in another position on the window or allow it to float.

Notes:

- Only docked display areas can be floated.
- You cannot save your System Explorer layout if the System Explorer is floated. You must dock the System Explorer and then save your layout.

# **Docking a Display Area**

A docked display area occupies a unique dock position within the window. Two or more docked display areas can be tabbed if they are unpinned into the same dock position within the window. As a result of this, you can only see one window at a time. A collection of tabs can be seen at the top of the dock frame The tab selected/hovered in the collection determines which display area is active and visible.

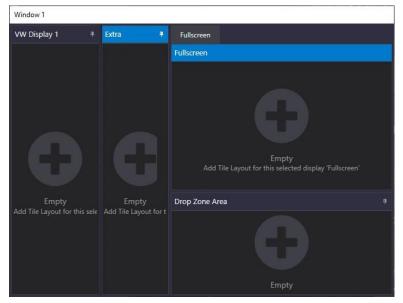
Wind	low 1	
Extra	Fullscreen	
Γ.	Fullscreen	
VW Display 1	Empty Add Tile Layout for this selected display 'Fullscreen'	
	Drop Zone Area 4	
	Empty	

If the display area is docked, you can move the display area to a new docking position or undock the display area by dragging it out of the window and allowing it to float.

To dock a floating Display area, do the following:



- 1. Grab the **Title** bar of the floating display area and drag it over the window in which you wish to dock.
- 2. Choose the dock position and release the mouse.
- 3. Unpin the display area if you want it to be a part of the tabbed collection.



If the display area has never been docked before, it will be set in a new untabbed location in the window. If it had been docked before and was in a tabbed collection, it still assumes a new dock location and will not return to the previously docked position. The user can manually move the display area to a tabbed collection or retrieve it from the layout which has the previously saved setting.

When you are docking a display area by dragging it, you can control its destination position. As you drag the display area out of its docked position it can either be left to float or can be docked in any of the four positions [left, Right, Top, and Bottom] in the window frame. The positions are shown when you have grabbed the display area from its position and holding it.

When you choose the dock position and move the display area to it, a transparent window will appear to show the new positioning of the display area. This outline shows where the display area will be docked if you release the mouse button at that point.

Few points to note when you drag a display area:

- If you drag a display area over an empty dock, it will be docked in the position and occupies the entire frame. However, if you drag it to a dock that already has a display area, then they are compelled to share the frame and hence will appear side by side.
- 2. If two or more display areas are docked in the same dock position and are pinned, it appears as a tabbed collection and only the display area selected is visible consuming the entire frame.
- 3. If you drag a display area to a position outside the window, the display area will remain floated.



- 4. If the display area is allowed docking and has been denied floating, it is not be possible to move the display area to a new location. Hence for the display areas to be moved to a different dock location, Allow Floating property must also be enabled.
- 5. If you want to re-dock a display area to the previously docked position, you will have to manually set it up or retrieve a saved layout that has display areas docked in the desired locations.

# **Undocking a Display Area**

You can drag a docked display area by grabbing on its title bar and dragging out of its docked position. This action enables you to move the display area to a different dock position or undock it to let it float. Dragging a docked display area to a new position works exactly like dragging a floating window to a new dock position.

## Tabbing a Display area

You can create a tabbed collection of all docked and full screen display areas. All full screen display areas are automatically tabbed. Display areas in the same dock location appear side by side unless they are pinned. Only the ones that are pinned will appear as tabbed and the ones that aren't will appear in the frame all the time until the pinned display area is selected. At this point of time the unpinned display area goes in the background and will remain there until clicked outside of the current dock position.

**Note**: Floating Display areas cannot be tabbed. It requires to be docked to a position where there are at least one display area and pinned to the location.

## Display the Window at the Mouse Cursor Location

This feature enhances the user experience by providing the user the ability to display a window at a desired location. This helps to expand the definition to include the user's context in the application. This feature necessitates better accessibility and flexibility to the user.

A property in the Setup Display dialog allows you to specify if the display window needs to be shown at the cursor location or not.



	<ul> <li>display at cursor</li> <li>test</li> <li>[enter customer name here</li> <li>System Main</li> <li>New Window</li> <li>Snapshot</li> </ul>	9]
Pro	operties	
Y	General Settings	
	Always on Top	False
	Border Style	Sizable
	Control Box	False
	Hide When Empty	True
	Show Window	True
	Show Window By Mouse Cursor	True
sł	now Window By Mouse Cursor	d be shown where the mouse cursor is.

For example, if the user has configured a GUI to be displayed in a tile layout, then:

- 1. Go to **System Configuration** > **System Objects** and select the **Tilelayout** object to display.
- 2. Right click on the **Tilelayout** object and select the display area.
- 3. The display window is shown at the mouse pointer location.

Report Tem	Edit	
🗄 🧧 Device O	Search for more Tile Layouts New	
E Device O	Search	Reports display informat
Tile Layout		Auto Generated Tile Layo Auto Generated Tile Layo
🗉 🛄 Newssord 🚽	Import	Auto Generated Tile Layo
🗉 🛅 System 🖌 耈	Export	One way tilelayout conta
🗄 🛅 System E 🗄 🛅 System E	Refresh	Empty one way tilelayou Empty four way tilelayou
🗉 🛅 System E 📓	List Referencing Objects	Empty nine way tilelayou
🗄 🛅 System N 🔞	Delete	One way tilelayout conta
Type Permis 📑	Create Shortcut	Snapshot
🗉 🚯 Default T 🔇	Disable	System Main
<	Rename	test
	Display Tile Layout On	Search for Client

4. Double click on a Camera on the map to start the video feed.



The user can extend this functionality by drafting a response plan to start a video feed from a camera. You can configure the display window to popup and start the video feed at the location where the mouse cursor is located by double clicking on the asset. The video feed on the window will continue until another camera is selected to display or the tilelayout is closed.

# **Configuring Control Center Permissions**

A granular security permission structure sits at the core of Control Center, which is primarily defined in the following areas:

- Security Policies, which define behavior, for instance, the right to access the **System Configuration** interface.
- Object Type Permissions, which define the ability for users to read and write specific types of objects, Folder.
- Object permissions which defines read, write, and execute access to folders and objects.

# Adding Users and Groups

Before a user can start using Control Center, at least one User Group must exist, and the user must have an account that is a member of the user group. By default, Users with the administrator role can create and remove a list of users and groups providing administrator users with greater control over managing security permissions for those users.

Typically, you create a user account and make that account a member of an existing user group.

To configure users and groups:

- 1. Create a new user group called **Supervisors**.
- 2. Configure the **Supervisors** group to have full control.
- 3. Create a new user account and make that user account a member of the group **Supervisor**.

**Note**: To remove users and groups, simply right-click on the user or user group and click **Delete**. **Tip**: You can create users and groups via the Admin Interface as well.

## **Default User Groups in Security Settings**

By default, the following user groups are available in **Security Settings** on a fresh installation of Control Center.

 System
 Account Administrators
 Web Port

 Administrator
 Device Administrators
 Web Port

 Administrators
 Backup Operators
 Backup Operators

 Users
 Video Export Administrators
 Second Administrators

 Response Plan Designers
 Mobile Client Users
 Second Administrators

# Security Policies for Client and User

Use security policies to define password policies and login information for Control Center clients and users. For example, you can choose to restrict or allow multiple logons, or enable and disable complex passwords, define the minimum password length and so on.

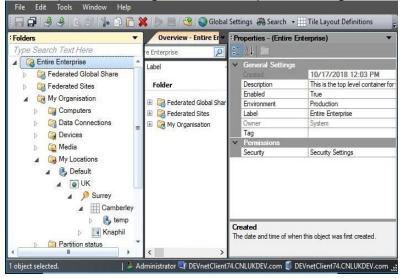


There are two types of security policies: Client and User. See <u>User Policies</u> for more information about configuring user security policies.

# **Configuring Client Security Policies**

To configure security policy for the client:

1. Click System > Configuration. The System Configuration dialog opens.



2. Right-click on the Entire Enterprise folder and select Security Policy. Security Policy window opens up.

Folders 🔹	Overview - Entire En	Properties - (Entire	Enterprise) 🔻
	re Enterprise	: 21 E	
▲     Construction       ▶     Construction	abel Polder	<ul> <li>General Setting</li> <li>Created</li> <li>Description</li> <li>Enabled</li> </ul>	s 10/17/2018 12:03 PM This is the top level container fo True
Collapse All	<ul> <li>B interaction in the second se</li></ul>	Environment Label Owner	Production Entire Enterprise System
▷         Image: A marked black b		Tag Permissions Security	Security Settings
<ul> <li>Import</li> <li>Export</li> <li>Refresh</li> </ul>			
▷     □     Pi     ⊗     Delete       ▷     ⊗     Sr      Create Shortcut       ▷     ⊗     Si      Rename			
▷     ◯     □       ▷     ◯     U:       □     Disable Debugging ▶       Security Policy	< >	Created The date and time of w	then this object was first created.

- 3. Select **Client Policies**. The available security policies are displayed on the right.
- 4. Double-click **Allow multiple log ons** to define whether multiple clients can connect to a single server. The **Allow Multiple log ons Properties** dialog opens.



To enable multiple log ons:

- 1. Select **Define policy**.
- 2. Set the value of Allow multiple log ons to True, and then click OK.

**Note**: Ensure that there are sufficient Control Room Client licenses available in the License Manager to enables this feature.

To prevent multiple log ons:

- 1. Select **Define policy**.
- 2. Set the value of Allow multiple log ons to False, and then click OK.
- 3. Click Save.

# **User Policies**

Each of the user policies have a unique purpose in Control Center:

- Video-specific
  - PTZ Lease
  - Video Export Administrator
  - Video Export Deferrers
  - Video Export User
  - VideoWall Leasing Priority
- Permissions related
  - Access to System Configuration
  - Access to Admin Interface
  - o Access to Response Plan Designer
  - Access to Setup Display Window
  - Can manage users and groups
  - Config Authorization x2
  - Allow Interactive log on to Mobile Client
  - o Allow Interactive log on to Web Portal
  - Allow Interactive log on to Windows Client
  - Access to the Map Note editor
  - o Add Clients
- Security related
  - Password Settings
  - Account Expiration Notification
  - o Mobile Client Credentials
- Auditing-specific
  - Message for users Logging on
  - Auto Log off
  - Can exit Control Room Client



- Can Lock Application
- Can logoff from application
- Can manage Auditing and Activation Logs.
- Alarms-specific
  - Allow Alarm Handling Takeover
  - Allow Bulk Resolution of Alarms

# **Defining Password Policies**

To define the password policy for the Control Center user:

- 1. In the **System Configuration** window, right-click on the **Entire Control Center Enterprise** folder and select **Security Policy**.
- 2. Click **User Policies**. The available policies are displayed on the right.

Overview - Users	Security Policies (Users)	- ×
Security Policies	Policy	Security Setting
Client Policies	🔢 Access to Admin Interface	Administrator, Administrators
	Access to Response Plan Designer	Administrator, Administrators, Response Plan Designers
	Access to Setup Display window	Administrator, Administrators
	🔢 Access to System Configuration	Administrator, Administrators
	🖼 Access to the Map Note Editor	Administrator, Administrators, Users
	🕎 Account Expiration Notification	Disabled
	🖼 Add Clients	Administrator, Administrators, Account Administrators
	🔢 Allow Alarm Handling Takeover	No Security Principals Defined
	I Allow Bulk Resolution of Alarms	Administrator, Administrators
	Allow interactive log on to Mobile Client	Administrator, Administrators, Mobile Client Users
	Allow interactive log on to Web Portal	Administrator, Administrators, Web Portal Users
	Allow interactive log on to Windows Cli	Administrator, Administrators, Users
	🖼 Auto log off	Disabled
	🖼 Can exit Control Room Client	Administrator, Administrators, Users
	Can Lock Application	Administrator, Administrators, Users
	Can Log off from Application	Administrator, Administrators, Users
	Can manage Auditing and Activation Logs	Administrator, Administrators
	Can manage users and groups	Administrator, Administrators, Account Administrators
	Configuration Authorisation Required	Users
	Configuration Authorisers	Administrator, Administrators
	Message for users logging on	Disabled
	Mobile Client Credentials	Enabled
	Password Settings	Disabled
	🕎 PTZ Lease	Administrator, Administrators, Device Administrators
	Video Export Administrator	Administrator, Administrators, Video Export Administrators
	Video Export Deferrers	Administrator, Administrators, Video Export Administrators
	🔄 Video Export User	Administrator, Administrators, Video Export Administrators
	VideoWall Leasing Priority	Administrator, Administrators, Device Administrators
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	I	

- 3. Double-click **Password Settings**. The **Password Settings Properties** dialog opens.
- 4. Select **Define policy** and specify the following settings:
  - a. Enable Complexity check to True.
  - b. Enable Password Policy to True.
  - c. A value for Maximum Password Age.
  - d. A value for Minimum Password Age.
  - e. A value greater than 1 for the Minimum Password Length.
  - f. A value greater than **2** for previous passwords to be stored in the logs.
- 5. Click **OK**.

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# **Changing Password**

To change the password:

- Go to the System Configuration > My Organization > Users folder.
- 2. Right-click Administrators and select Reset Password.
- 3. In the **Reset Password** dialog box, enter the new password.
- Select User must change password at next logon, if you want the password to be changed at the next logon.
- 5. Click OK.

## Lock Application and Logging off Security Policies

Two new security policies have been introduced to prevent unauthorized users from locking and logging off the Control Center application. The following new security policies enable you to:

- Can Lock Application Determine which users and groups can lock the workstation using the normal process.
- Can Log off from Application Determine which users and groups can log from the application.

If you attempt to lock or log off from Control Center without the security policies enabled, then you are prompted to confirm the action by entering a username and password of a user with appropriate permissions.

For backwards compatibility, the security policies are enabled by default when you add new User groups to ensure all existing customers and users can continue to work in the same ways prior to the upgrade.

## Allow Interactive Log on Settings

Use the Allow Interactive log on settings to manage permissions for users as part of the login process. For example, you can define which users can log in to the Windows Client, Mobile Client, and Web Portal.

Allow interactive log on to Windows Client Administrator, Administrators, Users

 Image: Allow interactive log on to Mobile Client
 Administrator, Administrators, Mobile Client Users

 Image: Allow interactive log on to Web Portal
 Administrator, Administrators, Web Portal Users

- Allow interactive log on to Mobile Add log on permissions for mobile users.
- Allow interactive log on to Web Portal Add log on permissions for Web Portal users.
- Allow interactive log on to Windows Client Add log on permissions for Windows Client users.

Note: If you have upgraded Control Center and wish to use the Mobile Client and Web Portal, ensure that you have manually added the Mobile and Web Portal user groups to the folder structure using the Security settings option.



# **Control Center Security Settings**

Security settings determine which users have Read, Write, or Execute permissions at the folder level. Security settings can be configured for an object type at a folder level or locations level.

Objects do not normally have permissions of their own, they inherit it from their parent folder. The following permissions are available in the system:

- Read View permissions to objects
- Write Edit and update permissions
- Execute Run executable methods

Read	✓
General Settings(200)	
Permissions(202)	
Properties(2)	
Write	
General Settings(200)	
Permissions(202)	
Properties(2)	
Execute	
General Settings(200)	
Permissions(202)	
Properties(2)	

By default, permissions are allocated in the following order:

- All users except the Admin Users are allocated with read permissions at the folder and location level.
- All Administrator users are allocated with Read and Write permissions.
- All Administrators users are allocated with all permissions.

### **Note**: Permissions on exported objects shall not be retained.

### **Inherited Settings**

You can apply inherited permissions across folders and locations if required by simply selecting the **Allow inheritable permissions from parent** to propagate to this object option. For example, if you had specific permissions applied to a user or user group, and then you select the inheritable permissions check box, the permissions will change and therefore the permissions at the top parent folder hierarchy will apply.

To reset permissions for child objects, select the Reset permissions on all child objects and set propagation of permissions option. In other words, if you want to remove inherited permissions from the parent folders to child items (doors, devices), then select the reset permissions option.



# **Object Type Permissions**

Object Types' permissions flow in the following order depending on how they are set:

Read	Write	Execute	Permissions
Allow	Allow	Allow	View, edit and run an object type.
Allow	Allow	Deny	View and edit an object type but cannot run any of the methods on the object type.
Allow	Deny	Deny	View the object type, but cannot edit, or run any of the methods on the Alert State.
Allow	Deny	Allow	Can view and run methods on an object type.
Deny	Deny	Deny	Cannot see the object type in System Configuration and hence cannot run methods or edit.
Deny	Deny	Deny	Cannot see the object type that is raised against an object when plotted on a map. A user can see the selected object type in System Explorer and Map whose read permissions are denied.
Deny	Allow	Allow	Cannot see the object type and hence cannot run methods or perform the edit operation.

### Allowing\Denying Users with Read-Access Permissions to View a Folder

In this example, the folder location has been used to describe permissions. At least two clients are configured to the same server (one as an administrator and the other as a user).

To deny read-access permissions to a location:

- 1. On the first client, create a new user account.
- 2. On the second client, log in to Control Center using the new user account.
- 3. Create a location called UK and create a scene.
- 4. On the first client, in System Configuration with the location selected, click Properties > Security Settings. Then, clear the Allow inheritable permissions from parent to propagate to this object selection.
- 5. From the **Security Settings** dialog, click **Add**. The **Search Objects** dialog appears.
- 6. Click **Find Now**, then select the new user and click **OK**.
- 7. Click Deny in the Read section.
- 8. Verify the first client to verify that the location **UK** has now disappeared.

Any child folder under UK should also have now disappeared. For example, the scene UK will not be available to view. You will see the following error message:





Error you don't have read permissions to view the scene

For example, if a location had a door or device, then they will be hidden as well. In the above example, the R<sub>2</sub> user will disappear from the list of users & groups.

#### Notes:

- Make sure to restart the client to see the changes take effect.
- To provide read-access permissions, simply select the user group and click **Allow** under the **Read Type** category

# Setting Permission to View/Hide Device Events

The permissions to view/hide the Alarm and Event history from the device context menu on the map can be set in the Enterprise Properties window as explained below:

- 1. Go to System Configuration.
- 2. Select Entire Enterprise from the folders in the left pane.
- 3. Select **Security** from the **Properties** window on the right. A dropdown window displays the list of users and related permissions for the selected user.
- 4. Uncheck the **Allow inheritable permissions from parent to propagate to this object** to set permissions for a particular device or location. In this case, the permissions will be localized and does not inherit permissions from the parent.

Note: If you do wish to keep the parent permissions then you need to leave it selected.

- 5. Scroll down to **Device Events** options to set the **Allow/Deny p**ermissions for the user.
- 6. Click **OK**.

# everbridge®

	: Pr	roperties - (Entire	Enterprise)	*
	~	General Setting	ls	
		Created	10/17/2018	12:03 PM
		Description	This is the top	level container for
		Enabled	True	
		Environment	Production	
		Label	Entire Enterpris	se
		Owner	System	
		Tag		
	~	Permissions		
		Security	Security Settin	qs 🗸 🗸
Administr	ator ators		evice Administrators Ickup Operators	
	ators	2 Ba 2 Vic		ors
Administr Busers Busers	ators	2 Ba 2 Vic	ickup Operators deo Export Administrat obile Client Users	>
Administr Busers Busers	ators e Plan	Designers 2 Mc	ickup Operators deo Export Administrat	
Administr Users Respons <	ators e Plan for Syst	Designers 2 Mc	ickup Operators deo Export Administrat obile Client Users	>
Administra Users Response Commissions f Type Categ	e Plan or Syst	Designers 2 Mc	ickup Operators deo Export Administrat obile Client Users Add	> Remove
Administr Users Response C Permissions f Type Categ Device Ana	e Plan for Syst gory alytics(7	Designers 2 Mc	ickup Operators deo Export Administrat obile Client Users Add	> Remove
Administr Users Response C Permissions f Type Categ Device Ana Device Cor	e Plan or Syst gory alytics(7	Designers 2 Mc	ickup Operators deo Export Administrat obile Client Users Add	> Remove

7. Logoff as Administrator and login as the user whose permission was set in the previous step. If the permission was denied, the user will not be able to see the **View Recent Alarms/Events** option on the right click menu on the map.





## Setting Active Directory Group Permissions

To set Active Directory group with read-only permissions

- 1. Create a new group independently or by using the wizard.
- 2. Create a user and add the user to the Admin group.
- 3. Select the created group and verify that the user only has read permissions to the group.
- 4. Log in as the user and view the property grid for the user. Verify if the active directory group property can still be selected.

## **Frequently Asked Questions**

#### Can permissions specific to objects be exported?

Imported objects inherit their permissions from their parent objects. If your import contains folders, the hierarchy structure of child folders will be maintained.

#### Describe the difference between Denying Read Access permissions and not having read access?

They are one & the same.

#### What happens to child locations when settings at the parent level changes?

It inherits unless you select the second (reset permissions) check box.

#### Are Security Policies and Permissions related?

Security policies and permissions are completely separated from each other.

#### What is a typical usage of permissions in a federated solution?

At the parent site, the permissions are set on the site folders under the Federated Sites folder to determine who can see the site in the location tree and who would receive alarms from that site. You can also control other settings such as permissions to unlock doors and so on. For example, the permissions are set at the high-level folder and then inherited downwards.

Typically, in the federated sites folder, the permissions are set on the site folder to determine what roles can see that site using the Security Settings property.



# **Type Permissions**

The Type Permissions enables greater granularity with permissions for limited administrator users. The primary objective of this feature is to allow administrators to restrict the ability of users to perform certain actions and to interact with certain objects types within Control Center for specific user groups across a federated solution or in an isolated installation.

A Type Permissions object will typically have permissions configured for multiple security principals. When deciding whether a user has permission or not, the security permissions, which the user is member of are tested against the security permissions configured for the Security Principals in the Type Permissions object. If a user is part of multiple groups, then depending on the permissions type set, you can determine what set of permissions take precedence. For any given feature or object type, if any of the security principals in the Type permissions object has deny access set against it, then the user will be denied access. If there is no deny set for the feature or object type, then the user will be granted access if any of the security principals have Allow access.

Permissions can be set to Allowed, Denied, or Unspecified. Denied always takes precedence over Allowed. Unspecified results in Denied, if no other permissions are defined.

# **Configuring Type Permissions**

With a fresh installation, a Default Type Permission object is created which can be renamed and edited by the user. A new object can also be created and the user can choose which object will be used on the system at any given time.

- 1. Create a new **Type Permission** object under **System Objects** in the **System Configuration** window.
- 2. Double-click and open the **Type Permissions** object. The **Security Principals** window opens up.

\dn	ninistrator	Add					
Use	rs	Delete					
	nissions ouped by: Permission Type	2					
_	ouped by. Termission type		-				
	Type $\nabla$	Allow Y	Can Read 🟹	Not specified	*	Can Write	7
		1	Can Read 🗸	Not specified	*	Can Write	7
	Туре 🛛	1		Not specified	>	Can Write	8
	Type V Feature	Allow ~				Can Write	8
	Type V Feature Export	Allow ~		Not specified	~	Can Write	7
	Type     Y       Feature       Export       Drivers & Extensions	Allow ~ Allow ~		Not specified Not specified	> >	Can Write	7
	Type     Y       Feature     Export       Drivers & Extensions     GIS Layer Manager	Allow ~ Allow ~ Allow ~		Not specified Not specified Not specified	> > >	Can Write	Ŷ

3. Click **Add**. The dialog to select one or more user groups appears. Make a selection and click **OK**.



Select these object types: Users or Groups			Object Types	
From the following locations:				
All Folders			Locations	
Federated:				
Local      All Sites	Specific Site		Sites	
Label: Contains	~		Find Now	
Description: Contains	~		Stop	
Select All Select No.	ne	_	OK Cancel	
Select All Select No	Texas	Folder	OK Cancel	~
Label:	Туре		Last Modified	~
Label:	Type Group	Folder Users Users	Last Modified 10/17/2018 12:03:1	^
Label: Device Administrators Mobile Client Users	Туре	Users	Last Modified	^
Label:	Type Group Group	Users Users	Last Modified 10/17/2018 12:03:1 10/17/2018 12:03:1	^
Label: Device Administrators Mobile Client Users Response Plan Designers	Type Group Group Group	Users Users Users	Last Modified 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1	^
Label: Device Administrators Mobile Client Users Response Plan Designers System	Type Group Group Group User	Users Users Users Users	Last Modified 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1	^
Label: Device Administrators Mobile Client Users Response Plan Designers System Users	Type Group Group Group User Group	Users Users Users Users Users	Last Modified 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1	
Label: Label: Label: Lovice Administrators Mobile Client Users Compose Plan Designers System Users Users Video Export Administrat	Type Group Group Group User Group Group	Users Users Users Users Users Users	Last Modified 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1 10/17/2018 12:03:1	

4. Highlight the user you want to set the permissions to and choose the feature and object from the list below to allow or deny read/write access.

## Selecting Type Permission Object for the System

Considering that there are more than one Type Permission objects available, you can choose which object to use for the system as shown below:

- 1. Click on **Global Settings** tab on the main toolbar.
- 2. Select **Security** from the list on the left pane.
- 3. Search for the available objects for the system.
- 4. Select the object whose type permissions you want to use.
- 5. Click OK.

## CONTROL CENTER 5.28 REFERENCE GUIDE



Error Reporting Languages     Authentication Mode Only Everbridge Control Cer     Federated: • Local  All Sites  Specific Site  Sites         • Local  All Sites  Specific Site  Sites         • Label:  Contains  Imes  Ime	🎡 Global Settings		Search Objects				×
Enterprise Settings       Login       From the following locations:       Image: Control of the following locations:         Error Reporting       Authentication Mode       Authentication Mode       Federated:       Image: Contains         SQL Reporting       Active Directory Cache       Label:       Contains       Image: Control of the following locations:         Styling       This updates users with the All users       Logid - All Sites       Select All       Select None       OK       Ca         This specifies the currently.       Priority 1 Type Permissions:       Select None       OK       Ca		A Security					Object Types
Error Reporting       Authentication Mode       Federated:       Image: State in the ima		Login	From the following locations:				
Security     Active Directory Cache     Label:     Contains     Find N       Styling     This updates users with the All users     Description:     Contains     Store       Logged-in users     This specifies the currently Priority 1 Type Permissions:     Select All     Select None     OK     Ca	Languages		Federated:	) Specific Site			Locations
Video Wall This updates users with the All users Logged-in users Type Permissions This specifies the currently Priority 1 Type Permissions: Label: Type Folder Last Modifie	SQL Reporting			~			Find Now
Type Permissions     Select All     Select None     OK     Ca       This specifies the currently -     Priority 1 Type Permissions     Label:     Type     Folder     Last Modifie		All users	Description: Contains	~			Stop
This specifies the currently     Type     Folder     Last Modifie			Select All Select N	one		ОК	Cancel
Priority 2 Type Permissions:					Folder		
		Priority 2 Type Permissions:	:				
							.::

As an administrator you can Allow/Deny Read and Write access to yourself and also set permission for other user groups.

## **Edit Type Permission**

An administrator can grant permissions to various users and user groups based on the environment setup and user requirements. Care must be taken where one user is part of many groups with different Read and Write permissions, as permission denied for a particular user in one group will override Allow permission on other groups, thereby restricting him from doing the necessary actions in that group.

User Group	Feature	Read	Write
Usr Grp 1	Global Settings	Not Specified	Not Specified
Usr Grp 2	Global Settings	Allow	Deny
Usr Grp <sub>3</sub>	Global Settings	Not Specified	Allow

The table below details a scenario explaining this.

Assuming the user is part of all 3 groups, he will be granted Read access to Global Settings Feature and denied Write access.

The access to a feature or object for a particular user is affected by different permissions in different groups. For example: If the user has read access to a feature, they will be allowed to see what settings have been configured for that feature. The write access gives them the ability to edit and



save changes to the configuration of that feature. If the user has no access to a feature, then they will not be able to view it.

Similarly, for objects, if the user has read access to an object type, they will be allowed to see object of that type and the object's property values. If a user has write access to an object type, they will be able to edit and save changes to instances of the object type. If they have no access to an object type, they will not see any instances of that object.

## Demonstration of UserType Permission

If user A is a member of Administrators and other user groups and is Allowed permission for License Manager feature in Administrator group and denied access in User group, he will have restricted access to License Manager The following screens demonstrates the scenario.

Ad	ministrators	Add			Sec	curity Principals	1977 			
Us	rs				A	dministrators	Add			
		Delete			U	sers	Delete			
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^	Feature					Feature				
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	Export	Allow ~		Allow	•	Export	Allow		Not specified	v
	GIS Layer Manager	Allow Y		Allow	v .	GIS Layer Manager	Allow Y		Not specified	۷
	Global Settings	Allow Y		Allow	•	Global Settings	Allow Y		Not specified	~
	Import	Allow		Allow	v	Import	Allow Y		Not specified	۷
					_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pineter and a second se	-	1000	

🎱 Global Settings 🦓 Search 🔹 🔢 Tile Layout Definitions 🚀 Drivers & Extensions 🥜 License Manager 🔩 Plan Manager 🧻 Object Designer 🛅 GIS Layer Manager 🌉 Service Monitor

The toolbar with allow access in one group and denied in the other will look as follows.

🥥 Global Settings 🦓 Search 🔹 🌐 Tile Layout Definitions 🚀 Drivers & Extensions 🍕 Plan Manager 🧻 Object Designer 🔯 GIS Layer Manager 🌉 Service Monitor

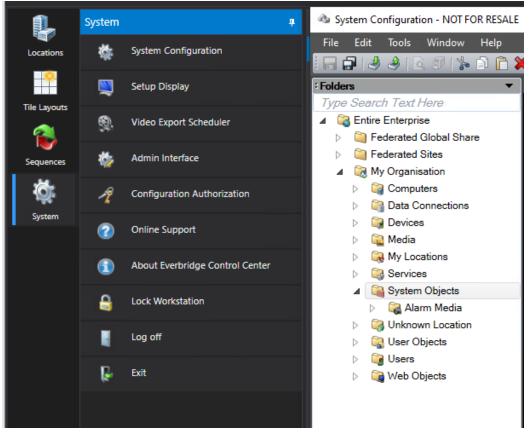
# **Control Center System Configuration Window**

Almost all configuration of Control Center is performed using the System Configuration window, also referred to as System Config.

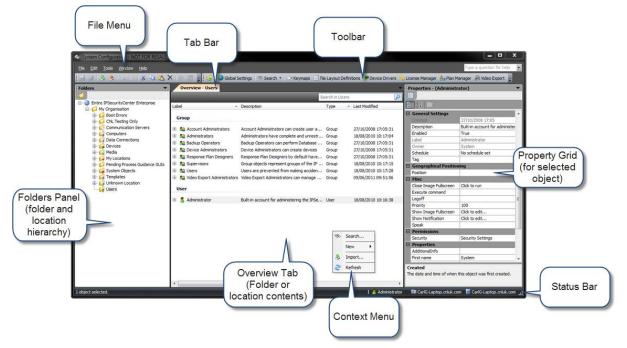
To open the System Configuration window, click **System > System Configuration** on the main menu.

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## CONTROL CENTER 5.28 REFERENCE GUIDE



This provides a Windows Explorer style view with a hierarchy of folders on the left, the contents of the folder in the middle, a property grid on the right for the currently selected object and various menus and toolbars.





## File Menu

The **File** menu provides a series of useful commands for use against a list of objects in a folder, location, and within the various designers. Most commands also have associated keyboard shortcuts, for example, you can use F<sub>2</sub> to edit the label of an object.

Use the **File** menu to access common commands such as save, print, close, and exit. You can also import and export Control Center objects to and from an XML file. In addition, you can view the recent response plans and graphical user interfaces that you viewed recently.

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ø	Save All	Ctrl+Shift+S					
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Q	Print Pre <u>v</u> iew						
8	Print	Ctrl+P					
	Close						
	Log Off						
	Recent Respon	se Plans 🔹 🕨					
	Recent Graphical User Interfaces						
	Exit						

## Edit

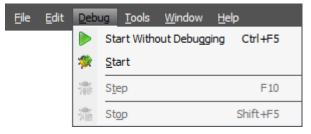
Use the **Edit** menu to cut, copy, paste, and delete commands which can be used to manipulate Control Center in the folder or location being viewed as well as working with components in the various designers. The play and stop buttons apply to starting and stopping response plans which can be run from System Configuration for testing purposes. You can also rename, and toggle object enabled status using the appropriate commands.



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		Stop	
	1	<u>R</u> ename	F2
		Edit Description	F3
		Toggle Enabled Sta	te F12

## Debug

The **Debug** menu only becomes visible when viewing the **Response Plan** editor. You can debug response plans to determine the logic if any issues arise.



## Tools

The **Tools** menu provides the option to refresh the contents of the **Overview** tab and a link to the **User Settings** dialog.



## Window

The **Window** menu enables you to close all tabs that are currently open in the System Configuration window except the **Overview** tab. Any unsaved items will prompt you to save before closing.





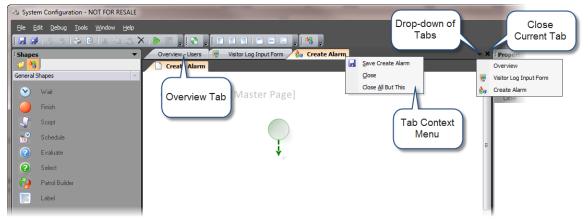
## Help

The Help menu provides access to the Control Center website which includes the support information. You can click About Control Center to view the version, copyright, and license information.



## Tab bar

The **Tab** bar in the System Configuration window shows which designers are currently open and a context menu on each tab offers save and close options. A small drop-down arrow on the right of the tab bar offers a drop-down of currently open tabs and the option to close the active tab. The **Overview** tab shows the contents of the currently selected folder and cannot be closed.

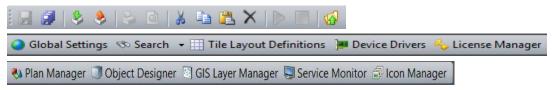


## Toolbar

The toolbar in the System Configuration window exposes easy access options to functionality based on the currently selected object(s) or the designer being used.

The toolbar provides common commands such as save, save all, import, export, print and cut/copy/paste. This toolbar also provides options to start and stop response plans which are only available when one or more response plans are selected.

The toolbar also provides access to key components of Control Center. The first button provides the option to navigate to the parent folder.





The following table provides a description of the toolbar items.

Global Settings	Provides core configuration of system features such as GIS, email settings, and so on.
Search	The search button is crucial to finding any object within the solution. This button offers a dropdown of two options to search and return a flat list of results or to search for an object and view the results in a dialog (see Object Designer> Search).
Tile Layout Definitions	Allows for the management of custom tile layout definitions.
Device Drivers	Manage all device drivers loaded into the system.
License Manager	View license allocation and usage, apply additional licenses, and replace existing licenses. See <u>Licensing Control Center</u> .
Plan Manager	View and stop and currently running Response Plans.
Object Designer	Manages custom object properties. For more information, see <u>Object Designer</u> .
GIS Layer Manager	Manages GIS layers that are used in scenes.
Service Monitor	Provides a view on the performance of services.
lcon Manager	Provides a standard icon set to choose from and also allows a custom icon set to be created.

# Configuring Control Center Icon Set

When using icon sets in Control Center, you can either

- use the icon sets provided in Control Center.
- create your own customized icon set. See <u>Creating a Customized Icon Set</u>.



Control Center is available with more than one icon set. You can configure the icon set you want Control Center to use. By default, when you first install or upgrade, Control Center uses **FontAwesomeLight**. The table below describes the different icon sets.

lconSet	Description
FontAwesomeLight (Default)	Font Awesome provides an icon set with a more modern appearance.
FontAwesomeDark	You can choose whether to use light or dark.
HighDetail	HighDetail provides an icon set with a more detailed appearance.

To configure Control Center to use a different icon set:

- 1. Go to System Configuration > Global Settings.
- 2. From Global Settings, select Enterprise Settings.
- 3. Scroll down to **UI Configuration**.
- 4. Configure the following:
  - **IconSet** This allows you to configure an icon set for your System Explorer.
  - **Secondary IconSet** This allows you to configure an icon set for System Configuration.

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Enterpr	ise Settings Configurati	on	
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Select the icon set you want from the drop-down list. The icon set does not have to be the same for **IconSet** and **Secondary IconSet**. For example, you can select FontAwesomeLight for **IconSet** and FontAwesomeDark for **Secondary IconSet**.

# **Customized Icon Set**

Control Center has a default icon set that can be used to represent alarms, system objects, locations and many others to make it more appealing and increasing the user experience and relevance of the object being used. We are now providing the user with the ability of creating a custom icon set, where the user has the capability to create his own icon set by importing the icons from various resources. Care must be taken to import only those icons sizes and types that are supported by the Control Center. A comprehensive list is as mentioned below:

lcon sizes (in pixel size) supported	File type supported
16x16	



24X24	
	Currently we support *.png type only, maximum size 1Mb
64x64	

The icons can be used anywhere within the Control Center setup. The user has the choice to select an icon from the default set or the custom set. This makes an excellent addition to the user capability, especially for those who wish to add a little customization to their application. It is perfect to be used on the local client-side instance or to be standardized by the administrator in the NOC and published to all sites to showcase a similar environment with a compelling user experience on all sites in the network. With this in mind, Control Center is now providing an icon set that can be easily crafted to suit unique user needs.

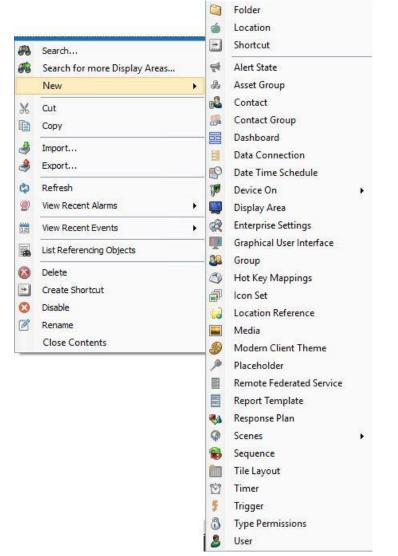
## Creating a Custom Icon Set

Creating a custom icon set is an extended functionality provided in the Control Center to the end users. The users can import icons from various online resources or repositories to create their own custom set.

To create an icon set, you need to:

- 1. Go to System Configuration > System Objects.
- Create an icon set object by right clicking on an empty space in the right window and select New > Icon Set. Name it appropriately.
- 3. Double click on the object to open the **Icon Set** editor window.
- 4. Add the icons from any reliable resources.
- 5. Save the icon set.

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## Adding Icons

To add icons:

- 1. Select the icon size you want to import from the **Image Size** drop down menu and click on the **Add Icons** tab on the top menu.
- 2. Browse to the location where the icons are stored and select one or more icons to be added.
- 3. Click **Open** to see the chosen icon/icons added to the custom set.

Icons of a particular size can also be added by clicking on **Upload** button available on the right side of the window. By default, when an icon is selected, all the existing sizes of the icon are displayed on the right. If the icon of a certain size is unavailable it is left blank.

It is possible to add an icon here only if an icon already exists in the set. If the icon of an intended size is present, then it will be added in the box on the right or if unavailable, it will be scaled to fit to the desired size.



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#### **Renaming an Icon/Icons**

To do this:

- 1. Select an icon you wish to rename.
- 2. In the **Selected Icon Details** on the right, click on the **Icon Name** box and give it a desired name.
- 3. Optionally, you can also specify keyword/keywords separated by a comma based on which it can be searched.
- 4. Save the icon set.

#### Deleting an Icon/icons:

- 1. Select an icon you wish to remove from the set.
- 2. Click on Remove Selected Icons tab in the top menu.
- 3. Save the icon set.

**Note**: If icons in use are deleted from the set, then a X will be displayed in place of it being used. Hence care should be taken before removing it from the list.

#### Searching for an Icon

Searching for a particular icon is challenging in an elaborate set. So, a search bar is provided to either search by icon name or by keywords, if specified during adding or renaming the Icon.



For example, if an alarm icon is named as **ambulance** and the keyword is specified as **emergency**, then searching for emergency would list all icons tagged to the keyword.

Default Collection (HighDetail)	-
cons	

#### Using the Icon Set

The Icon set can essentially be used to represent system objects such as GUI, alarm groups, response plans, alarms etc. or can be used to depict a location or a device. Objects can be represented by icons when it is being defined or can be modified later in the property window of the object. A complete set of icons available can be accessed by clicking on the Icon Manager tab in the top menu ribbon of the System Configuration.

Below are a couple of scenarios detailing the use of Icon set.

#### Scenario 1: Adding icons to new alarm type

An icon can be attached to a new alarm type in the Alarm Type wizard to make it visually appealing

and catchy. After entering a name and description to the alarm, you can click on button to open the Icon picker window. Search and select the desired icon and click **OK**.

Alarm Types Wiz	ard			×
Basic Informat	ion			
Label: Description:				
Priority:	Enabled     Image: Second			
lcon:	Manual Alarm			
		Next >	Car	ncel

Icons can be added to any object in a similar manner.



#### Scenario 2: Changing the icon of a location

If you wish to change the icon of a location, click on the location you wish to change the location and

go to properties window. Select the **Icon** property and click on to open the icon picker. Choose the icon for the location and select **OK** to save.

	General Setting	
	Created	11/21/2018 3:39 PM
	Description	The default location for the system
	Enabled	True
	Environment	Production
	Icon	alarmclock
	Label	Default
	Owner	System
	Tag	

# **Folders Panel**

The folders panel in **System Configuration** shows all the folder and locations in the solution in a tree structure. Selecting a folder will show the contents of that folder in the **Overview** tab. Folders can be expanded and collapsed in this view. Folders can also be rearranged by dragging and dropping a folder onto another to restructure the hierarchy.

This control also provides a context menu with options to search, modify the location, import/export, disable debugging on GUIs and VRPs and setup security policies.



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			Security Polic	y	₹4	Response Plans

### **Overview Pane**

The **Overview** pane shows all objects in the currently selected folder. Objects are the building blocks of a Control Center solution. An object can be a device, graphical user interface, tile layout, response plan and so on.





#### **Selecting Objects**

The Objects area displays the following columns for each object.

Label	The name of the object.
Description	A description of the object or how it is used.
Туре	The type of object.
Last Modified	The date on which the object was last changed.
Extra Information	Further information regarding the object, including warnings.

You can also use the following shortcut keys for changing the label and the description of an object:

- Press F2 to change an object's label.
- Press F<sub>3</sub> to change an object's description.

#### Working with Objects

You can make changes to objects by modifying their property settings. The properties are grouped under headings that you can expand and collapse. All objects have the General Settings group of properties. The other properties that are displayed depend on the type of the object.

To modify a property:

- 1. Click the property you want to change.
- 2. Select the appropriate value from the drop-down list or click the **Search** button (...) to search for the appropriate value.

**Note**: You can also double-click the property name to scroll through the values in alphabetical order. This is particularly useful when toggling between a pair of values, such as True and False.

Description	The description of the object as displayed in the Objects area.
Enabled	Enable or disable the object by setting to True or False.
Hidden	Set the Hidden attribute for the object to True or False.
Label	The label or name of the object as displayed in the Objects area.
Schedule	The Date/Time schedule for the object. Clicking the button opens the Search Objects dialog with the available Date/Time schedules.
Tag	The Tag (Text Property) of the object.
Security	The security and permission settings for the object.

The following properties grouped under General Settings are common to all objects.



Complex objects have a designer associated with them that enable you to specify the object fully. For example, GUI objects and response plans each have a designer associated with them.

You can access the designer for an object in one of the following ways:

- Double-click the object, or,
- Right-click the object and select **Edit** from the context menu.

Server	
🗉 🛃 test17server.cnluk.com	Server Computer with the IP hostname of TEST17SERVER.CNLUK.COM
Windows Client	
<ul> <li>test17server.cnluk.com</li> <li>Ø Events</li> </ul>	Client Computer with the IP hostname of TEST17SERVER.CNLUK.COM
🖉 Client log off	Event raised when this client logs off of from the system
Client log on	Event raised when this client logs onto the system
Client Notification Clicked	Event raised when a user logged into this client clicks on a notification.
🝌 Joystick Button Down	Fired when a joystick button is pressed down on a selected device.
🝌 Joystick Button Up	Fired when a joystick button is released on a selected device.
🗉 📑 Shortcuts	Shortcuts targeted against this object

Each object within the **Overview** tab can also be expanded to view any associated events and shortcuts to that object. To expand an object, click on the small '+' symbol to the left of the icon. Expanding the Event sub item will then show all associated events for the object.

#### **Reacting to Events**

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Viewing the available events within the **Overview** tab also provides context menu items for creating objects to react to any event. The screenshot below shows how to react to the **Client Log On** event.

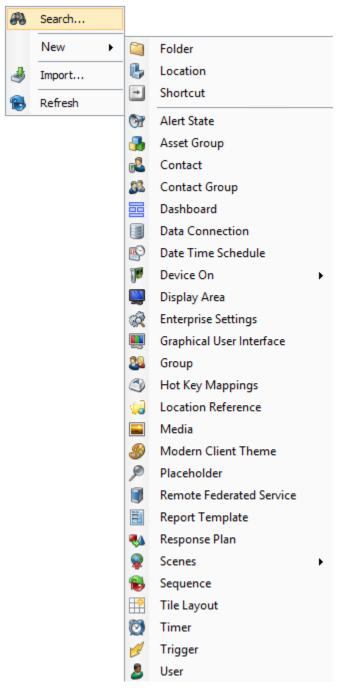
Training Door								
<ul> <li>B Door 11</li> <li>Ø Events</li> </ul>				Door for training se	erver	levice		Training Door
(B)				Raised when the o	nline s	tate o	f a device changes.	
68	Search			Raised when the st	ate o	fa doo	or changes.	
🛨 🖃 S	New	•		Shortcuts targeted	agair	st this	object	
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🗉 💋 Events			₹\$	Run Response Plan	•	-	Existing Plan	
💋 Ana	alytics					-	Create New Plan	

#### About Context Menu

The context menu in Control Center provides the ability to search, add new objects, import objects from an XML file or refresh the contents of the **Overview** tab.

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Using the **New** menu item, you can add any object to the Control Center solution except servers and Windows clients which are added automatically. Note that when selecting **New** > **Client Device On** or **New** > **Device On**, a Windows client or server must be selected because both client devices and regular devices require a host.





#### **Property Grid**

Selecting an object in the **Overview** tab displays its properties in the **Properties Grid** on the right of the System Configuration screen. The properties include the object definition, how it is set up, what it looks like, and what functions it can perform. The properties available depend on the object, except for the General Settings which are common to all objects. Modify the property settings to see the changes for the selected object.

If you select more than one object of the same type, then any changes you make to the properties affect all the selected objects. If you select more than one object of different types, there are no properties in common and no properties are displayed.

For some object types, additional fields can be added.

#### Status Bar

The status bar shows the number of selected objects in the **Overview** tab and shows the current user, client and server.



## **Understanding Control Center Objects**

Control Center is built in a very similar approach to OOP (Object Oriented Programming) where different objects with different properties and attributes are used to build up a solution. All the objects can be created and edited in the System Configuration window. Certain objects include an Editor, such as Report Designer, and are also accessible via the System Configuration window.

A full list of Control Center objects is as follows.

Object Name	Description
Action	Allows you to set the value of one or more properties and/or executing one or more functions on one or more objects of the same type.
Alarm Type	A single system-generated alarm type object provides a central point within the solution to configure All the different types of alarms in the system. Using the Alarm Editor, you can manage alarm types, alarm stack views, resolution types, activity types, and service levels.
Alert State	Provides the ability to apply formatting to UI components representing any other object in the system. Commonly used for alerting the user to an alarm activation on a device.
Client	Runs the Control Center Windows Client, which provides the front-end to Users. This is also used to perform most configuration of a Control Center solution.



Represents a client-side device such as a PTZ keyboard. Each client device must be associated with a Windows Client.
A Connection Manager provides the data conduit between Control Center with each of the connected sub-systems. A Connection Manager is automatically created when the Connection Manager service starts and communicates with that type of device as per the protocol defined in the manufacturer API.
Represents a contact in a Control Center solution. This is like a user with contact fields but without the ability to log in to Control Center.
Represents groups of contacts.
Provides a connection to a third-party database. Once the connection has been established, a SQL Management Studio style designer allows for viewing of the data schema. A series of Response Plans shapes allow for programmatic select, insert, updates and delete of data.
Provides the ability to specify when events may occur based on a repetitive cycle. This is commonly used for defining blocks of time, for example, Office Hours. Evaluation of a Data Time Schedule can then be made to determine alarm creation, for example, only create alarm outside of working hours.
Includes real-life edge device such as single camera or something more complex such as an access control server. Each device is reliant on a specific device driver to be loaded into the solution. The device will then expose any functionality that is available per the manufacturer SDK, wrapped by the Control Center device driver.
Provides a container for grouping tile layouts on a client. Display Windows are used to represent a section of the Windows desktop in size from a portion of one physical monitor to span monitors which are used to contain one or more Display Areas. The arrangement of Display Windows and Display Areas is held on the Client object and can be cloned between Clients.
Provides global, federated settings which, for instance allows you to save PTZ active behavior and object selection color information in the Global Settings > Enterprise Settings tab.
Folder objects are management containers for all types of Objects within Control Center and maybe structured to an unlimited depth and used to manage both Security Permissions and Policies.

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Graphical User Interface (GUI)	Allows customization of the Users visual experience by building controls that are subsequently displayed within Tile Layouts. Controls placed within a Graphical User Interface include basic controls such as buttons, labels, textboxes or more complex controls such as search control, Web viewer and so on.
Group	Contains User objects for the purposes of simplifying security management.
Hot Key Mappings	Displays the default set of system hot key mappings within the system that can be globally set across all clients that connect to the server. You can also modify the existing mapping and define additional shortcut keys for other areas in the system.
Location	Represents physical locations within the solution such as a region, city, campus, building, floor, room, and so on. A location is typically associated to a GUI and media to represent the map for that location or can be assigned geographical positioning information to be used with GIS mapping technology. A location then contains assets, such as devices and contacts, and other locations.
Media	Represents a range of files held within the solution, such as JPEG images for maps, PDF files for reports, and so on.
Thoma	Represents the theme available for the Modern Client. You can either customize the existing theme or create a new set of themes for the Modern Client.
Placeholder	Represents an end-point connected to a complex device such as an access control server. Each placeholder must specify the parent device such as an access control server and a unique identified called Device Data (for example, a door number). This object can then be used throughout the system to represent that end-point, for example, plotting a door on a map and using that placeholder (door) to identify a location and nearest cameras based on an event from the access control server.
Remote Federation Service	Provides a means to communicate alarm information between sites. Depending on the license type, you can unlock the Node and Hub functionality, where a Node site is configured to send alarms and a Hub site to receive alarms from the connected federated Node. Ensure that each federated installation of Control Center has specific licenses for Hub and Node.



Report Template	Provides a form-based designer for building templates based on a Data Connection which can then be used to generate PDF reports.
Response Plan / VRP	A Response Plan (Visual Response Plan or VRP) provides the framework for executing a process-based workflow. It provides the core mechanism for implementing a business logic within a solution. Response Plans can be executed from other objects in a solution such as from a Trigger, Alarm Types, or another Response Plan to automate specific user actions. Typically, response plans are used to automate user actions by raising events from a sub-system, for example to display a camera, handle alarms such as park or resolve alarms, display warning/informative notifications and so on. For more information, see <u>Response Plan Shapes</u> .
Scenes	Allows you to create a new scene geographic or a scene schematic.
Sequence	Allows one or more cameras to be encapsulated in a single object. The sequence contains one or more steps where each step determines the camera, dwell period, and PTZ position. When shown, the sequence will iterate through each step showing the specified camera for the specified dwell period. Sequences can be managed by the end user via the System Explorer control.
Shortcut	Represents any other object in the system to provide a duplicate object of that type with similar features and functionality as the source object.
Tile Layout	Provides a container for GUIs and Devices which can be shown within a Display Area. A Tile Layout adopts a definition which specifies the number of rows, columns, and cells which span any number of rows and columns. Tile Layouts can be managed by the end user via the System Explorer control.
Timer	Provides a source of periodic events that can be reacted to by Triggers.
Trigger	Provides a means of acting upon, or reacting to, an event occurring on an object (or objects) managed by the Control Center Server.
User	Represents an individual who has access to log into the Control Center Server.

## Understanding Device Connectivity

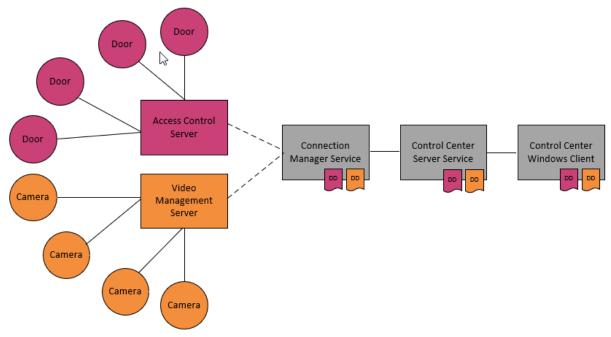
Devices are used in Control Center to represent physical systems inside Control Center.



Each type of device which is connected to Control Center requires a specific device driver written to encapsulate functionality exposed in the manufacturer SDK. The Control Center device driver will then enable a device of that type to be added and configured in Control Center.

The following diagram shows how communication to the various sub-systems is achieved using a series of Control Center components with the inclusion of device drivers for the relevant sub-systems (marked as DD for device driver).

Using the device driver, the Connection Manager will communicate with the different sub-systems which will in turn communicate back to the Control Center Server which then communicates with the Control Center Clients.



## **Radar and Video Monitoring System**

The Radar and video monitoring system is an integrated feature offered by Control Center to receive and display Radar information such as tracks, geofences, long range video and associated data within the application. It is an easy to use solution for receiving Radar information and displaying it on the map and processing the events that are being generated, to create alarms. Control Center is ideal for taking information from any Radar Subsystem and connected cameras for representing and processing within the Control Center which makes it suitable for use in distributed architectures.

The geofences and tracks from the Radar device can be displayed in a multi layered map interface and the video feed from the connected cameras can be displayed on single display window or a tiled layout to be able to monitor multiple tracks at the same time. Any camera can be chosen to be displayed on the tile layout for a live feed or can be played back from the recording for monitoring purposes.

In addition to displaying the tracks on a map, you can also classify the tracks by various criteria. By default, three classifications Friend, Foe and Unknown are made available within Control



Center when you create a Trail point Layer. Additional classifications can also be created by the administrator.

Geofences, which are a virtual perimeter of the actual geographic boundary, can also be represented on the map. Geofences can be predefined on a map in a connected subsystem that can then be imported to be used within the Control Center. Furthermore, alarms can be created from events that gets triggered when an object encroaches certain defined areas.

A Slew to Cue functionality has also been implemented that allows the target object to be selected and automatically followed using the nearest camera available.

## **Radar Architecture and Functioning**

The architecture diagram shown below is a visual representation of how the Radar and Video monitoring system works seamlessly within Control Center.

The Radar subsystem consists of one or more Radar devices which feed the radar information to the Radar Server. The data received is sent to the third-party Radar processor which then shares the information with the Connection Manager of Control Center to filter out the events triggered by the third-party processing unit.

Control Center Radar driver extracts the track and geofences information to be plotted on the map within the client application.

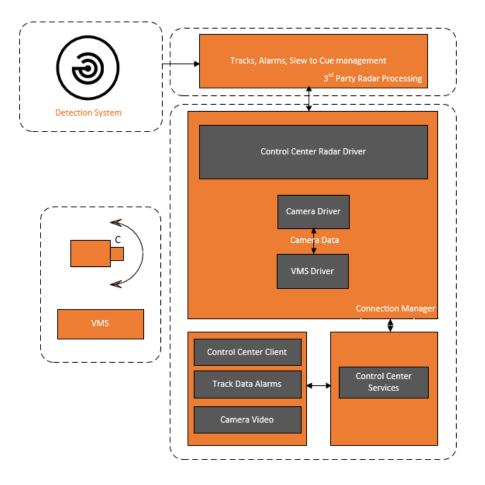
The third-party interface must be a passable platform which allows the user to create geofences and export it to be used within Control Center. It also needs to correlate with the track information received from the Radar device and trigger events which is then directed down into Control Center for creation of necessary alarms. The events that can be configured for various scenarios are as shown in the example below:

- Object Entering or Leaving the Geofence; for instance, when an object enters or leaves a defined area.
- Object Loitering around the Geofence; i.e. when an object has not remained in the actual perimeter of the geofence far too long.
- Object Approaching the Geofence; i.e. an object is moving in the direction of the geofence and is about to enter it.
- Device state changed: This event is raised when the online state of the device changes
- Crossed: The track has crossed the geofence area before the radar scan the area again.

When configurations are changed in the third party interface, the information is passed on to the Control Center Radar Driver and successively to Control Center to be used within the application.

#### CONTROL CENTER 5.28 REFERENCE GUIDE





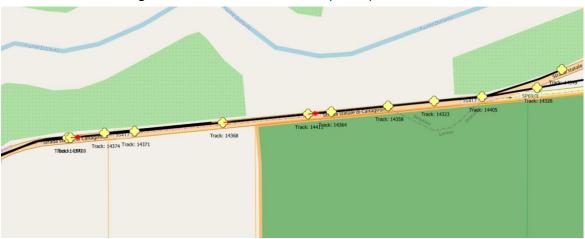


The Slew to Cue is controlled by the third-party Radar Processor and is kicked off when the Slew to Cue clicked event is triggered from a response plan configured within the client application. The Radar Processor will provide continuous updates about the polar co-ordinates of the target to the camera driver so that the camera can position itself and follow the target more closely.

The Video from cameras can be received through multiple interfaces either directly from a digital camera or through an encoder or via a VMS into Control Center. The video can be played live on a display area or played back from the recordings for the time chosen.

The Slew-to-Cue is executed by a third-party radar processor when an action is triggered from Control Center through a response plan. The manual control of the camera can be executed either directly against a camera or via a VMS. The manual command to the camera will always override the Slew to Cue action.

## Track Display



A classic radar surveillance device detects objects in its range and reports its polar co-ordinates to the radar server at regular intervals which is usually every few seconds.

Typically, the radar information will carry the following information:

- Unique track Id
- Speed of the object
- Heading
- Position of the object [Longitude and Latitude of the current position of the object]

A track for an object detected is established by the radar tracker by taking continuous updates of the same object from the radar system at regular intervals and plotting them on the map. A separate track is created for each target found within the range of the device. Upon clicking on a track, Track Info window opens up to display all information about the track. Note that the newly formed track will have no classification assigned to it and hence is displayed blank. By clicking on the down arrow of the classification field you will be able to see the available classifications for you to choose from. By default, there are three classifications; Friend, Foe and Unknown provided within the Control Center. The administrator can create more classification if requirement arises.



Track Info	×
Track: 80884	
Classification	
Track Info	
Range	17,781.17
Bearing	219.38
Heading	212.32
Speed	909.92
Latitude	51.1965350451815
Longitude	-0.715127248830077
Elevation	0.48
Last Update	6/6/2019 11:40:43 AM

Upon selection, the classification for the track will dynamically be applied and can be seen on the map.

**Note**: If any changes are made to the classification on the GIS Layer Manager, it will instantly reflect in the Track info window, but will not be dynamically applied on the map. You will have to unassign the current classification and reassign for it show up in the map.

There are two events made available in the map GUI:

- Trail Clicked
- Trail Double Clicked

A response plan can be configured to perform set actions when these any of these events occur.

#### Filtering the Track Events

Events from all devices within Control Center are gathered by the Connection Manager, filtered and passed on to the Rules engine for being used in collation of events and creating the alarms.

There are two events of interest which needs to be handled with caution.

- **TraceUpdated Event** This event is kicked off every time the device receives an update on the position of the target (which is approximately every second). If there are 50 tracks on the map and each triggering off an event every second will flood the Rules engine with loads of events which are deemed as futile and never going to be part of any alarm.
- **Orientation Changed Event** This event is initiated each time the camera is moved to follow the target object during the slew to cue action

These events are large in number and will essentially slow down other critical events trying to come through that needs to be addressed swiftly.

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In order to address this issue, a filtering mechanism can be implemented in the connection manager to filter all the unnecessary events from reaching the rules engine. This is not automated at the moment and needs to be customized.

To set the filters for the events, do the following:

- 1. Go to System Configuration > Services
- 2. Double click on the **Connection Manager** service to open the **Device Events** window
- Double click on one of the TraceUpdated Event or Orientation Changed Event to open the Event Filter window. The window will be populated with all the event details for the selected event.

Connection Manager	Default	Reset Clear
Device	DemoRadar 1	Reset Clear
Device Type	DemoRadar	Reset Clear
Event Name	TraceUpdatedEvent	Reset Clear

- 4. Validate the entries and click **OK**.
- 5. A filter will be created which can be seen by clicking on the **Filters** option in the toolbar and selecting **Show All Filters**.

				<b>S</b>
Connection Manager	Device Type	Device	Event	Properties
Default	DemoRadar	DemoRadar 1	TraceUpdatedEvent	0
		Ш		

Once the filter has been applied the events start to filter out from being passed on to the Rules Engine which are clearly marked with Red as shown in the figure below.

#### **Events before filtering**

Ŷ	6/4/2019 2:46:16 PM	DemoRadar	DemoRadar 1	TraceUpdatedEvent	1
Ŷ	6/4/2019 2:46:16 PM	DemoRadar	DemoRadar 1	TraceUpdatedEvent	1



#### Events after the filter has been applied

5	6/4/2019 2:46:39 PM	DemoRadar	DemoRadar 1	TraceUpdatedEvent	1
5	6/4/2019 2:46:39 PM	DemoRadar	DemoRadar 1	TraceUpdatedEvent	1

This will remarkably reduce the overhead on the Rules engine giving way for other critical events to take precedence.

## Geofences

A Geofence is a virtual perimeter of the actual geographic boundary, drawn on the map that enables the application to trigger an event when an object enters or leaves a defined area. Geofences are defined in a connected subsystem and is imported into Control Center by the driver to be rendered on the map. A Geofence is rendered on the map by creating a separate Geofence Layer.

Bing Maps Layer	Layer Type	Geofences
Geofences Layer	Layer Name	Geofences Layer
Geofences Layer line	This layer enables the configu	ration of displaying geofence assets within IPSecurityCenter. This requires that IPSecurityCenter version 5.10 or later is running on all installations that Federate with this system.
OSM Layer	Device	
Radar layer	Device Type	🔮 Demo Geofence Area 📖
Trail Points Layer	Devices to Display	Select All Geofence Devices
WHS Map Layer	Style Disabled Device Opacity Styling Template	Geofence styling
Track: 14524		Radar-1 Track: 119 Tracking-Camera-3 100-200 Track: 14403 10R-281
	Tracking-Camer	

Each of the blue circular area defines a geofence. Geofences can be of three types:

- 1. Geofence area: Area can have three different shapes
  - o Square
  - Round
  - o Rectangle
- 2. Geofence Line

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#### 3. Geofence Point

**Note 1**: Geofence is a Control Center Version 5.10 onwards only. In a federated environment if the NOC is running a client of version 5.10 and is publishing the GIS layer Manager to all sites which are on version 5.10 or older, all layers will be published as normal except the Geofence layer.

**Note 2**: From Version 5.10 onwards the Trail Point Layer includes the classification details for tracks rendered on the map. In a federated environment when the central hub is publishing the GIS Layer Manager, the classification details will be blocked, while other details are published as normal.

#### **Disabled Geofences**

Geofences can be disabled temporarily and the area defined for the Geofence can be ceased from being monitored for the duration chosen in the Date Time schedule or until it is enabled. The disabled Geofence can either be shown as normal, made transparent to distinguish from the enabled ones or completely hidden from the map. A Style field called Disabled Device Opacity in the Geofence layer which when set to 100% will show the Geofence as normal and on set to 0% will completely hide from the map.



Image: Section of the sec

Sliding to a number in between will make it transparent to the level selected.

Geofences can also be customized by creating a style and applying it to the Geofence by selecting the style template here.

#### **Events Triggering the Alarms**

There are several events available to be included within an alarm type for creating alarms. The Geofence is an area of interest and any object or person intruding the area, needs to be monitored and relevant alarms raised to alert the security personnel.

GIS Geofence



🔯 Geofence-1 ⊡ 💅 Events	A geofence configured to represent an area within the GIS Tracking System
💋 Approach	Track is approaching the zone
💋 Breach	Track has entered the geofenced area
💋 Crossed	Track has crossed the geofenced area
💋 Device State Changed	Raised when the online state of a device changes.
💋 Exit	Track has exited the geofence area
💋 Loiter	The track has remained within a given zone for too long

### Styling of Geofences

Geofence can be styled to increase visual appeal and enhance user experience. You can also distinguish between Geofences by styling them differently based on their threat levels so that the operator knows which ones to concentrate on for monitoring.

#### Creating Style for the Geofences

- Go to System Configuration. Right click in the center pane and select New > Object Style Template to create a new Styling object and name it appropriately
- 2. Double click on the styling object to open the **Geofence Styling** window. If you do not already have a style defined, this window appears blank.
- 3. Click on the **Add** button on the bottom of the left pane. A new styling sheet appears on the right.

la Information					
	Styling Geofence				
Description Styling geofence Area					
ice Type	🐣 Demo Geofence Area		]		
	_				_
Name	Y	Value			Y
Line Width					2 📫
Line Style		Solid			*
Line Color		Blue			•
Line Opacity				0.5	
Fill Color		Orchid			•
Fill Opacity			-	0.5	
	le Information cription ce Type Name Line Width Line Style Line Color	Information Styling Geofence Styling geofence Area Ce Type Demo Geofence Area Name Line Width Line Style Line Color Line Opacity Fill Color	le Information styling Geofence cription Styling geofence Area ce Type Demo Geofence Area Name Value Line Width Line Style Solid Line Color Solid Line Opacity Fill Color Orchid	le Information styling Geofence cription Styling geofence Area ce Type Demo Geofence Area Name Value Line Width Line Style Solid Line Color Solid Line Opacity Fill Color	le Information l Styling Geofence cription Styling geofence Area ce Type Demo Geofence Area Name Value Line Width Line Style Line Color Line Opacity 0.5 Fill Color

- 4. Enter an appropriate name for the style sheet
- 5. Enter a little description about the device or style you are working on
- 6. Select the **Device Type** by clicking on the button against the **Device Type** parameter and click **OK**.
- 7. Select the following styling parameters for the Geofence as shown in the table below:

Name	Value
	Width of the line surrounding the perimeter of the Geofence.
Line Style	Style of the line surrounding the Geofence. There are six options available from the drop-down menu to choose from.

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Line color	Color of the line surrounding the Geofence. You can choose the color from the palette which is shown by clicking on the field.
Line Opacity	Opacity of the line. o if hidden and 1 if visible. Sliding between 0 and 1 will set the transparency to the chosen level.
	Color that fills the Geofence area. You can choose the color from the palette which is shown by clicking on the field.
Fill Opacity	Opacity of the fill color of the Geofence area. o if hidden and 1 if visible. Sliding between 0 and 1 will set the transparency to the level chosen.

8. Save the **Geofence Style** to see the **Style** listed in the left pane.

#### Applying Style for Geofences

To apply a style to a Geofence, do the following:

- 1. Go to System Configuration and click on GIS Layer Manager in the tool bar to open the Layer Manager Window
- 2. Select the **Geofence Layer** you want to apply the styling on.
- 3. Click on the 🕒 button against the **Styling Template** to select the template for the chosen layer.
- 4. Save the Layer Manager.
- 5. Refresh the scene to view the applied changes.

#### Date Time Schedule for Geofences

Monitoring of Geofences can be made easy by supervising only the critical areas at the time it is needed and hiding the rest from the scene. The display of the Geofences on the scene can be automated by scheduling the date and time for it to be in the enabled state and setting the Opacity accordingly.

In scenarios where, certain areas can be excluded from being monitored during certain time of the day/night as it poses little or no risk can be programmed in the Date Time Schedule Object.

#### Setting Date Time Schedule

To Set the Date Time Schedule for a Geofence, do the following:

- 1. Go to **System Configuration** > **System Objects**.
- 2. Right click in the center pane and select **New** > **Date Time Schedule**. A new **Date Time Schedule** object is created.
- 3. Double click on the object to open the **Date Time Schedule** Window.



- 4. Select the time interval you want the Geofence to be enabled for. For example: 9.00 9.10, 9.20 9.30, 9.40 10.00
- 5. Save the Date Time Schedule.
- 6. Configure a response plan to enable and disable the Geofences.
- 7. Go to the **Date Time Schedule** object and expand to see the events. Date/Time Schedule

🖃 🚳 Date/Time in Schedule	Date/Time schedules are used to specify when object	Date/Time Schedule	6/3/2019 3:40:22 PM
🖃 💋 Events			
🍎 Date/Time Status Change	Event raised when this date/time scheduled changes $\ldots$		
🗄 📑 Shortcuts	Shortcuts targeted against this object		

8. Right click on the **Date/Time Status Schedule** > **React To Event** > **Run Response Plan** > **Existing Plan** and choose the response plan created in step 6.

You will notice that the Geofence will be enabled for the selected time frame and is visible on the scene and is in disabled state and either displayed transparent or completely hidden from the scene as configured.

#### Alarms on Encroaching the Geofence

As seen in the previous sections, we are aware that Control Center is capable of plotting the Geofences and gathering tracks from a radar device and displaying them on the map. The information about tracks is gathered periodically and dynamically updated on the map. The user can now see where the target object is heading and raise appropriate events which can then be included in the alarm types to alert the operator.

The main events are as listed below:

- Approaching: Object approaching the defined zone
- Device State Changed: Alerts when the device goes offline
- Entering: When the target object has entered the Geofence
- **Exiting**: When the target object has exited the Geofence
- Loitering: When the target has entered the Geofence and been in the area for too long
- Crossed: When the object has crossed the Geofence area before the radar could track it

When any of these events occur and is part of the alarm type defined within Control Center, then an alarm is raised. You can also configure an alert state to change the color of the Geofence when an event occurs and roll back to normal when another event occurs to normalize the situation.

For example: When an object enters the Geofence, Entering event is initiated and the Geofence changes to the color configured in the Alert state and starts to blink to grab the attention. An alarm is also generated in the alarm stack.

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The operator can also choose to Slew to Cue and assign a camera to follow the object. When the target object makes its way out of the Geofence, an Exiting event is triggered, and the alert state is dismissed. The Geofence is restored to its default color



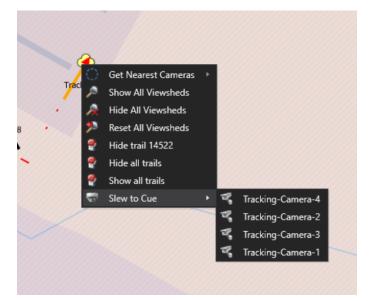
## Slew to Cue

Slew to Cue is the terminology used to describe the process of integrating the radar device with the PTZ camera to send coordinates of the target object and instructions to the camera and tell where it needs to point. This process is designed to detect the target and pinpoint its position and continuously transmit the information to the PTZ camera for it to follow the object.

If an object has been detected within a geofence area and the operator needs to take a closer look or follow to make sure that it is not posing any danger and safely exits out of the defined area, he can select the Slew to Cue function by right clicking on the track that needs to be followed, select Slew to Cue and the closest camera to follow the target. This functionality is further extended during commissioning by defining the Slew to Cue clicked event in a response plan to take necessary action.

When the operator selects the camera to follow the response plan is fired which sends the instruction to the Radar Watch driver which in turn guides the Camera driver to send commands to move the camera in view of the target.





Currently, the Slew to Cue action is manually driven by the operator which fires a response plan for further actions.

**Note**: The response plan must also contain an instruction to stop the Slew to Cue action as it is not yet made available in the context menu

#### Dynamic Viewsheds with Base azimuth Offset

When Slew to cue action is triggered the camera needs to position itself repeatedly to follow the target object from the co-ordinates provided by the Radar Watch Driver. So, the object's co-ordinates need to be seen from the camera's perspective as the originator of the scene. The Radar Processor transforms the real co-ordinates to the view co-ordinates that are relative to the positioning of the camera and direction. To derive a camera position, you need:

- The exact position of the camera
- The camera must have a reference point to True North
- Elevation of the camera

The Azimuth offset refers to the rotation of the camera around a vertical axis.

For example: In the picture below if true North is considered as Zero degrees, East will be 90°, South 180° and west 270°.

Ν

Е		W
	s	
	3	



The camera calibrations are done during installation and the reference point is set to True North. The angle that camera needs to look at during slew to cue action is calculated based on these offset values.

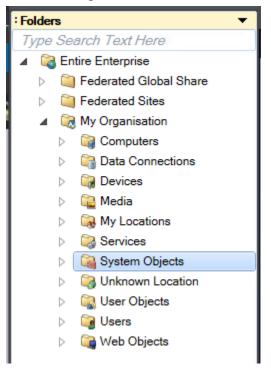
The viewshed of the camera is dynamically adjusted by the Radar Watch which receives the receives the exact co-ordinates of the target object and calculates the distance of the object from the camera and sets the range for camera to be able to view the object.



## **Control Center Objects**

The Control Center installer creates a new database if an existing Pacific database is not found. When the server first starts up, it creates several default objects in case they do not already exist. Some of these are fundamental to being able to use the solution, such as a default user account, and others are more useful in accelerating the building of a solution, such as a series of default folders. The default objects which are created by default are as follows.

The following folder structure is created when the server starts for the first time.



Some folders then include default objects as discussed below. Other folders are blank and should be used for containing newly created objects. The use of folders is essential to keeping an organized solution.

Objects created automatically by the server cannot be deleted and can often be edited on a limited basis.

## Computers

All servers and Windows clients are created in this folder. The server running Control Center will automatically create a Server object for itself upon load. The name of the server will assume the host name of the server machine. If there are insufficient licenses available for the server (this may occur when starting a server on an existing database) then the server will fail to start, and a message will be entered in the Event Viewer.



Equally, when a client first logs into a server, then the server will create a Windows Client object for the client with the same label as the host name of the of PC. If there are insufficient client licenses available when the client is added, then the client object will be created as disabled and any user will not be able to log into Control Center using that client until additional licenses have been applied. Alternatively, another client can be disabled, and the new client enabled.

Folders 🔻	Overview - Computers				
Type Search Text Here				Search in Computers	P
	Label Alarm Types Server	Description	Туре ^	Last Modified	Extra Informatio
My Organisation     Grouputers     Grouputers     Grouputers	E P-SR 19-SQL 17-1. dev. cnluk.com  Audit Server	Server with the IP hostname of P-SR 19-SQL 17-1.dev	Alarm Types Server	10/5/2020 12:46:27 PM	
<ul> <li>Devices</li> <li>Devices</li> <li>Media</li> <li>My Locations</li> </ul>	Ranger Server     Connection Manager Server	Server with the IP hostname of P-SR19-SQL17-1.dev	Audit Server	10/5/2020 12:46:26 PM	
<ul> <li>Services</li> <li>System Objects</li> </ul>	R. P-SR 19-SQL 17-1.dev.cnluk.com [Default]     Federated Server	Connection Manager instance 'Default' running on th	Connection Manager Server	10/5/2020 12:46:28 PM	
<ul> <li>▷ Q Unknown Location</li> <li>▷ Q User Objects</li> <li>▷ Q Users</li> </ul>	E. P-SR 19-SQL 17-1. dev. cnluk.com     Geographic Information Server	Server with the IP hostname of P-SR19-SQL17-1.dev	Federated Server	10/5/2020 12:46:29 PM	
▷ 🛛 🏹 Web Objects	P-SR 19-SQL 17-1.dev.cnluk.com      Notification Server	Server with the IP hostname of P-SR19-SQL17-1.dev	Geographic Information Se	10/5/2020 12:46:27 PM	
	Rules Engine Server	Server with the IP hostname of P-SR19-SQL17-1.dev	Notification Server	10/5/2020 12:46:24 PM	
		Server with the IP hostname of P-SR19-SQL17-1.dev	Rules Engine Server	10/5/2020 12:46:27 PM	
	Server	Server with the IP hostname of P-SR19-SQL17-1.dev	Security Server	10/5/2020 12:46:27 PM	
	☑ ☑ P-SR 19-SQL 17-1. dev.cnluk.com Video Export Server	Server Computer with the IP hostname of P-SR19-SQ	Server	10/5/2020 12:45:58 PM	
	Generation     Generation	Server with the IP hostname of P-SR19-SQL17-1.dev	Video Export Server	10/5/2020 12:46:27 PM	
	Windows Cache     P-Win 10-2.dev.cnluk.com	Client Computer with the IP hostname of P-WIN10-2	Windows Client	10/5/2020 12:50:11 PM	

Additionally, a server object is created for every service that could be deployed on a separate server. However, only the Server objects consume server license points.

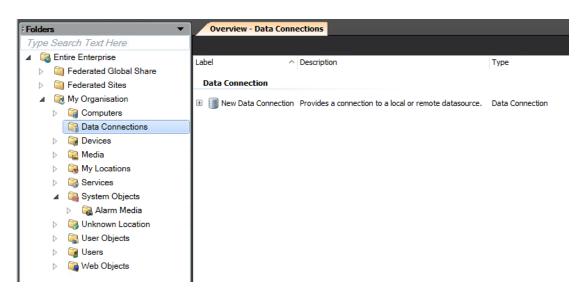
## **Data Connections**

The Data Connections folder contains all data connections created to external databases. By default, an Online State Data Connection is created, which is used for logging all device state changes and users for reporting against device health in the Admin Interface.

In addition, the Data Connections folder is checked when restoring an existing solution database as any failed data connections will show as enabled.

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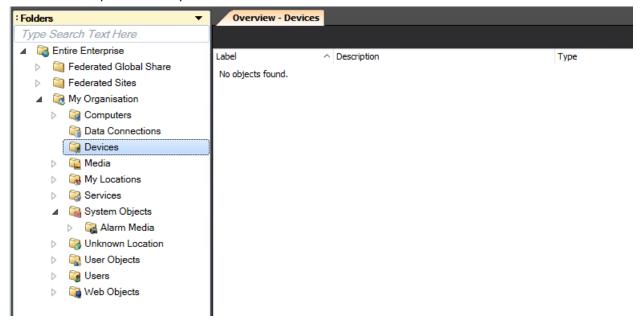




## Devices

Even though devices are not available by default, all devices that are created in the solution are added into the Devices folder. Typically, extra folders are added in this section to differentiate between different types of devices. Any number of folders with any depth of hierarchy can be used to best organize objects in Control Center.

Objects can also be moved between folders by dragging and dropping one or more objects in the System Configuration window. Cameras for example are usually dragged from this folder into the relevant locations once they are created. Alternatively, shortcuts can be created and placed in the locations instead, which provides the ability to reference a camera in more than one location where location floor plans overlap for instance.





## **Swapping and Replacing Devices**

Device Manager allows you to swap and replace devices without having to reconfigure the dependencies for the new devices.

ecurityCenter's Device Manager allows you to manipulate devices with	out needing to remap or recor	figure them.			
Replace				Swap Devices	
Replace a device with any obt e you have found your existing device, use the search tab to find, drag want to re	ind drop the new device along	side your existing device to indicate that you	Once you have found your en	Swap devices which are under the same isting device, drag and drop it in the same tre	parent device. e, alongside the device you want to swap it with.
sting Device			•	Search Dependencies	
Server 1		Drag device or click to s	earch 🔎	P Training	
Camera 10 on Video Server on Training Server 1	Swap	🕞 🤏 Camera 9 on Video Server on Tr	aining Server 1	Camera 81 on Video	Server on Training Server 1
Camera 100 on Video Server on Training Server 1	Swap	Camera 82 on Video Server on T	Training Server 1		Server on Training Server 1
Camera 101 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1
Camera 102 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1
Camera 103 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1
Camera 104 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1
Camera 105 on Video Server on Training Server 1		Drag device or click to :	search 🔎		Server on Training Server 1 Server on Training Server 1
Camera 106 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1 Server on Training Server 1
Camera 107 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1 Server on Training Server 1
Camera 108 on Video Server on Training Server 1		Drag device or click to	search 🔎		Server on Training Server 1
🕞 🤻 Camera 109 on Video Server on Training Server 1		Drag device or click to	search 🔎	Camera 90 on Video	

You can:

- Swap individual devices. For example, two cameras may be mis-wired in your subsystem and you want to swap them around.
- Replace existing devices with new devices. For example, you may want to replace some end of life cameras with new cameras.
- View device dependencies. For example, any sequences that the existing device is part of.

A Type Permission, Device Manager, allows you to restrict access to the Device Manager.

- You need Read access to view device dependencies but not perform any changes to existing devices.
- You must have Write access to the devices you want to commit changes to.

The following table describes how the configuration information is updated when you swap or replace devices using Device Manager.

Dependencies	Supported	Description
Tile Layouts	YAS	The new device is part of the same tile layouts as the original device.



		-
Sequences	Yes	The new device is part of the same sequences as the original device.
Scenes	Yes	The new device is added to the same scenes that the original device was added to.
GUIs	Yes	Any GUIs configured with the original device now apply to the new device
Shortcuts	Yes	The shortcuts to the original device now resolve to the new device.
GIS Layers	Yes	The new device is part of the same GIS layers as the original device.
Placeholders	Yes	Any placeholders configured for the original device now apply to the new device.
Addon references	Yes	Any addon references applied to the original device now apply to the new device.
Asset groups	Yes	The new device is now in the same asset groups as the original device.
Visible Object Mappings	Yes	The new device now uses the same visible object mappings as the original device.
Video export schedules	No	Video export schedules are ignored. You must change your export schedule after you have swapped or replaced devices, as existing export requests may fail after swapping or replacing devices.
Response Plans	No	If the existing device you want to replace is configured in a response plan, then you cannot replace that device. You must manually remove the existing device from the response plan first.
Alarms	No	Any alarms that are configured for the original device are not applied to the new device. The existing alarms are not deleted but you must manually configure the alarms for the new device.
Triggers	No	You must manually configure triggers for your new device.



Alarm type definitions	No	You must manually configure alarm type definitions for your new device.
Correlated alarm types	No	You must manually configure correlated alarm types for your new device.
Alarm type modifiers	No	You must manually configure alarm type modifiers for your new device.
Alert state objects	No	You must manually configure alert state objects for your new device.

To do this:

- 1. Go to System Configuration > Entire Enterprise > My Organization > System Objects.
- 2. Select the **Device Manager** tab. Alternatively, you can right-click on the device you want to replace and select **Device Manager**.
- 3. In **Existing Device**, search for the device you want to swap or replace. The device and all its connected devices display. **Note**: Searching for a server object shows all directly connected devices under that object.
- Select Dependencies to see how your existing device is configured. This allows you to see the configuration information that will be updated when you replace or swap the devices. To swap devices:

In **Existing Devic**e, within the list of connected devices, drag one device alongside another to swap the devices around.

Exis	Training Server 1	
▲	Drag device or click to search 🔎	
	Camera 10 on Video Server on Training Server 1	)*
	🕞 📽 Camera 100 on Video Server on Training Server 1 📋 📥 Swap	)×

#### To replace devices:

- a. Select **Search** and enter the name of the new devices.
- b. Drag the new devices from the **Search** tab alongside the device you want to replace in **Existing Device**.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



Existing Device	Search Dependencies
Training Server 1  Drag device or click to search	
Camera 10 on Video Server on Training Server 1	▲ SeVIScope Server 1
Camera 100 on Video Server on Training Server 1 Drag device or click to search 🔎	SB GSC TestLab 1
	GB GSC TestLab 2

- 5. Select **Dependencies** to see how your device configuration will be updated when you replace or swap the devices.
- 6. Select **Rename Devices** if you want the label of the existing device to be renamed with the label of the replacement or swapped device. For example, you may have a camera labelled **A1** and you want to replace camera **A1** for a camera labelled **A2**. If you want:
  - Camera A1 to be relabelled A2, select the Rename Devices box.
  - Camera A1 to keep the label A1, leave the Renames Devices box deselected.
- 7. If you want your existing device to be deleted, once the device has been replaced or

swapped with another, select  $\boxed{\ensuremath{\mathbb{Z}}}$  next to  $\ensuremath{^{11}}$  .

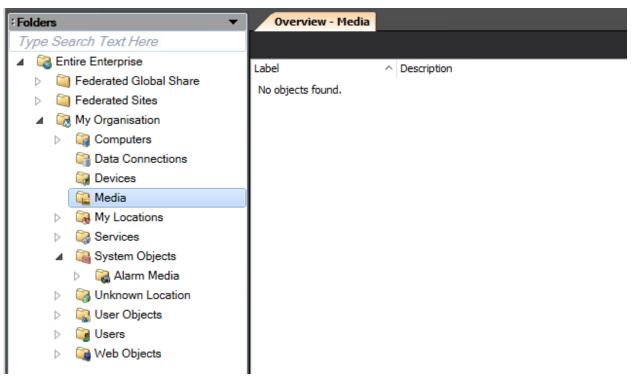
- 8. Select **Continue**. The **Summary** page describes all the dependencies and/or deletions for the devices you have selected.
- 9. If you want to make changes, either:
  - o Select Back to return to the previous screen, or
  - click away, make any changes required to your device dependencies, and then return to Device Manager.
- 10. If you are happy that the summary information is correct, select **Confirm** to commit your changes.

### Media

The Media folder does not contain any objects by default, however you must use this folder to store any media files within the solution. This may include images for maps and floor plans or generated reports.

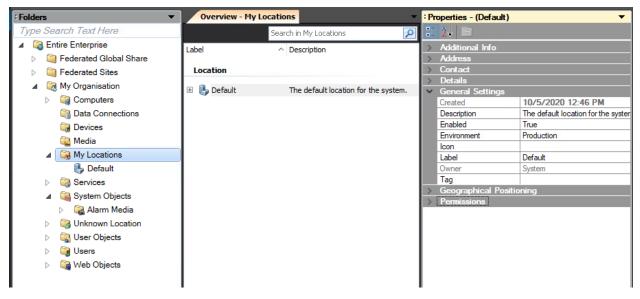
A copy of the file is held in the Control Center configuration database. However, as this may consume most of your disk space, an alternative to storing floor plans in Control Center is to reference images on a network drive that can be used in any maps (Default GUI for a Location) as part of the solution.

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## **My Locations**

By default, a location called Default is available when you access the Control Center Client for the first time. Rename the default location and ensure that it appears as the top-most location in the Locations hierarchy. By default, a Geographic Scene is created and associated with the default location. The default scene uses the Open Street Map layer to show the World map. Always create all locations in this folder. Typically, you have a single top-level location and then several locations below that. The System Explorer references the top-level location and show all locations and assets within that location.





#### Default Icons per Location Type

Each Location Type in Control Center includes a specific default icon for that location type to assist visualization of the location types when they are plotted on a scene.

Currently, you cannot amend the default icons, however you can replace a default icon with a custom icon.

The default icons will depend upon which icon set is selected in **Global Settings** > **Styling**.

**Note**: A commissioning user can also specify default colors for point plotting and to specify which map zoom level settings will show or hide various Location Types.

#### Time Zone Support for Locations

Using the Time Zone property in Locations, you can indicate the Time Zone of the location.

	-	
: Pn	operties - (1 - Other)	•
	2↓ 🖻	
⊿	Additional Info Notes Special Considerations	
⊿	Address Address 1 Address 2 Address 3 Country Country Postal Code Postal Town Time Zone	
4	Contact Fax Number Internal Dialing Number Phone Number Radio Channel Details	(None) (UTC-12:00) International Da (UTC-11:00) Coordinated Un (UTC-10:00) Hawaii (UTC-09:00) Alaska (UTC-08:00) Baja California (UTC-08:00) Pacific Time (U!⊻

The Time Zone property in Alarm Stacks enables you to show the time when an Alarm was created, which is local to the Location that the Alarm is attached to.

This property is also available to commissioning users in the scripting interface.

#### Services

The Services folder contains all objects representing the various Control Center services running within the solution. This feature is useful to directly interact with the services from within Control Center.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



Folders 🔻	Overview - Services					-
Type Search Text Here				Search in Servio	es 🛛	<b>0</b>
<ul> <li>Entire Enterprise</li> <li>Federated Global Share</li> <li>Federated Sites</li> </ul>	Label ^	Description	Туре ^	Last Modified	Extra Information	
<ul> <li>✓ Generation</li> </ul>	Alarm Types Service  Connection Manager Service	Alarm Types Service	Alarm Types Service	10/5/2020 12:46:26 PM		
<ul> <li>▷ iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii</li></ul>		Connection Manager Instance 'Default'	Connection Manager Service	10/5/2020 12:46:26 PM		
Image: Services       Imag	Core Service      Federated Service	Core Service	Core Service	10/5/2020 12:45:57 PM		
<ul> <li>Image: State of the state of th</li></ul>	Federated Service     Geographic Information Service	Federated Service	Federated Service	10/5/2020 12:46:27 PM		
<ul> <li>Gens</li> <li>Web Objects</li> </ul>	Geographic Information Service      Notification Service	Geographic Information Service	Geographic Information Se	10/5/2020 12:46:26 PM		
		Notification Service	Notification Service	10/5/2020 12:46:21 PM		
		Rules Engine Service	Rules Engine Service	10/5/2020 12:46:26 PM		
		Security Service	Security Service	10/5/2020 12:46:26 PM		
	🗷  Wideo Export Service	Video Export Service	Video Export Service	10/5/2020 12:46:26 PM		

## System Objects

The System Objects folder contains core objects which are integral to a Control Center solution. The GUIs created in this folder are useful throughout the system. By default, the following System Objects are available in the system:

Objects	Description
Alarm Media	Includes the snapshots of handled alarm types.
Alarm Types	Includes a wizard for configuring alarm types and alarm stack views.
Dashboard	<ul> <li>Displays the default system dashboard that is displayed on the</li> <li>Overview page by default. The following gadgets are displayed with their respective data: <ul> <li>Core Server</li> <li>Device States by Device Type</li> <li>Alarms by Alarm Type</li> <li>Device States</li> <li>Alarms by State</li> <li>Device State</li> </ul> </li> </ul>
Date/Time Schedule	By default, the following Date/Time Schedules are available in this folder: • 24 x 7 Allow – The default schedule used for all objects.



	<ul> <li>Alarm Maintenance – The schedule used for alarm maintenance task in Control Center.</li> <li>System Maintenance – The schedule used for maintenance tasks in Control Center.</li> </ul>
Display Area	<ul> <li>Includes the following system display areas:</li> <li>System Alarm Stack – Displays the lower display area.</li> <li>System Left – Displays the left-hand side display area.</li> <li>System Main – Displays the main display area.</li> <li>System Main Right – Displays the main right display area.</li> <li>System Popup – Displays the Popup display area.</li> <li>System Right – Displays the right-hand side display area.</li> </ul>
Enterprise Settings	The default enterprise settings for the local system which includes the information saved in the Global Settings > Enterprise Settings tab.
Graphical User Interface (GUI)	<ul> <li>Includes the following default GUIs:</li> <li>Administrator Interface – Contains the ribbon bar GUI control and is automatically shown in the default display window. You can access it by clicking the Control Center button. Note that no configuration is required for this UI.</li> <li>Alarm Stack – Contains the Alarm Stack grid GUI control, which automatically shows alarms based on the views configured in the system. The Alarm Stack GUI must be configured within the user interface.</li> <li>Main Menu – Includes the main items on the menu for configuring the Custom Menu items property on the ribbon GUI control. No further configuration is required to display the GUI however; you can show the main menu by setting the Interactivity Mode property on the Windows Client object in System Configuration window &gt; Computers.</li> <li>Map – Contains a map control that is used as the standard map surface. Use this map when changing the location in the System Explorer. Additionally, you can configure the map to react to user actions. For more information, see Mapping.</li> <li>System Explorer – Contains the System Explorer GUI control. By default, appears on the left of the default display window.</li> </ul>



	The System Explorer GUI must be configured to specify the base location and other properties. No further configuration is required to display the GUI. However, the System Explorer can be shown by setting the Interactivity Mode property on the Windows Client object.		
Hot Key Mappings	Displays the default set of system hot key mappings within the system that can be globally set across all clients that connect to the server. You can also modify the existing mapping and define additional shortcut keys for other areas in the system.		
Modern Client Theme	Displays the default theme available for the Modern Client. You can either customize the existing theme or create a new set of themes for the Modern Client.		
Report Template	<ul> <li>The Admin Interface uses the following two device report templates for generating reports for the device status: <ul> <li>Device Online Current Status</li> <li>Device Online History</li> </ul> </li> <li>Both templates can be edited to include additional information such as the company logo, header, footer, and so on.</li> </ul>		
Tile Layout	<ul> <li>The following default tile layouts are created by default:</li> <li>System Alarm Stack - Contains the Alarm Stack GUI that is used to show the alarm stack.</li> <li>System Blank 1 Way - A default tile layout to show a single tile layout.</li> <li>System Blank 4 Way - A default tile layout to show a tile layout with 4 tiles.</li> <li>System Blank 9 Way - A default tile layout to show a tile layout with 9 tiles.</li> <li>System Map - Contains the Map GUI that is used to show the map.</li> </ul>		

Typically, additional folders are created within the System Objects folder to contain most of the functionality added to the solution. For example, if you have a Visitor Log and a Webpage Viewer feature commissioned into the solution, then two folders would be created in the System Objects folder to contain a logic for each feature. System Objects typically include several VRPs and GUIs.

## **Unknown Locations**

The Unknown Locations folder does not contain any objects by default and is not commonly used for solution centric logic. Typically, objects which are redundant and need to be deleted, or test objects that need to be moved are created here.

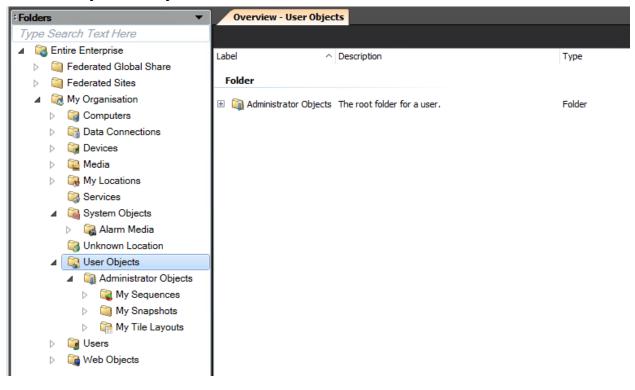


: Folders	•	Overview - Unknown Location	
Type Se	earch Text Here		
	ntire Enterprise Federated Global Share Federated Sites My Organisation Computers Data Connections Data Connections Devices Media My Locations Services System Objects Call Alarm Media User Objects	Label ^ Description No objects found.	Туре
	i Users Users Web Objects		

## **User Objects**

The User Objects folder includes a folder for each user in which user related objects are held. Currently, this includes all sequences and tile layouts created by that user which are not made available for all users.

By default, the Administrator user can view all user objects folder. Other users will only be able to view their object user objects folder.





### Users

The Users folder contains several default Groups and the Administrator user object.

The default credentials for the Administrator user are:

- Username: root
- Password: configured on login

Additional Users and Groups can be created in this folder as required. If you need to configure many users, use folders to organize them logically.

: Folders	▼	Overview - Users		
Type Se	earch Text Here			
⊿ 🙀 En ▷ 🛍 ▷ 🗯	ntire Enterprise ] Federated Global Share ] Federated Sites	Label ^	Description	Туре
A A A A A A	My Organisation Computers Data Connections Devices Media My Locations Services System Objects Unknown Location	<ul> <li>Account Administrators</li> <li>Administrators</li> <li>Administrators</li> <li>Backup Operators</li> <li>Beckup Operators</li> <li>Device Administrators</li> <li>Mobile Client Users</li> <li>Response Plan Designers</li> <li>Users</li> <li>Users</li> <li>Web Portal Users</li> </ul>	Account Administrators can create user accounts Administrators have complete and unrestricted acces Backup Operators can perform Database functions, a Device Administrators can create devices Mobile Client Users can have access to mobile clients Response Plan Designers by default have access to t Users are prevented from making accidental or intent Video Export Administrators can manage exporting of Web Portal Users can have access to web portal	Group Group Group Group Group
	Veb Objects	<ul> <li>escritor</li> <li>escritor</li> <li>escritor</li> <li>escritor</li> <li>escritor</li> <li>escritor</li> <li>escritor</li> </ul>	Built-in account for administering the system Built-in account for running the system	User User

## **Object Designer**

Control Center contains several standard object types. The standard fields defined for each object type can be seen in the Property Grid by selecting an object.

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System Configuration - N	NOT FOR RESALE			
File Edit Tools Wi	indow Help			
i 🛃 🧊 i 🎗 🔌 i 🗞 🖬	1   X 🖬 🖻 🗙   D 🔳			
Object Designer	Overview - System Objects			<b>→</b> X
🛃 Asset Group	🖶 Add 💥 Delete			
💕 Contact	Field Name	Description	DataType	Category
S2 Contact Group				
😰 Date Time Schedule				
Jevice				
Location				
👂 Placeholder				
💈 User				
🖏 Windows Client				
1 object selected.			💈 Administrator 🕽 Jonl.	cnluk.com 뛭 Jonl.cnluk.com 🔐

#### Adding a Field

Additional fields can be added to some object types, for example, you can add additional contact fields to the Contact object type.

To add a field to an object type:

- 1. On the toolbar, click the **Object Designer**.
- 2. Select the object to be modified.
- 3. Click **Add**. A new row is added to the list of fields.



🐵 System Configuration - NO	T FOR RESALE			
File Edit Tools Wind	low Help			
i 🖬 🗿 🔌 🔌 🖎 💽 i	X 🖬 🖻 🗙   Þ 🔳			
Object Designer	Overview - System Objects			- ×
🛃 Asset Group	👍 Add 💥 Delete 📙			
💕 Contact	Field Name	Description	DataType	Category
월 Contact Group	Enter Field Name	Enter Field Description	al Text	General Settings
Sea Contact Group				
J Device				
I Location				
In Location				
💈 User				
🗐 Windows Client				
1 object selected.		1 8 /	Administrator 🕽 Jonl	.cnluk.com 🥃 Jonl.cnluk.com "

4. Change the Name, Description, Data Type and Category to fit with the requirement.

	▼ Object Designer							( 1 )
Folders		1					Properties - (Jon Lunn	erfeldt)
🖮 📢 My Organisation	💑 Asset Group	👍 Add 样 Delete					Address	
Goot Errors     Goot Computers	Gontact	Field Name	Description	DataType	Category	<sup>4</sup>	Address 1	
Data Connections	Sa Contact Group	Skype ID	ID used to identify the contact on Skype	a Text	Contact		Address 2	
Devices	- Charles						Address 3 Country	
<ul> <li>Media</li> <li>My Locations</li> </ul>	Pate Time Schedule						Country	
Gervices	Jevice						Postal Code	
🖮 🙀 System Objects	I Location						Postal Town	
🗄 🣁 💋 Modules	-					4	Contact	
G Unknown Location	P Placeholder						Fax	
Users	🙎 User						IP telephone	
🔬 🙀 Web Objects	Windows Client						Office TelephoneHome	
	age windows clienc						TelephoneHome TelephoneMobile	
							TelephoneOffice	
							TelephonePager	
							Web page General Settings	
						<b>`</b>	Created	1/19/2015 11:20 AM
							Description	Contacts hold responsibility
							Enabled	True
							Label	Jon Lunnerfeldt
							Owner Schedule	Administrator No schedule set
							Tag	
						4	Geographical Posit	
							Position	0°00'00.00"N 0°00'00.00"
						1	Misc Show Notification	Click to edit
							Permissions	Click to edit
							<b>Created</b> The date and time of when	

5. Close the **Object Designer**. The new field can be verified by selecting an object of the type in the **System Explorer**. The new field appears in the **Property Grid**.

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#### CONTROL CENTER 5.28 REFERENCE GUIDE

ers 🔻	Overview - Conta	acts			Properties - (John D	)oe)
e Search Text Here			Search in Contacts	2	: 2↓ 📼	
🛜 Entire Enterprise	Label	<ul> <li>Description</li> </ul>		Туре	⊿ Address	
🝓 Federated Global Share					Address 1	
📷 Federated Sites	Contact			- 11	Address 2	
My Organisation	🗉 ඬ John Doe	Contacts hold room	onsibility for operations within a Locati	Cont	Address 3	
Computers	🖭 👔 John Doe	Contacts hold resp	onsibility for operations within a Locat	Con	Country	
and Connections				- 11	County Postal Code	
Devices				- 11	Postal Town	
40				- II	⊿ Contact	
i Media				- 11	Email	
My Locations				- 11	Fax	
🞇 Services				- 11	IP telephone	
b i System Objects				- 11	Office	
🕞 Unknown Location				- 11	Skype ID TelephoneHome	
User Objects				- 11	TelephoneMobile	
🛐 Users				- 11	TelephoneOffice	
🚰 Web Objects				- 11	TelephonePager	
<ul> <li>Contacts</li> </ul>				- 11	Web page	
Contacts					⊿ General Settings	
				- 11	Created	9/7/2018 5:08 PM
				- 11	Description	Contacts hold responsit
				- 11	Enabled	True
				- 11	Label Maximum Concurrer	John Doe
				- 11	Owner	Administrator
				- 11	Schedule	No schedule set
				- 11	Tag	
				- II	⊿ Misc	
					Skype ID	
					ID used to identify the c	ontact on Skype
	<					

#### Using a Custom Field

There are no user controls in the user interface that expose custom fields, however custom fields can be accessed from Response Plans and from the Graphical User Interface event pages. To access a custom field, you must first create a variable of the type and then use the variable. For example, in the following screenshot, custom fields are used while editing a script shape in a response plan.

Script Editor		×
My.PageVariables.cont	<ul> <li>Position</li> <li>Postal Code</li> <li>Postal Town</li> <li>Radio Channel</li> <li>Reset Lockout</li> <li>Show Notification</li> <li>Skype ID</li> <li>Speak</li> <li>Tag</li> </ul>	TD used to identify the contact on Skype
		OK Cancel



### **GIS Layer Manager**

GIS Layer Manager is where you configure the GIS layers for your Control Center solution. Typically, a new GIS Map layer is added when you first set up your Control Center solution or when new mapping sources become available. Control Center supports adding the following layers to a map:

- Open Street Map
- Bing Maps
- WMS
- WMTS
- KML
- Trail Point

For adding and deleting a GIS Layer, see Configuring GIS Map Layers.

Note: WMTS is not currently supported in the New Client.

### **Service Monitor**

The Service Monitor provides a visual representation of the various services running within your Control Center solution. It shows the status of each service and allows you to change the status of a service within Control Center. For example, you can view the memory and CPU consumption of each of the processes in Control Center, stop and restart processes, and so on.

The Service Monitor is the first of several features aimed at providing improved tools for maintaining a Control Center solution.

Machine Name	PRIYA-VM.cnluk.com							
CPU	iiiim.							
	12.72 %							
Available Memory	897 MB							
Name		Process Name	Machine Name	State	CPU	Memory	Change Status	Process Id
IPSecurityCen	ter Audit Server	ONL.1pSecurityCenter.Auditing.WindowsService	PRIYA-VM.cnluk.com	Stopped		0 KB		0
DPSC Streamin	ng Server	CNL.1pSecurityCenter.Driver.Streaming.Cli	PRIYA-VM.cnluk.com	Stopped		0 KB		0
PSC Client W	atchdog	løscerewd	PRIYA-VM.cnluk.com	Stopped		0 KB		0
IPSecurityCen	iter Monitoring Service	CNL.IPSecurityCenter.Monitoring.WindowsService	PRIYA-VM.cnluk.com	Running 🥥		16.58 MB 🔮	-	1796
ipSecurityCen	ter Connection Manager Service	CNL.IPSecurityCenter.Driver.ConnectionManager.Windov	PRIYA-VM.cnluk.com	Running 🥥		5.13 M8		1700
IPSecurityCen	ter Notification Service	CNL.IPSecurityCenter.Notifications.WindowsService	PRIYA-VM.cnluk.com	Running 🥚		5.87 MB		2120
IPSecurityCen	iter Server	løscserver	PRIYA-VM.cnluk.com	Running 🥥		3.23 M8		2520
🚫 IPSecurityCen	iter AlarmTypes Service	CNL.IPSecurityCenter.AlarmTypes.WindowsService	PRIYA-VM.cnluk.com	Running 🥚		3.99 MB		1256
PSecurityCen	iter Report Server	CNL.IpSecurityCenter.Reporting.WindowsService	PRIYA-VM.cnluk.com	Stopped		0 KB		0
PSecurityCen	iter Video Export Server	CNL.IPSecurityCenter.VideoExport.WindowsService	PRIYA-VM.cnluk.com	Running 🥘		54.9 M8		2708
DPSC Video Co	ontrol Manager (VCM)	CNL.IpSecurityCenter.Driver.VideoControlManager	PRIYA-VM.cnluk.com	Stopped		0 KB		0
<pre>@ IPSecurityCen</pre>	ter ONVIF Service	CNL_IpSecurityCenter.Driver.Streaming.Onvil.WindowsSe	PRIYA-VM.cnluk.com	Stopped		0 KB		0
PSC Window	s Client	ipsccrc	PRIYA-VM.cnluk.com	Running 🥥		9.21 M8		4060



Machine Name P-SR19-SQL17-1.dev.c	nluk.com				
====== 12.09 % Available Memory 9376.65 MB 📀					
Name	Process Name	Machine Name	State CPU	Memory Change Status	Process Id
Connection Manager Service (Default	Everbridge.ControlCenter.Driver.ConnectionManager.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	97.05 MB	7176
Windows Client	Everbridge.ControlCenter.WindowsClient	P-SR19-SQL17-1.dev.cnluk.com	Stopped 🔵	0.00 MB	0
Video Control Manager (VCM)	Everbridge.ControlCenter.Driver.VideoControlManager	P-SR19-SQL17-1.dev.cnluk.com	Stopped 🔵	0.00 MB	0
Rules Engine Service	Everbridge.ControlCenter.RulesEngine.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🕘	272.52 МВ 🔮	8716
Security Service	Everbridge.ControlCenter.Security.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 😑	168.02 MB 🕢	9788
Audit Server	Everbridge.ControlCenter.Auditing.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	102.31 MB 🕢	6536
Monitoring Service	Everbridge.ControlCenter.Monitoring.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	90.20 MB	7572
Federating Service	Everbridge.ControlCenter.Federation.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	236.83 МВ 🕢	8696
Client Watchdog Service	Everbridge.ControlCenter.ClientWatchdog.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Stopped 🔵	0.00 MB	0
Core Server	ipscserver	P-SR19-SQL17-1.dev.cnluk.com	Running 🔴	558.14 MB	2300
Alarm Types Service	Everbridge.ControlCenter.AlarmTypes.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔴	456.75 MB	6668
Streaming Server	Everbridge.ControlCenter.Driver.Streaming.Cli	P-SR19-SQL17-1.dev.cnluk.com	Stopped 🔵	0.00 MB	0
Video Export Server	Everbridge.ControlCenter.VideoExport.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	195.70 MB 🕢	7264
Notification Service	Everbridge.ControlCenter.Notifications.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	226.77 МВ 🕐	4432
GIS Service	Everbridge.ControlCenter.GIS.WindowsService	P-SR19-SQL17-1.dev.cnluk.com	Running 🔵	Activate Wind 211.64 MB 🕑 to Settings to a	ows dtiv <b>åle</b> w
	1			-1	-

#### The Service Monitor displays the following information:

Name	Description
Process Name	The name of the Control Center process.
Machine Name	The machine that is running the Control Center process.
State	The running status of a service. For example, if you stop the Control Center AlarmTypes Service in the Services dialog, the state of the service will show as stopped in the Services Monitor.
СРИ	The CPU consumption indicated by horizontal dotted lines. Double dotted line indicates a rise in CPU consumption.
Memory	The memory consumption of each of the services. The increase in memory consumption is indicated by a red up arrow and a decrease in memory is indicated with green down arrow.
Change Status	Hovering over this cell shows the Stop and Restart buttons that can be used for stopping and restarting the respective processes. For a stopped process, only Start button is displayed.



Process Id
------------

This is the Process Id generated by Windows for each of the Control Center processes/services.

To make effective use of this feature, ensure that you have all the Control Center components installed.

# Searching

Searching for objects is one of the most essential features in Control Center that can be performed in various areas of the system using the Search Objects window. Depending on the context of the search, some of the boxes on the Search Objects window may be pre-filled.

The Search Objects window can be loaded in two different modes:

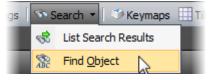
- **Standard** The search results are shown within the dialog.
- **Compact** The search results are shown upon submitting the search dialog. The latter option is useful for listing out search results in the System Configuration window.

To perform a search:

- 1. Specify the types of object to be found and the locations to search within. The results can also be narrowed further by specify part of the label or description.
- 2. Select the required object from the list of objects found matching your search criteria.

#### **Find Object**

**Find Object** is the standard search option that appears throughout the system when an object is required, or it can be shown via the toolbar in the System Configuration window.



#### Searching for an Object Using the Object Type Picker

The Object Picker dialog supports filtering of object types in search.

To perform a search:

1. From the toolbar, click **Search** to display the **Search Objects** window.

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🔍 Search Objects		×
Select these object types:		
Devices, Folders, Alarm Types, Alert States, Audit Servers, Medias, Windows Clients, Generic	Object Types	
From the following locations:		
All Folders	Locations	
Federated: <ul> <li>All Sites</li> <li>Specific Site</li> </ul>	Sites	
Label: Contains V	Find Now	
Description: Contains V	Stop	
	ОК	

2. In the first box, specify the objects types to search for.

**Note**: The object type may be pre-selected depending on the screen from which you called the Search Objects window; if it is pre-selected move on to the next step.

3. Click **Object Types** to display a list of objects then specify one or more types by which to search. The following figure shows an example of the list:



Object Types	x			
Filter: Enter Filter Text Here				
Label	Description			
📝 🤗 Alarm Types Objects	System object containing all configuration for alarm types and alar			
📝 퉳 Alarm Types Servers	The alarm types server represents one a server which provides acce			
📝 퉳 Alarm Types Services	The alarm types service represents one or more alarm type servers			
📝 🥎 Alert States	Alert State objects represent system Alert States.			
🗷 🛃 Asset Groups	Asset Groups			
🗹 🐔 Audit Servers	Audit Server objects represent physical servers in the system that p			
🔽 퉳 Connection Manager Servers	Connection Manager Server			
🗷 퉳 Connection Manager Services	Connection Manager Services Connection Manager Service			
📝 🞎 Contact Groups	Represents a group of Contacts.			
🔽 🕰 Contacts	Contacts hold responsibility for operations within a Location.			
🔽 퉳 Core Services	The core service represents one or more servers which provides ac			
📝 🚃 Dashboards	Dashboard			
📝 🧐 Data Connections	Provides a connection to a local or remote datasource.			
📝 퉳 Data Web Servers	The data web server represents one data web server which provide			
📝 퉳 Data Web Services	The data web service represents one or more data web servers whi			
Date/Time Schedules	Date/Time schedules are used to specify when objects can or can r			
🔽 腪 Device	Device			
📝 🕎 Display Areas	Display Area objects represent containers that can host Tile Layout 🚽			
	•			
Select All Select None	OK Cancel			
69/69 Items selected				

- 4. Click the check box next to the object type to search by, and then click **OK**. The search form will display the object types selected.
- 5. In the second box, specify the folders or locations in which to search for objects.

**Note**: The location may be pre-selected depending on the screen from which the Search Objects window was shown; if it is pre-selected move on to the next step.

6. Click **Locations** to display a tree view of all folders and locations. The following screen shows an example of the tree view:



Locations	1		×
Type Search Text Here			
🔺 🔲 😪 My Organisation			
Computers			
Data Connections			
Devices			
Media			
My Locations			
E Services			
Display="block-size: select			
Image:			
User Objects			
Image: Second			
Veb Objects			
OK		Cancel	

Use the checkboxes in the tree view to select the required folders. Use the + and - buttons to expand and collapse branches of the tree view as necessary. Click OK when all required folders are ticked. The search window will display the list of selected locations.

- 7. Select from one of the following Federated options:
  - **Local** Searches for all objects of the selected Users' Object types on the Sender site and returns on the Receiver's site.
  - All Sites Searches for the selected Users' Object types on Sender and Receiver sites.
  - **Specific Site** Searches for all Objects of the selected Users' Object types on a specific site.
- 8. Perform the search by clicking **Find Now**.
- 9. Use the label and description controls to refine the search further by specifying part of the object's label and/or description. Click the **Find Now** button to re-run the search.

To specify part of the label:

- 1. From the drop-down list next to the Label box, select from the options to refine the search:
  - Contains Specify a part of the object's label.
  - Is Exactly Specify exactly the object's label.
  - Starts With Specify the first one or more characters in the object's label.
- 2. Type the label text in the adjacent box.



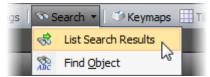
To specify part of the description:

- 1. From the drop-down list next to the **Description** box, you can refine the search by selecting one the following options:
  - **Contains** Specify a part of the description's label.
  - Is Exactly Specify exactly the description's label.
  - **Starts With** Specify the first one or more characters in the description's label.
- 2. Type the description text in the adjacent box.
- 3. Select the Include disabled objects checkbox if you would like the search results to include objects that have been disabled.
- 4. In the list of matching objects found, make your selection by using one of the following methods:
  - Double-click the required object.
  - Click the required object to highlight it, then click **OK**.
  - Click Select All to select all objects in the found list, then click OK.
  - Click **Select None** to deselect all objects in the found list.

Upon completing step 7 above, the user interface will return to the location from the Search Objects window. If the search is performed from the toolbar button or context menu in System Configuration, then the system will navigate to show the selected object. If the Search Objects window was invoked from an editor for example, from a VRP shape or GUI control, then the search results will be returned to the editor. The property being specified will determine if one or many results are selected.

#### List Search Results

The System Configuration window also allows for a search of objects shown as a list within the Overview Tab. This is the default option when the Search button is clicked.



The search procedure is the same as with Find Object however when running the search then the results will show in a new tab in the background.

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The Search Objects dialog can then be closed and the objects in the list of results can be interacted with, such as open a designer, set properties, etc.

**Note**: This is particularly useful when setting properties on many objects distributed across many folders.

#### System Explorer Wildcard Support

The System Explorer Search bar supports search using Wildcard terms such as \*, ? and #.

Locations	4
🚯 Example Organization	
GMT Standard Time	
R View contacts for this Location	
camera	Clear
🍖 CNL Demo Simulator Camera 1	

For example, in the search box the \* character can be used as a wildcard so that 'Cam\*ra' returns all strings containing 'Cam' and 'ra'. The wildcard '\*' also matches zero or more non-space and space characters so that, for instance 'Cam\*ra' returns both 'camra' and 'cam Agra'.

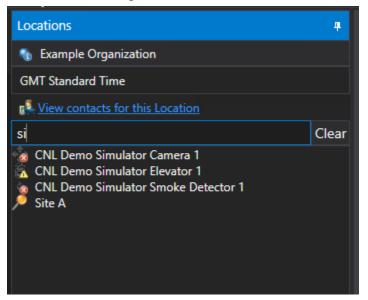
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Locations		Locations	J		
🐁 Example Organization		Example Organization			
GMT Standard Time		GMT Standard Time			
View contacts for this Location		s <u>View contacts for this Location</u>			
si*	Cle	si*ca	Clea		
CNL Demo Simulator Camera 1 CNL Demo Simulator Elevator 1 CNL Demo Simulator Smoke Detector 1 Site A		🍖 CNL Demo Simulator Camera 1			

Search is case insensitive, for example, searching for 'CAMERA' will match 'CaMeRa'.

Search automatically includes a wildcard search for the beginning and ending of search phrases, therefore searching for 'amer' will match 'camera' and 'America'.



When the label for an object includes the character '\*' this shall be found when the user enters the '\*' character. For example, searching for 'camera \*' will return 'camera 1' as well as 'camera \*1'.

The wildcard character '?' matches one instance of a character so that the search string 'ca?era' matches 'camera' and 'canera' but not 'cammera'.

The wildcard character `#' matches any numeric character (0..9) so that the search string `camera #' matches `camera 1' and `camera 8' but not `camera b'.

Spaces at the beginning and end of search strings are excluded in the search so that the search string `camera ` returns the same results as the search string `camera'.



#### Search Shape in Response Plans

Use the Search shape to populate a target variable with objects in the system based on the specified search criteria. The type of object to search for is based on the type of the target variable. In addition to the target variable to populate with the results, the shape also requires a search value by which to search, an operator, and the property to search. The operator provides a multiple choice of different operators which includes 'equals', 'less than', 'greater than', 'starts with', 'contains', and so on. The available properties to select from are determined by the type of the target variable. For example, specifying a location variable as the target variable results in the property to search including items such as 'label', 'address 1', 'address 2', 'location ID', and so on.

To search objects across Control Center, including federated objects from a VRP, such as Contacts across all Federated systems, you can specify the properties Remote Federation Service and Search Only Local Site that are specific to searching across Federated systems.

Δ	Optional	
	Include Child Folders	False
I	Remote Federation Servi	Remote Federated Service
	Search Folder	
	Search Only Local Site	True 🗸
⊿	Required	
	Case Sensitive Search	True
	Property to Search	Unspecified
	Search Operator	Equals
	Search Value	
	Target Variable	

If multiple results are returned by the search and a list variable has not been specified as the target, then the first item in the set of results will be used to populate the target variable.

## **Enterprise Settings**

Enterprise Settings contain settings that are global to federated sites. The settings can be configured centrally and published. The Enterprise Settings used at each site can be configured in the Enterprise Settings tab in Global Settings.



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	Add Snapshot Information			
	Alarm Attachment Size limit per item. If left blan	no lin	nit will be applied.	

### **Batch Processing of Alarm Notifications**

Clients have to orderly and repetitively fetch notifications and other information related to alarms for all the alarms in the alarm stack. This results in the client reaching out to the server, back and forth several times, performing the same process, and increasing the network traffic. This might cause a lot of overhead on the already loaded network. To reduce this traffic and increase efficiency of processing the alarms, Control Center has incorporated an option in **Enterprise Settings** to reduce the network traffic by grouping the notifications to the server every 3 secs. This option is disabled by default. You need to enable it, if batching of alarm notification is to take place.

## **Configuring Secondary Authorization**

The Secondary Authorization functionality provides the ability to restrict access to Admin Interface and System Configuration in Control Center for specific users. This can be done using the Security Policy options to allow the system to request a secondary sign-off for these users. The affected areas where permissions are changed will require a second authorized user to authorize the changes. This is very similar to an elevated sign off that requires a second member of the administrators' groups to authorize changes on the client machine where the changes are initiated.

When a request comes through, a notification is shown on the Client with a hyperlink to open **Config Authorization** view in the Admin Interface. The Administration Interface has a **Config Authorization** section, which displays all requests and status for access to System Configuration. A notification is sent to the client where an authorizer is logged in.

#### **Secondary Authorization Prerequisites**

• At least two clients configured to the same server (one as an administrator and the other as a user).



• Create users and user groups (one user without permissions to access System Configuration.

The Config Authorization changes affect the following areas in Control Center.

- . Admin Interface
  - . The Config Authorization panel in the Administrator Interface displays all requests awaiting authorization, such as requests to access System Configuration, renaming of the folder, and so on. It is where you approve or reject requests. Any changes related to the following tabs in the Admin Interface will need to be authorized:
    - Users tab
    - . User Groups tab
    - . Contacts tab
    - . Contact Groups tab
    - . Locations tab
- . System Configuration
  - . **Grant access to System Configuration**: Users requiring authorization to be able to access System Configuration based on the authorizers listed in the Security Policy.
  - . **Deny Access to System Configuration**: When the authorizer approves the request, the user will be granted access to System Configuration.
  - . **Re-submit Authorization after Denied Access**: If the authorizer rejects the request, the user will be denied access. The user will be informed whether the request was denied, or the request timed out.

#### **Global Settings Configuration**

There are four Configuration options for managing the Secondary Authorization settings:

- Authorization for accessing System Authorization Configuration request timeout
- Authorization required for accessing System Configuration
- Enable Configuration Authorization for Admin Interface
- Enable Location Based Configuration Authorization

These settings helps the administrator to enable/disable the access to System Configuration and Admin Interface to users/user groups. The options are as explained below:

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	Enterprise Settings Configuration
	Configure Enterprise Settings
	Enterprise Settings: Recal Enterprise Settings
Value	Name
	~ Alarm
10.00	Alarm Attachment Maximum Size (MB)
	Enable Batch Processing Of Alarm Notifications
	<ul> <li>Authorization</li> </ul>
equest timeout 30	Authorization for accessing System Configuration request tim
uration	Authorization required for accessing System Configuration
íace 🔲	Enable Configuration Authorization for Admin Interface
	Enable Location Based Configuration Authorization
	^ Camera
	Add Snapshot Information
	Auto-enable PTZ Behavior
be applied.	Alarm Attachment Size limit per item. If left blank no limit will be applied
be applied.	Alarm Attachment Size limit per item. If left blank no limit will be applied

Option	Value
Authorization for accessing System Configuration request timeout	Default is set to 30 sec. This means that if a request is not authorized by the authorizer within 30 secs, the request will be rejected.
Authorization required for accessing System Configuration	Enabled/Disabled. If this is enabled, the user must request authorization to gain access to System Configuration.
Enable Configuration Authorization for Admin Interface	Enabled/Disabled. If this is enabled, the user must request authorization to perform any operations in the Admin Interface.
Enable Location Based Configuration Authorization	Enabled/Disabled. If this is enabled, it means that no two clients within the same location can authorize each other's request.

#### Configuring Security Policies for Configuration Authorization

You can configure the following security policies for configuration authorization:

• **Configuration Authorization Required** – Specify which users and groups are required to have their configuration changes authorized (Root user, Administrator etc.).

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• **Configuration Authorizers** – Specify which users and groups can authorize configuration changes (Root user, Administrator and so on).

The policy can be turned on or off and would apply to all Control Center clients connected to the server.

#### Enabling Configuration Authorization Required policy

Once configured, this policy lists all the users that need authorizing of one of the following requests:

- Users that require Secondary Signoff
- Users that do not require Secondary Signoff

To set the Configuration Authorization Required policy:

- 1. From the System Configuration window, right-click on the Users folder and select Security Policy.
- 2. Expand **Security Policies** > **User Policies**. The available policies are displayed on the right.
- 3. Double-click the **Configuration Authorization Required** policy. The **Configuration Authorization Required** dialog appears.
- 4. Select the **Define Policy** check box and then click Users and Groups to add users and groups whose configuration changes need authorization from another user (for example, an Administrator).
- 5. Click **OK**.

When a user attempts to launch System Configuration, a dialog box appears notifying that a request has been created for another user to grant them access.

Note: This setting will be only effective if there are multiple accounts configured as authorizers.

#### **Enabling Configuration Authorizers Security Policy**

Once configured, this policy lists all the users that can authorize one of the following requests:

- Users that require Secondary Signoff
- Users that do not require Secondary Signoff

To configure authorizers:

- 1. From **System Configuration**, access the Security Policies in the same way as the previous section.
- 2. Double-click the Configuration Authorizers policy. The **Configuration Authorizers Properties** dialog appears.
- 3. Select the **Define Policy** check box and then click **Users and Groups** to add users and groups that can authorize configuration changes (for example, an Administrator).
- 4. Click **OK**.

#### Authorizing Requests

The users requiring access to the affected areas where permissions are changed will require a second user to authorize the changes, such as a user with Administrative privileges.

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For example, you can restrict access to Admin Interface and / or folders in the same location to specific users as detailed in the Security policy. To demonstrate this scenario:

You could make changes to one of the following areas in the Admin Interface:

- Users tab
- User Group tab
- Contacts tab
- Contact Groups tab
- Locations tab

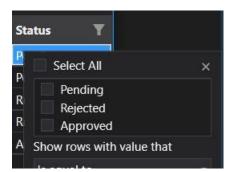
From the Admin Interface, add a new user. To do this:

- 1. Click on the **Users** tab and then with the button which will take you to the **Add Users** window.
- 2. Enter the user details and click **OK**.
- 3. Enter the comment in the **Configuration Authorization Request** box.
- 4. Press
- 5. The authorizing client will receive a notification at the bottom right corner of the screen.
- 6. Click on this to go to configuration **Authorization** window in Admin Interface.

Admin Interface

	motrator	Interface \ Configurati	onnau	Torroduc	JII I Olaluo		
	Mark	All Unmark All					
Configuration Authorisation	Full Text Searc	•					
Description Add test user		Description	T Requeste	d User 1	Requested Date	Requested Client T	Status
Request Details:	+	Add Test user	Limited A	tmin User	12/12/2018 2:16:05 PM	DEVnetClient174.CNLUKD	E Pending
Jser Limited Admin User Date 12/11/2018 10:59:42 AM	+	Add djskdj	Limited A	dmin User	12/12/2018 1:31:32 PM	DEVnetClient174.CNLUKD	E Pending
Client DEVnerClient174.CNLUKDEV	ೆ	Open System Configuration DEVectClient1	4.s Limited A	dmin User	12/11/2018 12:08:17 PM	DEVnetClient174.CNLUKD	Rejected
Comment test	d <sup>9</sup>	Open System Configuration DEVnetClient1	4.1 Limited A	dmin User	12/11/2018 11:41:31 AM	DEVnetClient174.CNLUKD	Rejected
STATISTICS AND ADDR	+	Add test user	Limited A	dmin User	12/11/2018 10:59:42 AM	DEVnetClient174.CNLUKD	E Approved

7. Click the **Status** tab on the menu to open the drop-down menu and select **Approved** to approve a request.



**Tip**: You can also access the **Config Authorization** dialog in Admin Interface by clicking on the status bar at the bottom of the main display area. Any changes that need approval or rejection and the existing declined/approved requests will appear here. However, only the requests awaiting approval or rejection will have the check box enabled.



#### Authorization for Accessing System Configuration Request Timeout

There is a time limit that can be set in the Enterprise Settings of the authorizer, which says that if the request is not been honored in that time frame, then it will automatically be rejected.

#### Authorization for Accessing System Configuration Request Timeout

There is a time limit that can be set in the **Enterprise Settings** of the authorizer, which says that if the request is not been honored in that time frame, then it will automatically be rejected.

#### Audit Events From Secondary Authorization

The events that you want to be audited can be configured in the **Audit Events** dialog. The available events to choose from are as shown in the figure below.

Configure Audit Events	×
Configure Audit Events	
Use this dialog to configure which events are audited.	
Aam Device Federation Graphical User Interface Misc Secondary Authorization	Securit 1 >
Secondary Authorization	
Secondary Authorization Request	
Request Approved By User	
Request Rejected By User	
Request Timed Out	
ок	Cancel

Option	Description
Secondary Authorization Request	If enabled, lists when the secondary authorization is created.
	If enabled, lists all requests, approved by the user along with the username who authorized it and the workstation name.



Request Rejected By User	If enabled, lists all requests, rejected by the user along with the username who rejected it and the workstation name.
Request Timed Out	If enabled, lists all requests, rejected due to the request being timed out for authorization. In this scenario, the username is listed as <b>System</b> and the Eventtype as <b>TimedOut</b> in the audit report generated from the database.

To get to the **Audit Events** dialog, you need to:

- 1. Go to System Configuration > My Organization > Computers.
- 2. Select Audit Server.
- 3. In the **Properties** window in the right pane, select **Audit Events**. The **Configure Audit Events** window displays.

Properties - (P-SR16-SQL16-01.dev.cnluk.com) 🔻			
2↓ 🖻			
Advanced			
Audit Events	Click to edit		
General Settings			
Created	2/12/2019 10:00 AM		
Description	Server with the IP hostname of P-		
Enabled	True		
Environment	Production		
Fully Qualified Name	P-SR16-SQL16-01.dev.cnluk.cor		
Label	P-SR16-SQL16-01.dev.cnluk.cor		
Owner	System		
Tag			
Permissions			
MSMQ Server	P-SR16-SQL16-01.dev.cnluk.cor		
Security	Security Settings		
System Database			
Connection	Click to edit		
	Advanced         Audit Events         General Settings         Created         Description         Enabled         Environment         Fully Qualified Name         Label         Owner         Tag         Permissions         MSMQ Server         Security         System Database		

- 4. Select Secondary Authorization tab.
- 5. Enable the events you would like to audit. By default, all the options are enabled.
- 6. Select OK.

#### Location Based Configuration Authorization

when the Enable Location Based Configuration Authorization property is enabled in the Global Settings. the authorizer was able to approve/reject the request, only if they are not present in the same location as the requester. The popup notification will only be displayed on the client of the authorizer sitting remotely to the requester. If this property is not enabled, then the authorizer can Approve and Reject regardless of the location.



However, the authorizer on the same location can still go to the configuration authorization window and reject the request. He will not have the rights to approve though, unless seated remotely to the requester. An error message will be displayed, and the user will be restricted to approve the request if placed in the same location.

	tion Authorisation				_	
Mar	k All Unmark All					
ull Text Sear	ch					
	Description	Requested User	Requested Date * Y	Requested Client 🛛 🔻	Status	٦ŕ
• +	Add user089	Limiteduser2	6/21/2019 5:07:50 AM	SR16-SQL16-07.dev.cnluk.c	Pending	
+	Add user50	Limiteduser2	6/21/2019 4:04:03 AM	SR16-SQL16-07.dev.cnluk.c	Approved	
- +	Add user001	Limiteduser2	6/21/2019 4:03:35 AM	SR16-SQL16-07.dev.cnluk.c	Approved	
- +	Add user50	Limiteduser2	6/21/2019 4:01:04 AM	SR16-SQL16-07.dev.cnluk.c	Rejected	
- <b>-</b>	Add user15	Limiteduser?	6/21/2019 3:56:40 AM	SR16-SQL16-07.dev.cnluk.c	Approved	
Error			× 1/2019 3:54:58 AM	SR16-SQL16-07.dev.cnluk.c	Rejected	
			1/2019 3:50:47 AM	SR16-SQL16-07.dev.cnluk.c	Approved	
	Failed to approve 1 request because the re-		1/2019 3:44:56 AM	SR16-SQL16-07.dev.cnluk.c	Rejected	
	request and approving client are in the san	ne folder	1/2019 3:16:27 AM	Win10-07.dev.cnluk.com	Rejected	
			1/2019 3:15:42 AM	Win10-07.dev.cnluk.com	Rejected	
		ОК	1/2019 3:14:46 AM	Win10-07.dev.cnluk.com	Rejected	
		UK	1/2019 3:11:54 AM	SR16-SQL16-07.dev.cnluk.c	Rejected	
*	Add user11	Limiteduser2	6/21/2019 3:11:40 AM	SR16-SQL16-07.dev.cnluk.c	Approved	
	Open System Configuration SR16-SOL16-0	07.d Limiteduser2	6/21/2019 3:04:04 AM	SR16-SOL16-07.dev.cnluk.c	Reiected	
e?						
escription	Add user10					
_						
escription						
escription equest Det ser	tails					
escription equest Det	tails Limiteduser1					

## **RSS Feed**

The Control Center RSS Feed UI control provides the ability to display RSS content within the Control Center user interface. This can be used to display news headlines or important pieces of information to all users across the site. For instance, these feeds can allow the user to keep track of any future changes or maintenance work coming up.

The control provides the user with a static or scrolling news ticker which displays RSS headlines with the ability for the user to click on a headline to read more information.

The RSS feed control supports a limited sub-set of RSS tags from either a file source or online source.

#### Configuring the News Scroll on the Main Screen

The news feed can be set to display on the main screen so that the user will not miss any important news or update. The administrator can configure the news feed by:

- Configuring the GUI
- Setting the properties of the GUI
- Displaying the GUI



#### Configuring the GUI

To configure the GUI for the news feed you need to:

- 1. Go to System Configuration > System Objects.
- 2. Create a new GUI by right clicking on the window in the right pane. Name it appropriately, for example: News Scroll

Ŧ	Machinistrator Interface	Create customised front-end's using Graphical User I	Graphical User Interface	11/21/2018 3:39:57 PM
Ŧ	Alarm Stack	System alarm stack GUI containing the alarm stack gri	Graphical User Interface	11/21/2018 3:39:57 PM
Ŧ	Auto	Create customised front-end's using Graphical User I	Graphical User Interface	11/22/2018 2:31:50 PM
+	Main Menu	Create customised front-end's using Graphical User I	Graphical User Interface	11/21/2018 4:21:48 PM
Ŧ	🜉 Мар	System map GUI for showing maps to the end user.	Graphical User Interface	11/21/2018 4:21:59 PM
Ŧ	News scroll	Create customised front-end's using Graphical User I	Graphical User Interface	12/4/2018 3:07:53 PM
Ŧ	System Explorer	Create customised front-end's using Graphical User I	Graphical User Interface	11/21/2018 4:21:56 PM

#### 3. Double click on the GUI to edit it.

4. Select **Plug-in Controls** tab, in the left pane of the toolbox.

Toolbox	-
3 3 43	
Forms	
Administrator	
Alarm Types	
Applications	
Dashboard	
Dialogs	
Geographics	
Layout	
Plug-in Controls	
Pointer	
Rss Feed Control	
Web Browser Control	

- 5. Drag and drop the **RSS Feed Control** onto the GUI.
- 6. Select the **Dock property** to fill on the properties window of the GUI.



: Pr	roperties - (Main	Menu) 🔻
	2↓ 🖻	
v	Basic Settings	
	Enabled	True
	Name	rssFeedGuiPluginControlGenerate
	Tab Stop	True
	Tag	rssFeedGuiPluginControlGenerate
	Visible	True
v	Behaviour	
	Anchor	Top, Left
	Dock	Fill
>	Location	0,0
>	Size	600, 500

7. Save GUI.

#### Setting the Properties of the GUI

The behavior of the news feed is controlled by setting the configuration properties of the GUI Control in the properties window.

: Pr	operties - (Newsso	roll) 🔻
E		
•	<u>≱</u> ↓ 🔤	
Y	Basic Settings	
	Enabled	True
	Name	rssFeedGuiPluginControlGenerate
	Tab Stop	True
	Tag	rssFeedGuiPluginControlGenerate
	Visible	True
Y	Behaviour	
	Anchor	Top, Left
	Dock	Fill
>	Location	0.0
>	Size	600, 500
Y	Configuration	
	Days to Include	10
	Dwell Time (s)	20
	Font Size	14
	Poll Interval	EveryHour
	RSS URL	http://feeds.skynews.com/feeds.
	Scroll speed	Medium 🗸
	Text Style	courier new



As seen in the figure above, there are six properties that manage the functioning of the news scroll. These will be explained in the table below.

Property	Description	Value
		o - any value, depending on the source of the feed chosen
Dwell Time(s)	It is the time in seconds, a message is displayed for on the screen	Any value > o. Dwell time applies to Fixed messages only
Font Size	Font size of the message appearing in the news feed	Greater than zero
Poll Interval	Poll Interval how often to reach to the source feed to refresh the messages	
RSS URL	URI or UNC path to an RSS source document.	File path (either local or UNC) or URI.
Scroll speed	The relative speed of the message to travel across the screen	There are five options that can be set from slowest to fastest. There is also a fixed option available, which when set, the message will not scroll.
Text Style	Font type of the message on the news feed	Any standard font type

#### Using a Filepath for the RSS Feed

The RSS feed can be sourced from an online source, from a file stored locally or on a shared Network drive (defined using UNC). The file path can be specified in the RSS URL property in the Property grid or can be saved as an Environment Variable and used as shown in the picture below.



	Properties - (RSS Tile Layout)				
	📰 🗉 🚳 j				
:	2↓ ■				
$\sim$	Basic Settings				
	Enabled	True			
	Name	rssFeedGuiPluginControlGenerate			
	Tab Stop	True			
	Tag	rssFeedGuiPluginControlGenerate			
	Visible	True			
$\sim$	Behaviour				
	Anchor	Top, Left			
	Dock	Тор			
>	Location	0.0			
>	Size	600, 300			
$\sim$	Configuration				
	Days to Include	0			
	Dwell Time (s)	20			
	Font Size	14			
	Poll Interval	EveryHour			
	RSS URL	%var_with_UNCfilepath%			
	Scroll speed	Fastest			
	Text Style	Tahoma			

Environmental variables can also be used to define the filepath. Standard Windows environment variables can be used or can be custom defined in the Global Settings to be used within Control Center. To define the environment variables, do the following:

- 1. Go to System Configuration.
- 2. Click on the **Global Settings** tab on the main toolbar ribbon at the top to see the **Global Settings** Window.
- 3. Select **Environmental Variables** from the options in the left pane.
- 4. Right Click on the empty space in the window to display the menu.



🎲 Global Settings			$\times$		
Alarms Environment Variables	🧼 Environment Va	riables			
Enterprise Settings Error Reporting	Configure Environment Varia				
Languages Security SQL Reporting	Use this dialog to Add / Edit a Variable Name:	var_with_UNCfilepath			
Styling Video Wall	Variable Value:	\\fileserver.cnluk.com\Users\User1\ExampleRSSFile_Short.xml OK Cancel			
		Cancel			
		OK Cancel Apply			
OK Cancel Apply					

- 5. Select **New Variable** to create a new environment variable.
- 6. Enter a name and valid file path as a value and click on apply to save it.

Now, this variable can be used as explained in the previous section to set the path of the RSS feed.

#### **RSS Source Content**

The first version of the RSS control supports a subset of RSS elements and does not render HTML formatting. Non-supported elements are ignored.

Supported elements:

Element	Description	
<channel><lastbuilddate></lastbuilddate></channel>	The last time the RSS source was refreshed. Used for refresh but not displayed.	
<item></item>	Item displayed by the RSS feed	
<item><title>&lt;/td&gt;&lt;td&gt;The title of the item shown in the feed&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;item&gt;&lt;description&gt;&lt;/td&gt;&lt;td&gt;The description of the item shown when a user clicks on a title&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></item>		

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<item><pubDate>
The time of an item shown in the UI
Perper
Lab VM machines are down on December 4th
Posted At 12/4/2017 12:25:00 PM < </p>
Posted: 12/7/2017 12:25:00 PM
Posted: 12/7/2017 12:25:00 PM
Maintance window is open on 8th Dec from 4.00pm to 8.00pm, JIRA and Confluence will be down for 4hours, please plan your activities.
OK

#### Sample contents of the RSS file is as shown below:

```
<?xml version="1.0" encoding="utf-8"?>
 <rss version="2.0"
     xmlns:content="https://purl.org/rss/1.0/modules/content/">
     <channel>
         <title>Not Used</title>
         <description>Not Used</description>
         <link>Not Used</link>
         <pubDate>Not Used</pubDate>
         <lastBuildDate>Mon, 26 Nov 2018 09:03:27 +0000</lastBuildDate>
         <managingEditor>Not Used</managingEditor>
         <docs>Not Used</docs>
         <generator>Not Used</generator>
         <item>
             <title>
                 <![CDATA[Lab VM machines are down on December 4th]]>
             </title>
             <link>Not Used</link>
             <description>
                 <! [CDATA[Maintenance window is open on 22nd Dec from 4.00pm to
8.00pm, JIRA and Confluence will be down for 4hours, please plan your activities.
]]>
             </description>
             <pubDate>Mon, 4 Dec 2017 12:25:00 +0000</pubDate>
             <image>Not Used</image>
         </item>
         <item>
             <title>
                 <![CDATA[Lab VM machines are down on December 8th]]>
             </title>
             <link>http://www.codeguru.com/csharp/.net/net general/keyboard/creati
ng-an-ascii-table-in-.net.html</link>
             <description>
                 <! [CDATA [Maintenance window is open on 8th Dec from 4.00pm to
8.00pm, JIRA and Confluence will be down for 4hours, please plan your activities.
]]>
             </description>
             <pubDate>Mon, 7 Dec 2017 12:25:00 +0000</pubDate>
             <image>Not Used</image>
         </item>
     </channel>
</rss>undefined</xml>
```



#### **Displaying the GUI**

You can display your GUI on the main screen of your Control Center as explained in the steps below:

- 1. Click on the **System** > **Setup Display**.
- 2. Add a new Display Window.
- 3. Add a new Display Area and name it News Feed.

Setup Display			
Current Display Windows			
▲ 🗍 Display Windows			
▲ [enter customer name bere]			
System Main 📮 Add Display Window			
Add Display Area			
Sizing	F		

- 4. In the properties window of the display area, **Set Allow Drop** to **True**.
- 5. Save the display.
- 6. Drag and drop the **News Scroll** GUI onto the Display Area created above and pin it on the top of the Main screen of Control Center. The main screen will look like as seen below.

News feed				
	Cracking weather takes its toll on insurance claims	Posted on	12/5/2018 12:01	am <∎∎>
System Main				4 Þ
			Party I	

#### Viewing Details About a News Feed

The scroll bar of the News Feed window flashes the headlines or snippets of news from the source chosen. If you need to see more details regarding a news, you can click on the flashing news. A popup window appears with the headlines as the title and details about the news with time and date stamp at which the news was published.



Call to end	I UK's plastic export 'shame'	×
1	Posted: 12/4/2018 3:50:00 PM Sky CEO Jeremy Darroch has joined a group of business leaders of to stop "passing the buck to some of the world's most disadvanta exporting its plastic waste to the developing world.	
		ок

You can also choose to see previous/succeeding news by clicking on the arrows in the top right corner of the window.

#### Unable to Get RSS Feed

The RSS feed can be fetched from a file path or an URI. In circumstances where the file path or URI is invalid, or the source is unreachable due to network issues or file not existing, the news scroll window displays the following error message.

The RSS Feed failed to load, please check that the RSS URL is correct
-----------------------------------------------------------------------



# **Active Directory Integration**

In addition to using built-in Control Center user/group roles, Control Center provides the ability to connect to a Microsoft Active Directory repository for authentication of users and group members. This allows users to access Control Center using their windows credentials. Single sign-on is also supported to further reduce the steps required to log into Control Center.

This feature can be used to maintain a Control Center user group on the Windows network to avoid re-entering and maintaining a user base in Control Center itself. Permissions and policies in Control Center can then applied to active directory users and groups by associating Control Center user groups with active directory user groups.

**Note**: Control Center does not support making changes to the contents of Active Directory, and other features of Active Directory, such as computer management and policies.

Four modes are available to determine the authentication options for users:

- Standalone Only Control Center users can log into the system.
- **Mixed-Mode** Both Control Center users and Active Directory users can log into the system.
- Active Directory Only Only Active Directory users can log into the system.
- **Single Sign-On** Users will be automatically logged into Control Center with the same credentials they use to log into the computer.

### Prerequisites for Active Directory Integration

Listed below are the prerequisites for using active directory integration with Control Center:

- The site must be using Active Directory for user authentication.
- The Control Center server and all clients must be installed on computers that are registered with the same Active Directory.
- The Control Center must run as a unique domain user account.
- The server user account must have access to the SQL Server that holds the Pacific database.
- The server user account must have read access to the Active Directory areas that contain all users and groups intended to be used by Control Center.
- The Active Directory user accounts must have **Allow interactive log on security policy** enabled on the computers used for Control Center client terminals.
- Control Center services can run in no-domain mode as well.

## **Configuring Active Directory**

The configuration of Control Center to work with Active Directory is minimal as most of the configuration is transparent to both end-users and engineers. The engineer must specify the authentication mode for the entire solution and then associate Control Center groups with Active Directory groups.



You can create associations between Control Center and Active Directory groups, configure the different authentication modes in Control Center, and log into Control Center using an Active Directory user account.

#### Associating Control Center Groups With Active Directory Groups

Permissions and policies set against Control Center user groups can be applied to Active Directory groups by associating the two types of objects. Note that no changes will be made to Active Directory. When a user logs in to Control Center, the associations will be checked to determine the level of permissions and policies to be applied to the user.

To associate Active Directory Groups to Control Center Groups:

1. Select a group in Control Center and edit the Active Directory Groups setting.

Overview - Users			: Pr	Properties - (Administrators)			
		Search in Users	2		)≵↓   @		
Label	*	Description	Туре	۵	General Settings		
					Created	4/17/2013 11:29 AM	
Group					Description	Administrators have complete and	
					Enabled	True	
± 🎎	Account Administrators	Account Administrators can create user accounts	Group		Label	Administrators	
± 🎎	Administrators	Administrators have complete and unrestricted acces	Group		Members	1 Member	
± 🎎	Backup Operators	Backup Operators can perform Database functions, a	Group		Owner	System	
± 🎎	Device Administrators	Device Administrators can create devices	Group		Tag		
± 約	Response Plan Designers	Response Plan Designers by default have access to t	Group	۵	Mappings		
	Users	Users are prevented from making accidental or intent			Active Directory Groups	No group mappings	
				۵	Permissions		
± 🌆	VIDEO EXPORT Administrators	Video Export Administrators can manage exporting of	Group		Security	Security Settings	

The Active Directory Mappings editor appears.

2. Enter all or part of the Active Directory Group to associate and then click **Search**.

Active Directory Mappings			
Enter an active directory group name to search for:			
admin	Search		
Current mapped active directory groups:			

Relevant Active Directory Groups appear, if available.

3. Select a group and then click **Add**.

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Active Directory Mappings				
Please select an Active Directory Group to add:				
Domain Admins	*			
Administrators				
Enterprise Admins				
Schema Admins	=			
DHCP Administrators				
DnsAdmins				
	*			
Add	ancel			

The selected group will be added to the list of currently mapped Active Directory groups.

Active Directory Mappings			
Enter an active directory group name to search fo	ir:		
Current mapped active directory groups:	Search		
Administrators			

4. Click **Save** to submit the changes and close the dialog.

Any users within Active Directory that are a member of the Administrators group will now be subject to the same permissions and policies based on the Control Center Administrators group.

#### **Changing Authentication Mode**

The authentication mode can be specified in the Global Settings dialog within System Configuration.

- 1. Click **Global Settings** to open the **Global Settings** dialog.
- 2. Click **Authentication** from the options on the left, and then select the required authentication mode.



Alarms Environment Variables					
			Enterprise Settings	Login	
Error Reporting	Authentication Mode	Standalone 🔻			
anguages	Only Everbridge Control Center users	c Standalone			
Security	Chily Everbillage control center users	Mixed-Mode			
SQL Reporting	Active Directory Cache	Active Directory			
Styling		Single Sign-On			
Video Wall does not cause performance problems.					
All users 5 × Minutes × Logged-in users 24 × Hours ×					
		24 Hours			
	Type Permissions				
	This specifies the currently active Type Permission settings object. The Type Permission setting				
defines access to types for users.         Priority 1 Type Permissions:         Image: Comparison of the selected of the se					
		3			
		۵			
		elected.			

**Note**: The Single Sign-On setting only propagates to the clients during login. All clients will therefore need to log into the server following a switch or from Single Sign-On mode to get the updated setting.

#### Logging into Control Center Using an Active Directory User

The Control Center Login dialog provides the option to specify Control Center user credential, Active Directory Credentials, or simply use the current windows user. The selection made in **Global Settings** > **AuthenticationMode** determines if the user is permitted to login based on the type of user specified and the mode selected.

If the Active Directory only authentication mode is selected, the **Login** dialog will include an additional option to log in with the Current Windows User. The user can then check this option to log in as the currently logged in user.

**Note**: An Active Directory user can log into Control Center even when the connection to the Active Directory is lost. However, this is only possible if the AD User has logged into Control Center at least once.



	EVERBRIDGE CONTROL CENTER
Language English (US) User name CNLUK\int_z	
Server Address 5.25.0.1008 Copyright © 2004-2020 CNL Software Ltd. All rights	ts reserved

**Note**: This option will be hidden by default after the first log-in as the user does not need to specify any other setting.

Alternatively, you can also specify the Active Directory credentials different to the currently loggedin user. To enter different credentials:

- 1. Clear the **Current Windows User** option and then enter the user name in the format DOMAIN\USERNAME.
- 2. Enter the password and then click the **Login** link.

# # everbridge\*

	EVERBRIDGE CONTROL CENTER	
	Welcome, Please Login	
	Language English (US) 🔹 👻	
	User name	
	CNLUK\tempuser Password	
	Current WE down war	
	Current Windows user	
	Login	
Server Address		
5.25.0.1008 Copyright © 2004-2020 CNL Softwa	are Ltd. All rights reserved	everbridge <sup>®</sup>

#### Using Read Only Domain Controller With Control Center

Control Center allows users to authenticate using Windows Domain account credentials. Windows will authenticate the user using a Domain Controller (DC). In a federated solution, with many sites connected to a central location, a common infrastructure issue is that the Domain Controller is deployed centrally, and users cannot authenticate if they are at a site that has been disconnected from the central Domain Controller.

Windows Server 2008 introduced a new type of domain controller, the Read-only Domain Controller (RODC). This provides a domain controller for use at branch offices where a full domain controller cannot be placed. The intent is to allow users in the branch offices to log-on and perform tasks like file/printer sharing even when there is no network connectivity to hub sites.

Control Center 5.9 introduces support for RODC. If a RODC is available within the user's network and the central DC cannot be reached, Control Center will attempt to use the RODC to authenticate the user and the users AD group memberships when the user logs in.

No specific Control Center configuration is required to support RODC other than the standard configuration for using Active Directory.



# **Dynamic Permissions**

The Dynamic Permissions functionality enables users to view session permission / group membership changes implemented instantly without having to restart the Windows Client. For example, when you move around users into different groups, you can manage which locations, scenes, devices and alarms are visible to those users without having to restart the client each time you make such changes.

An ideal scenario is when an organization is required to split permissions to multiple levels, whereby the local team is responsible for security of a set of locations and devices, and the global team is responsible for a wider security of assets. As the global team may not have access to or visibility of any of the assets owned by the local team, the local team must manually provide the global team to have access to the locations, devices, scenes, alarms and so on. This can be repetitive for the local teams that have defined rules and times of day as to when such delegations should occur. In addition, the global users must log off and log back in to acquire the new group membership and therefore the new access rights for the user.

However, with the Dynamic Permissions feature, any session membership changes made in the Client are effective in real time within a countdown of 20 seconds. That is, you can see the permission changes almost instantly. A notification is displayed informing you to acknowledge after which the UI is updated to ensure that the content visible complies with the changes made to group membership.

**Note**: The Dynamic Permission update only considers membership of Control Center Groups and does not support changes to group membership made in Active Directory or other external system.

The following areas in the user interface will be refreshed automatically after a group membership change takes place:

- Alarm Stack
- Administration Interface
- Currently displayed cameras
- Current GUIs that are user session aware
- Current location and Scenes
- Cameras
- Drop zone controls
- Operator Actions
- System Configuration
- Video Wall displays

**Note**: The following items are not automatically updated and require commissioning involvement to affect the refresh:

- Currently displayed GUI's that do not get impacted by user permission changes.
- VideoWall displays where the lease was not owned by a user when the membership change occurred.



## **Configuring User Permissions**

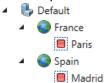
Before making user permission changes, first define locations, sub locations, users, and user groups. Make sure to set up at least two machines with Windows Client. User permissions can be configured in one of the following ways:

- Via Admin Interface
- Via System Configuration (Users and Groups area)

In this this example, user permissions are configured via System Configuration.

To configure user permissions:

 From System Configuration > My Locations, create two main locations: France and Spain and create two sub-locations for each of the main locations: Paris & Madrid. For example:



- 2. Associate each of the locations and sub-locations with appropriate scenes.
- 3. Plot devices into each of the scenes as required.
- 4. Create two users specific to locations created above: **France** user and **Spain** user. Users are created.
- 5. Create two user Groups: **French** Group and **Spanish** Group.
- 6. Add two groups in the following way:
  - a. Right-click **System Configuration** and select **New > Group**.
  - b. Rename it, for example **France** Group. Create another group, for example, **Spanish** Group in the same way. Both groups are created.
- 7. Provide users with the permissions to see their respective groups. For example, make sure the Spain user is a member of Spanish group only and France user is a member of France only. To do this, follow these steps:
  - a. With the France location selected, in the Properties pane, click Security Settings.
  - b. Select the Users group and click Remove. The Users group is removed from the France location. Navigate to the France location and remove the Users group from the Security Permissions. The Users group is removed.
  - c. Click **Security Settings** again and then click **Add** to assign the **French** User group to the **France** location.

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Administrator Backup Operators		
Administrators     Administrators		
	_	
Remove	*	
Deny	^	
	~	
is object		
of permission	ns	
Canaal		
	Cancel	

- d. Follow the same steps for removing the **Users** group from **Spain** location and adding the location to the **Spanish** group.
- 8. Log in to the second client as the French user with appropriate credentials.
- 9. From the **System Explorer** tree, only locations and devices related to France should be displayed. The Spain related locations and devices are not displayed.
- 10. Now, log off from the second client and log in as a **Spain** user.
- 11. View the **System Explorer** tree. Only the locations and devices related to Spain are displayed. The locations and devices related to France are not displayed.
- 12. Now log in to the first client as the regular root user and view the **System Explorer** tree. All the locations and devices are displayed in **System Explorer**, for example both France and Spain should appear.

### Moving Users to Another Group

Moving users from one group to the other displays a notification message.

To move users from one group to the other:

- 1. In **System Configuration**, create 2 response plans and name them as follows:
  - Add Membership
  - Remove Membership
- 2. Create Add Membership response plan:
  - a. Right-click anywhere on the **Overview** pane and select **New** > **Response Plan**.
  - b. In the designer, select the **Add Member** to **Group** shape and edit the following properties:
    - Member To Add Select the user that you want to add to the group selected above, for example, Spain User.
    - Group To Add To Select the group that you want to add membership to, for example, France.



- Session Membership Changed Enter the message description that will be displayed to the logged in user when their session membership changes
- c. From **System Shapes**, drag and drop the **Add Member To Group** shape on the designer area.
- d. Double-click the Add Membership response plan to edit it.
- e. Rename it to Add Membership.

Add Membership	
Add Membership [Master Page]	
Add Member To Group	

- 3. Create **Remove Membership** response plan:
  - a. Right-click anywhere on the **Overview** pane and select **New** > **Response Plan**.
  - b. Rename it to **Remove Membership**.
  - c. Double-click the **Remove Membership** response plan to edit it.
  - d. From **System** shapes, drag and drop the **Remove Member To Group** shape on the designer area.
  - e. In the designer, select the **Remove Member to Group** shape and edit the following properties:
    - Session Membership Changed Description Enter the message description that will be displayed to the logged in user when their session membership changes.
    - **Group To Remove From** Select the group you want to remove the membership of, for example, France.
    - **Member To Remove** Select the member you want to remove from the above selected group, for example, Spain User.





4. Run one of the response plans. A message displaying the time count is displayed in the Warning message window. Click **OK** or wait for 20 seconds. The window disappears, and the changes take effect.

👌 Warning	I
	Your session has changed and your client will be refreshed. You have 16 seconds to comply.
	ОК

- 5. View the System Explorer tree to verify if the Control Center Client is refreshed. The France Location is removed from System Explorer tree.
- 6. Search for the France locations or devices in System Explorer tree. The System Explorer shows **No Records available** error message and the map area will show the following message:



#### Error you don't have read permissions to view the scene

- 7. The interface refresh will remove visibility of all or any of the following areas depending on the user permissions:
  - Alarms Stack Will be refreshed to only alarms that the user has permissions to are displayed.
  - Alert State Only alerts that are part of the alarms that the user has permissions to are displayed.



 Tile Layouts – If a user session change affects the tile that a camera is displayed on, then the tile will be refreshed with an error message indicating that the user can no longer view the video from the device due to permission change.

## **Customizing the Notification Message**

You can customize the text in the notification message to display specific messages. For example, when removing permission for a user to access a certain group, you can customize the notification message to **You have lost permissions to see France**.

To customize the text in the notification message:

- 1. Open the Remove Membership response plan and navigate to the **Properties** pane.
- In the Session Membership Changed Description field, enter a notification message, for example, type the following text: You have lost permissions to site France.
- 3. Run the response plan. A warning message appears with the customized message.

\land Warning	
	You have lost permissions to site France You have 17 seconds to comply.
	ОК

### **Session Changed Events on Server Devices**

The Session Changed event is raised when a user session is changed as a result of a group membership change within System Configuration, Admin Interface, or Response Plan shapes. To raise a session changed event:

- From the System Configuration > Computers folder, expand the Server object and then the Events folder.
- Right-click the Session Changed event and select React to Event > Run Response Plan > Create New Plan. A trigger and a response plan are created for the Session Changed event.
- 3. Rename the response plan, for example, Session Changed.
- 4. Open the response plan and configure the following:
  - a. From ActionShapes, drag and drop the Dynamic Action shape.
  - b. Click **Next** until the **Target Object** page and select the target as your computer name.
  - c. On the Actions page, click the Message Box field and select Static Value.
  - d. Type the message **Permissions have been changed**.
  - e. Add a Finish shape.
  - f. Save and close the Session Changed response plan.

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- 5. Log in to the Windows Client as another user that has permissions to both locations France and Spain, for example CNL User.
- 6. From the **System Configuration**, select **Users** > **CNL user** and in **Properties**, click **Member** of to view the groups, the CNL User is a member of.
- 7. Select a group and click **Remove** to remove to make the membership changes. A Warning message window displaying the time count appears. Click **OK** or wait for 20 seconds to continue. Meanwhile, on the main client where the **Session Changed** event was triggered, a **Permissions have been changed** notification message is also displayed.



## **Managing Alarms**

Managing alarms is a central feature of Control Center. It allows you to view prioritized alarms and manage these by executing related workflows. An alarm can be manually created or be created as a result of specific data being received from sub-systems or other objects. While managing alarms, users can access related resources such as intercom and CCTV, execute Process Guidance, use maps, generate reports and so on.

Alarms definitions are stored in Alarm Types. An Alarm Type defines what should create an alarm, its title, description, priority, linked workflow and so on.

Alarm Types comprises a wide range of functionality spanning the entire alarm handling process, from processing events and maintaining an alarm stack to resolving an alarm and generating a report.

It allows the user of Control Center to easily define what a new alarm is and what should happen when the alarm is activated and handled by an operator.

## Alarm Concepts

Concept	Description
Alarm	An Alarm is an instance of an Alarm Type that either requires action or has been handled and resolved. An Alarm has a unique identifier, a title, a description and a priority. It can be visible to user sin the Alarm Stack and be linked to a workflow. It can also be linked to a specific device or Alarm Point.
Alarm Handling Group	A definition of the conditions in which a specific user or user group can handle and resolve a type of alarm.
Alarm Point	An object (for example, Federated Server), Device (for example, Door) or a placeholder.
Alarm Stack	This is the user interface for operators that displays a list of Alarms.
Alarm Stack View	This is a set of configurations for the Alarm Stack that filters what Alarms are visible. There can be multiple Alarm Stack Views in the system, and they can be configured so that not every user can see every Alarm Stack View. In addition, the Alarm Stack View keeps the selected alarm row highlighted when scrolling through other alarms to enable interpretation of alarm values.
Alarm Type	An Alarm Type is a list of rules that determine whether an Alarm is created. Two different categories of Alarm Types exist, Classic Alarm Type and Correlated Alarm Types.

The following table describes the key concepts that make up alarm management.



Alert / Alert State	The visual formatting applied to an asset on a map or in the System tree as a result of an Alarm or a manual Alert activation
Classic Alarm Type	Classic Alarm Types operate on a single event as it comes into the Rules engine
Correlated Alarm Type	Correlated Alarm Types operate on one or multiple events. They provide the ability to define alarms that should only occur if several events appear within a specified time and geographical area or if specific events do not occur within a specified period of time.
Collation	Collation groups alarm based on the collation options. Collation occurs once all event matching has occurred and the Rules Engine has created an alarm. The collation rules are used to look for an existing alarm, and if one is found then the events that would make the new alarm will instead be attached to the existing alarm. Both Classic and Correlated Alarm Types support collation.
Event	A single notification from a device or other Control Center objects. The property types on the event are fixed, but the values of those properties are determined at run time. They will be stored in the database and processed against Alarm Types unless they are filtered out in the Connection Manager Event Viewer.
Rules Engine	The Rules Engine is one of the Control Center Windows services. It uses MSMQ to receive events, writes those events into the Pacific database and processes Alarm Types, Correlated Alarm Types, Alarm Type Modifiers, and Triggers. It uses SQL Service Broker and the Notification Service to communicate back to the Core service.
Service Level Agreements	Service Levels can be configured directly in the Alarm Types editor to determine duration and formatting options for all alarms in the system. Up to three service levels can be configured to update the icon, foreground color, background color and font of an alarm in the Alarm Stack or play an audio alert after the alarm is enacted. A VRP can also be executed for each service level to facilitate advanced actions for the service level breach. An activity is automatically logged against the alarm when each service level is breached.



## Alarms in the End-User Interface

The following table describes how alarms are displayed in the end user interface.

Name	Description
The Alarm Stack	The alarm stack is a user interface component that provides a view on alarms. A system can have any number of alarm stacks. An alarm stack can have one or more Views on alarms. When you install Control Center, a default System Alarm Stack is created.
System Alarm Stack	The System Alarm Stack provides a single point in the system to configure the event handling and alarm creation logic for Alarm Types. This includes a wizard for creating and editing Alarm Types, a wizard for creating and editing Alarm Stack Views, and editors for managing Activity Types, Resolution Types, and Service Levels. The System Alarm Stack is a stack of Alarms and Views held in the system.

#### Raising a Manual Alarm

From within a map, you can now right-click:

- an area of a map. This applies to Geographic scenes only.
- an object. This applies to both Geographic and Schematic scenes.

and quickly and easily raise a manual alarm for that map area or device. This is useful because it enables you to respond immediately to events that you can see on your map.

You can raise more than one manual alarm on object.

When raising manual alarms on a specific area of a geographic scene, you only raise one manual alarm. In other words, you cannot raise two manual alarms on the same co-ordinates.

When a manual alarm is raised on a device then the device becomes the alarm point and the device's location becomes the location for the alarm.

Once you have raised a manual alarm you can handle it:

- from your alarm stack view, or,
- if you have any defined, by process guidance, or
- by right-clicking and selecting Handle Alarm.

To raise a manual alarm:

- 1. Go to **System Explorer** from the **Main** screen.
- 2. Find the device on your map.
- 3. Right click the device and select Raise Manual Alarm.





- 4. A list of manual alarm types is displayed.
- 5. Select the alarm type you want. The Raise Alarm dialog displays.
- 6. Select the alarm type you want and, optionally, add a description. Select **OK**. If you are raising a manual alarm on an area of a geographic map, the icon associated with the alarm type is displayed. If you are raising a manual alarm on a device that has an alert state configured, the manual alarm displays with the configured alarm state, as shown below.



7. You can now handle the alarm in the normal way, for example, by right clicking the device and selecting **Handle Alarm,** from your alarm stack or process guidance window.

#### Handling an Alarm

In Control Center, alarms can be set for objects, for example, devices, non-devices, shortcuts, asset geofences and hot zones.

You can handle alarms, either from the Alarm Stack or by right-clicking one of the above and selecting **Handle Alarm**. Depending on the Control Center object whose alarms you want to view, you can do this:

- In System Explorer
- From a map, both scenic and geographic
- In System Configuration





Select an alarm to handle it. Depending on how you have configured Control Center, your **Process Guidance** window or another response plan displays, so you can see that your alarm has been handled.

If a Control Center object has more than 10 alarms, the **Handle Alarms** dialog displays. Select an alarm to enable the **Handle Alarm** button. Select the **Handle Alarm** button to display the **Process Guidance** window.

**Note**: you must have permission to handle an alarm.

#### **Adding Alarm Attachments**

Depending on how your Administrator has configured Control Center, you can add attachments when raising and handling alarms. (See <u>Configuring Alarm Attachments</u> for more information). This is useful for after-action reporting, or when handing over alarm responsibilities to an operator other than yourself. Attachments allow additional information associated with the alarm to be immediately available. For example, you may want to attach a snapshot from a video camera or a file from another system.

You can attach any file type, for example, PDF, Video, Audio and so on.

You must have type permissions to be able to add and view alarm attachments. See <u>Type</u> <u>Permissions</u> for more information.

In federated Control Center:

- Any alarms and attachments that are created on the local site are automatically federated to the NOC.
- If you want to link media objects to a remote alarm, you must make sure the media originates on the same site as the alarm.

#### Adding Attachments When Raising Alarms

**Note**: You can only do this if your Control Center Administrator has configured Control Center to display an alarm attachment display area when raising alarms.

You can add an attachment when raising an alarm.

- 1. Raise an alarm, for example, by right-clicking an asset on a map and select **Raise Manual Alarm**.
- 2. Go to the alarm attachment display area.

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#### 3. Either:

- Drag your media from Control Center **System Explorer** to the alarm attachment display area.
- Browse to the location of the external file and drag the file to the alarm attachment display area.
- Select Add and browse to the location of the external file.

#### Adding Attachments when Handling Alarms

You can use the Alarm Resolution Form (if you have Process Guidance or an Alarm Resolution Form configured in Control Center) to add attachments when handling an alarm.

- 1. Handle your alarm, for example, by right-clicking an asset on your map and selecting **Handle Alarm** or by double-clicking an alarm in your **Alarm Stack**.
- 2. From the Alarm Resolution Form, browse to the alarm attachment display area.
- 3. From the alarm attachment display area, you can:
  - Add attachments by:
    - Dragging your media from Control Center **System Explorer** to the alarm attachment display area.
    - Browse to the location of the external file and drag the file to the alarm attachment display area.

Alarm Resolution Form Door Forced Alarm on Door 1: 4					
1 Alarm Deta	1 Alarm Details				
<b>Alarm ID</b> 4	Alarm Type Door Forced Alarm	Event Location	Date/Time of Alarm 2020-06-18 10:12:20		
<b>Priority</b> 3	Alarm Point	Top Location	Event Count		
2 Alarm Acti	vity				
3 Add Comm	ients				
Add Comments					
4 Categorise	4 Categorise Alarm				
Resolution Type					
WorldMap 527.78 KB					
File Cou	int: 1		Total Size: 527.78 KB		

- Select Add and browse to the location of the external file.
- Select an attachment and select **Open** to view an attachment.
- Select an attachment ad select **Save** to save the attachment to your local computer.

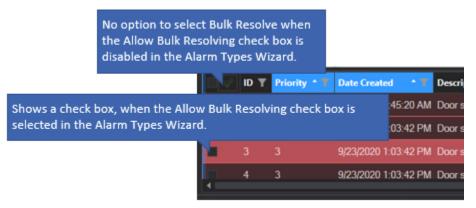


• Select an attachment and select **Delete** to delete the attachment.

#### **Bulk Resolving Alarms**

You can bulk resolve alarms. To do this:

1. From the Alarm Stack View, view the alarms that are displayed. Notice the check box that appears in front of the alarms in the Alarm Stack view for the alarms that have the Allow Bulk Resolving option selected in the Alarm Types wizard.



- 2. Select the alarms you want to bulk resolve. You could select one, more or all of them to be resolved.
- 3. Click on the green tick on the left corner of the **Alarm Stack** toolbar. The **Resolve Alarms** window opens up. A list of all the selected alarms to be resolved is displayed.
  - 🛛 📝 ID T Priority \* 1 Date Greated \* 1 Description Y Aarm Type Y Alarm Point Y Location Y Top Location Y State Y Status Y Count Y Last Rece
- 4. Choose the resolution type for the alarms from the drop down menu and enter the comment as required.

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Alarm ID	Ŧ	Description T	Site Name
19		Test Camera State Changed on Camera 4 on Video Server on Training Server 1	Local
21		Test Door State Changed on Door 1	Local
22		Test Door State Changed on Door 2	Local
23		Test Door State Changed on Door 3	Local
24		Test Door State Changed on Door 4	Local
25		Test Door State Changed on Door 5	Local
ct resoluti	on tyr	e for the alarms to resolve:	
		pe for the alarms to resolve:	
gineer On S	Site	be for the alarms to resolve: red in order to resolve the alarms.	
gineer On S	Site		
ineer On S	Site		

The selected alarms are resolved.

#### Notes:

- On upgrading from an earlier version of the software, an administrator must enable the Allow Bulk resolution of Alarms security policy in addition to enabling it in Alarm Types and Alarm Stack views. By default, the Allow Bulk resolution of Alarms security policy does not have users and groups added.
- When working in a Federated environment, if the Hub site is upgraded to 5.6, and if the Bulk Resolve Capability is enabled, then the users can bulk handle alarms at the Hub site. However, if the Node site is not upgraded to 5.6, then the Bulk Resolution Capability is not available to the users for resolving the alarms coming from the Node site.

#### Filtering in Alarm Stack View

You can filter alarms in the alarm stack using the filter options by one or more columns to show multiple alarms of the same criteria or locate specific alarms from an otherwise long list of alarms.

For example, you can filter the Alarm Stack to show any of the following:

- All alarms Training Server
- All priority 1 and 2 non-training server alarms where the service level is equal or greater than 2
- All priority 3 and 4



To filter alarms:

1. In the Alarm Stack View, click the funnel icon next to the column header whose alarms you wish to filter, for example, select ID. The following filter dialog displays.

✓ Select All	×			
✓ 38				
✓ 39				
✓ 40				
✓ 41				
✓ 42				
✓ 43				
Show rows with value that				
ls equal to	-			
And	•			
ls equal to	•			
Filter	Clear Filter			

2. Select a filter option, then type the required value based on the filter type and click Filter. The filter values are applied to the alarm stack view and only relevant items are displayed. The following filter options are available:

Filter Option	Applicable to:
<ul><li>is equal to</li><li>is not equal to</li></ul>	All filterable types
<ul> <li>Starts with</li> <li>Ends with</li> <li>Contains</li> <li>Does not contain</li> <li>Is contained in</li> <li>Is not contained in</li> <li>Is empty</li> <li>Is not empty</li> </ul>	String



<ul> <li>Is greater than</li> <li>Is greater than or</li> </ul>	Numeric types, DateTime, TimeSpan, and all types that use these operators
<ul><li>Is null</li><li>Is not null</li></ul>	All filterable nullable types

**Note**: The funnel icon appears enable in the Alarm Stack View to indicate the filter is active. To clear the filter, select Clear Filter.

#### Pinning and Minimizing the Alarm Stack

The System Alarm Stack display area is normally docked below the System Main window. If the alarm stack is allowed pinning, you will be able to minimize the Alarm Stack, either by clicking on the Pin on the top right corner of the window or by setting the **Is Pinned** property in the Setup Display window to **False**.

However, in minimized state, when a new alarm gets populated in the stack the title bar of the alarm stack starts to blink to alert you. You can choose to hover over the title bar to temporarily expand the window and view the alarms and then click anywhere on the application to collapse it.

If the window needs to be restored to its original state, you need to click on the title bar of the window and pin it.

#### System Alarm Stack Pinned

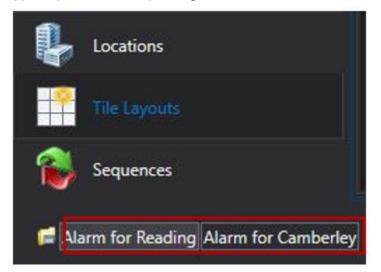
When the alarm stack is pinned, it remains expanded and all the alarms generated can be viewed in the alarm stack. You could also represent locations in the form of tabs or combine one or more locations into a group to be displayed in the alarm stack. Only those alarms for the selected location/group will be displayed in the stack. If an alarm for the other location/group is generated, you are alerted by a flashing tab and the count of alarms displayed against it. The color of the tab can be selected while creating groups.

# everbridge<sup>®</sup>

0	[enter customer name here] IPSecurityCenter - NOT FOR RESALE $ \square$ $ imes$
System Home	^
Sequences 4	System Main
	System Main
Type Search Text Here	
No Records Available	E 🚊 🎾 🍪 🔒 🍕 🖉 🔎 🖉 📊
	· · ·
	System Alarm Stack
	Alarm for Reading (4) Alarm for Camberley
Locations	ID T Priority * T Date Created * T Description
Tile Layouts	53 3 1/23/2019 9:36:32 AM Test Camera on Camera 5 on Video S
The Layouts	52 3 1/23/2019 9:36:28 AM Test Camera on Camera 3 on Video S
Sequences	
1/23/2019 2:48 PM	eallh Check: I. Error 🥙 Device Licenses: 15 / 1000 🍀 Administrator 🎍 DEVnetClient74.CNLUKDEV.com

#### System Alarm Stack Minimized

The system alarm stack can be minimized to a tab by clicking on the pin on the top right corner of the window or by setting the property **Is Pinned** to **False** in the System Display window. This is typically known as unpinning the window.



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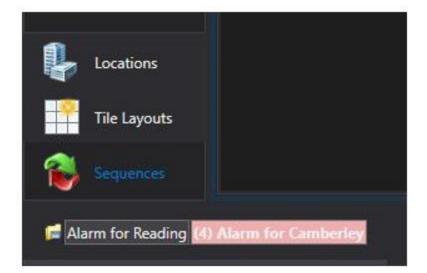


When an alarm arrives, you are notified of it with a flash on the tab. If working with groups, where one or more locations with a common criterion are grouped together, alarms arising from any of the location in the group causes the tab to flash to alert you. You can then hover the mouse to have a glimpse of the alarm stack or choose to pin it by clicking on the pin in the title bar.

0	[enter customer name here] IPSecurityCenter - NOT FOR RESALE	- 🗆 ×
System Home		^
Sequences 4	System Main	
	System Main	
Type Search Text Here		
No Records Available		s
System Alarm Stack		- (=)
😭 Alarm for Reading []	Alarm for Camberley	
D D	Priority *      Date Created *      Description	₹ Ali
53	3 1/23/2019 9:36:32 AM Test Camera on Camera 5 on Video Server on Training	Server 1 Te:
52	3 1/23/2019 9:36:28 AM Test Camera on Camera 3 on Video Server on Training	Server 1 Tes
🚅 Alarm for Reading 🔝	Alim. for combiner	
1/23/2019 2:50 PM	Alarm for Camberley ealth critect r criter '2' Device Licenses: 15 / 1000 🍰 Administrator 🎍 DEVnetClient74.Cl	NLUKDEV.com

**Note**: In the minimized state, only the alarms generated for the group that isn't selected is made to flash. If you need to view the alarms for the selected group, then click on the group or the locations under it for viewing any specific alarm for it.

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## Viewing Alarm and Alerts in Maps and System Tree

An Alert State provides a way to define a visual indicator that can be used to draw your attention to something that requires action, for example an alarm, however, an Alert State can also be applied to an object without the existence of an alarm.

When an Alert State is applied to an object in the system, for example, location, device, or asset geometry, the Alert State visual preferences are applied to the System Tree and the currently visible Scene if the alerted object is visible. In addition, the parent location(s) of the object can also be set to show in alert. Only the alert state color is shown in the System Tree, not the blinking. When the alert on an object is cleared because an alarm has been resolved, the visual state of the object returns to normal.

#### Viewing Recent Alarms and Events for Devices

The System Explorer provides filtering options for viewing alarms and events based on when they occurred over the course of 24 hours. You can right-click on a device and filter by the most recent alarms and events that occurred in the last 24 hours.

To view alarms that occurred over the course of last 24 hours:

1. Go to **System Explorer** and right-click on a device for which you would like to view the recent alarms for. The following filtering options appear:





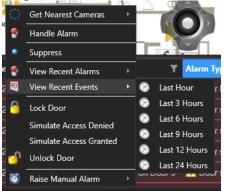
2. Click **View Recent Alarms** and select from the options to view by the required duration. The following summary page appears.

💡 Rec	ent Al	larms for 'Door 2	27'											<b>=</b>
rom D	ate	10/1/2020 5:43 /	AM 🗰 To Date	10/1/2020 2:43 PM		Refresh								
	ld 1	🛛 Priority 🝸	Date Created	Description	Y	Alarm Point	Y	Location <b>T</b>	Status	Y	Event Count 🝸	Resolving User 🔻	Resolution Type <b>T</b>	Date Resolved
Δ	50		10/1/2020 2:37:09 P	M Door state changed	on	Door 27		Example Organization	Unhandled					
Δ	49		10/1/2020 2:37:08 P	M Door state changed	on	Door 27		Example Organization	Unhandled					
Δ	48		10/1/2020 2:37:06 P	M Door state changed	on	Door 27		Example Organization	Unhandled					
Δ	47		10/1/2020 2:37:04 P	M Door state changed	on	Door 27		Example Organization	Unhandled					
	44		10/1/2020 2:35:51 P	M Door state changed	on	Door 27			Unhandled					

- 3. Additional filter options appear on the **Summary** page to filter the alarms by the following options:
  - o From Date
  - To Date
  - o ID
  - Priority
  - o Date Created
  - Description
  - Event Count
  - Resolving User
  - Resolution Type
  - Date Resolved

To view events that occurred over the course of last 24 hours:

1. Right-click on a device and click **View Recent Events** followed by the required duration.



2. Selecting the Last 24 hours option displays the following summary page.

Recent Events for 'Doo	r 7'										
From Date 9/30/2020 2:4	4 PM ₩	To Date	10/1/2020 2:44 PM	 Refresh							
Received Date Time *	Descriptio	on			Ŧ	Alarm Point	Ŧ	Location	Ŧ	Event Count	Y
10/1/2020 8:53:43 AM	Device Sta	te Chang	ed			Door 7		Building 11			
10/1/2020 8:53:43 AM	Custom St	ate Chang	ged			Door 7		Building 11			
10/1/2020 8:53:42 AM	Device Sta	te Chang	ed			Door 7		Building 11			



3. Similar to **Alarms Summary** page, you can also filter events using the additional options on the **Events Summary** page.

#### **Configuring Alert State Properties**

The Alert State has the following properties:

Alert State Blink Rate	Allows control of the frequency at which the alert halo applied to the resource flashes. The value is the number of times per second that the halo flashes. When the value is set to o, the halo appears without flashing. This only applies to the resource in the System Explorer tree. For backwards compatibility, the default for a new alert state is 1 per second.
Alert State Halo Radius	The Alert State Halo Radius can be set to small, medium or large. Medium is the default setting for new or upgraded Alert States. The radius of the large Alert State is twice that of a medium radius Alert State. The small Alert State is half the radius of the medium Alert State.
Alert State Halo Transparency	Allows control of the transparency of the Alert State Halo that is applied to the resource. Valid values for this property are decimal between o and 1 where o is fully transparent and 1 is fully opaque. The default transparency is set at o.6. Regardless of the value set for the transparency, the Alert Halo appears with a border that defines the edge of the Halo, for example.



Color	The color used to indicate that the resource is in this alert state. The icon for the resource on the map is surrounded by a halo of the selected color for the duration of the alert. Also, if the resource appears in the System Explorer, that row is also highlighted in the selected color.
Duration	The duration in seconds for which a resource remains in the alerted state. When this value is set to o, the resource being alerted remains in alert until the alert state is cleared.
lcon	The icon that is associated with the selected alert state. The icon for the resource changes to this icon for the duration of the alert. You can choose not to set an icon for an alert.
Parents to Alert	Determines whether parent locations are alerted when the resource is put into alert. This property enables the choice of parent location types to alert when this Alert State is applied to an object. Parents are evaluated by examining the location that is the immediate parent of the object being alerted, and the immediate parent of that location and so on until the entire list of parents is established. Locations in the list of parents with the selected location type also have the alert state applied to them. When the Alert State is cleared from the resource, all parent locations that were alerted also have the Alert State removed.
Priority	Enables association of a numeric priority to an alert state. A location may contain many devices and is therefore subjected to multiple simultaneous Alert States. When multiple Alert States are applied to an object only, then the highest Priority Alert State is shown. Valid values for this property are positive integers only. Therefore Priority 1 is the highest priority you can set.
Text	The text associated with the selected alert state. This text is pre- pended to the existing label text for the duration of the alert.

#### Alarm Alert Filtering on Maps

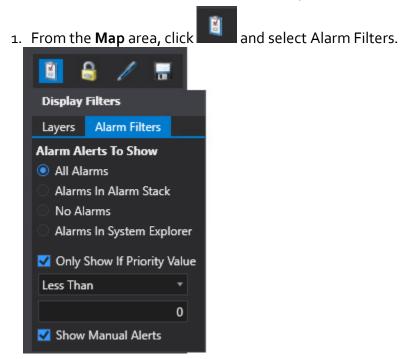
The alarm alert filter enables you to suppress the required alarm alerts that appear on the map based on the selected filter conditions, for example, to declutter the map halos on the global map. You can also apply a filter to show only alarm alerts that are displayed in the alarm stack for a selected site or display alerts based on its priority value. The alarm alerts that appear on the map may change based on the location selected in System Explorer if the Alarm Stack view has been set up to use location-based filtering. This is particularly useful when viewing maps on systems that are being federated to avoid a cluttered view especially when displaying large size alerts on the global map.



Before configuring the alarm alert filter, ensure you have configured the following options:

- A Schematic or Geographic scene that is associated with a location.
- Create an alarm type and configure it to Locations and Devices.
- Configure the alert state via the Alarm Types Wizard.

To filter alerts associated with alarms on the map:



- 2. Select from the following **Alerts to Show** filter options to filter the visible alarms in the Alarms Stack:
  - All Alarms Displays all the existing alarm alerts on the map. Use this setting to also remove the existing filter except when one of the check boxes remains checked.
  - Alarms in Alarm Stack Displays all alarms in the Alarm Stack.
  - **No Alarms** Hides all alerts from the map. Note: This setting does not take effect on manual alerts.
  - Alarms in System Explorer Displays alerts from the System Explorer.
  - Only Show if Priority Value Select this option followed by one of the conditions from the drop-down, and then specify the priority value to determine what alerts should be displayed on the map area. The following conditions are available in the drop-down:
    - LessThan The priority value of the current alerts should be less than the value specified here for the alerts to be displayed.
    - **LessThanorEquals** The priority value of the current alerts should be less than or at least equal to the value specified here for the alerts to be displayed.
    - **Equals** The priority value of the current alerts should be equal to the value specified here for the alerts to be displayed.



- **GreaterThanOrEquals** The priority value of the current alerts should be greater or equal to the value specified here for the alerts to be displayed.
- **GreaterThan** The priority value of the current alerts should be greater than the value specified here for the alerts to be displayed.
- **Only Show Alarm Alerts** Select this option to show only alarm alerts, which means any manual alert that was showing previously will disappear from the list.

The icon is displayed in blue once the filter is applied.

## 

To clear or reset the Alarm Alerts filter setting, select the **All Alarms** option. However, you cannot clear the existing filter, if one of the check boxes is checked.

## **Alarm Configuration**

Alarm Types are configured using a wizard. This process allows the user to configure an alarm in the system based on an event from an object and then determine other criteria for creating and handling the alarm.

An Alarm Type defines an event in the system and includes properties to determine how an alarm of that type is created. The first properties of an Alarm Type specify the conditions under which the alarm is created; these include which type of device or specific devices to monitor, which event on the specified device type or devices to monitor, which location the alarm type relates to and finally which schedule the alarm type applies to.

The Alarm Types wizard enables you to determine the following:

- Label, description, and priority
- If the alarm type is a manual alarm type or initiated by an event
- The type of object or device
- Specific objects or devices in the system to monitor and the type of event to monitor
- Which location(s) the alarm type is for
- During what time period the alarm should be created by defining a date/time schedule
- Conditions to further filter events
- Options to determine the alarm point for each event (with advanced options to cater for complex alarm point classifications)
- Description of the alarm, which can be easily controlled
- Specification of the method for collating events together
- Which values to populate custom columns with
- Which response plans to run when the alarm is created, handled, modified and resolved



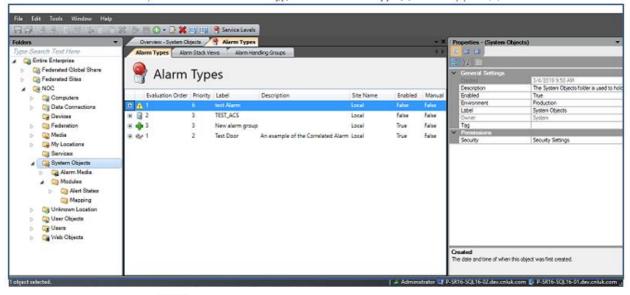
## Defining an Alarm Type

This exercise guides you to create a sample alarm type and the various steps involved in the whole process.

**Note**: The alarm type and grids created in this chapter are for tutorial purposes only and are not intended to fit an exact requirement. Use these steps as a reference point and delete the alarm types and grids that are not applicable.

To define an Alarm Type:

- 1. Open System Configuration > System Objects.
- 2. In the Overview tab, double-click Alarm Types. The Alarm Types Editor appears.



3. From the toolbar, click and select Add Alarm Type or right-click in the Alarm Types Editor and select New Alarm type from the context menu. The Alarm Type wizard opens. The Alarm Types wizard is a single interface to create and edit alarm types. The wizard comprises a series of dialogs to define the alarm type parameters and how the alarm behaves in Control Center.





Evaluation Order     Priority     Label     Description     Site Name       Image: Image	Enabled False True	Manu False False
■ 📲 2 3 TEST_ACS Local ■ 👍 3 3 New alarm group Local		False
	True	
E Rof 1 2. Test Door An example of the Correlated Alarm Local		False
	True	False
New Alarm Type		
New Correlated Alarm Type		

#### **Defining Basic Information**

The **Basic Information** page is used to name and prioritize the alarm.

Alarm Types Wiz	ard	-		$\times$
Basic Informat	tion			
Label:	Test Alarm			
Description:	✓ Enabled			
Priority:	3 💭 Override Priority With Alarm Point's Priority			
lcon:	Manual Alarm			
		Next >	Car	ncel

- 1. Enter the Label as, for example, **Test Alarm**. It is the name that is displayed in the alarm stack as an identifier for the alarm.
- 2. Enter a short description of the alarm, for example, **Alarm used for out-of-hours activity in the marketing office**. This is not mandatory and can be left blank.
- 3. Enabled is selected by default.

Note: Alarm types that are not enabled are not considered in alarm categorization.



The **Priority** field determines the priority for the alarm when it is created in the alarm stack. A fire alarm may be assigned a higher priority than an invalid access attempt to help users manage alarms based on their importance, for example. The priority of the alarm set is displayed for each alarm in the list in the **Alarm Types** section.

	1	Alaı	rm Types Ala	arm Stack \	Views Alarm Han	dling Groups			4 ⊳
	9		Alarm		bes				
			Evaluation Orde	r Priorit	y Label	Description	Site Name	Enabled	Manual
		⚠	1	6	test Alarm		Local	False	False
0			2	3	TEST_ACS		Local	False	False
0		₽	3	3	New alarm group		Local	True	False
0	8 6	<b>*</b>	1	2	Test Door	An example of the Correlated Alarm	Local	True	False

4. For alarms that are associated with an alarm point (device or placeholder) you can define that the priority should be set based on the alarm point priority. Priority for an alarm point can be configured using the **Priority** property available on any device or place holder object. To configure the priority for a device or placeholder, select the object in **System Configuration** and change the **Priority** property in the property grid.

: Pr	Properties - (4 Placeholders) 🔹						
:	2↓ 📼						
٥	General Settings						
	Created						
	Description						
	Enabled	False					
	Environment	Production					
	Icon						
	Label						
	Owner	System					
	Priority	5					
	Schedule	No schedule set					

- 5. To make the alarm type use the **Priority** property, check the **Override Priority with Alarm Point's Priority** checkbox.
- 6. Confirm that the priority of this alarm is set.
- 7. When an alarm appears in the Alarm Stack Grid, a unique graphical icon can be displayed to signify the alarm type. Existing system icons and any custom icons imported through the Icon Manager can be selected. A yellow warning triangle with an exclamation mark in the center appears in the Alarm Stack View by default.
- 8. Click [...] to select from the available icons and click OK.

Note: If no icon is selected, a red cross icon appears.

9. The **Manual Alarm** setting allows this alarm to be run manually, for example, they can be used for observed alarms. Leave the **Manual Alarm** unchecked and click **Next**.



#### **Alarm Creation Event**

This space is used to define the Object/Device Type and the events to be considered for it.

**Note**: The Alarm Types wizard is equipped with picking up events from any objects as opposed to only devices done previously. In the Alarm Types wizard, on the alarm creation event section, any object type can be selected from the list as shown in the picture below.

Alarm Types Wiza	rd	<u>22</u>		×
Evaluation - Ala	arm Creation Event			
Use this page	to determine the triggering event type.			
Object Type:	CNL Demo Simulator Gate			
	Match any object of this type			
Object(s):				
	Add Remove Clear			
Event:	💋 Gate Open	Ŷ	•	
	< Back	Next >	Car	ncel

Set how this alarm type is triggered using the Event field. The Event field is dynamically populated by events relevant to the device type selected.

1. Use the **Search** button to locate an object type that will trigger the alarm, such as sensor, camera, access point, and so on, and select it.

**Note**: Only devices currently in the system are presented in the dialog.

2. The Match any device of this type check box is enabled.

**Match any device of this type** enables this alarm type for all devices of the type specified by Device/Object Type. Leave this check box enabled to run this alarm type on all devices for the Object Type specified above.



To define an Alarm Type for a specific device, uncheck the **Match any device of this type** option and select the alarm event and then attach this alarm type to a device using the **Add** button.

**Note**: The Alarm Types wizard is equipped with picking up events from any objects as opposed to only devices done previously. In the Alarm Types wizard, on the alarm creation event section, any object type can be selected from the list as shown in the picture below.

Alarm Types Wiza	ird	Object	t Types	
valuation - Al	arm Creat	Filter:	Enter Filter Text Here	
		Label	h and a second se	Description
Use this page	to determine		a Audit Servers	Audit Server objects represent physical servers in the sy
Object Type:	None Set	1	Connection Manager Servers	Connection Manager Server
Object type.	None Sei		Connection Manager Services	Connection Manager Service
	✓ Match a		Contact Groups	Represents a group of Contacts.
Object(s):	-	E 4	Contacts	Contacts hold responsibility for operations within a Loc
object(s).			Core Services	The core service represents one or more servers which
			Dashboards	Dashboard
		E 8	Data Connections	Provides a connection to a local or remote datasource.
			Data Web Servers	The data web server represents one data web server wh
			Data Web Services	The data web service represents one or more data web
	Add		Date/Time Schedules	Date/Time schedules are used to specify when objects
		E .	Display Areas	Display Area objects represent containers that can host
Event:			Enterprise Settings Objects	Enterprise Settings
		-	Coderated Convers	Farlarstarl Saniar
			116	
		Sel	ect All Select None	OK Cancel
	1			

- 3. Set how this alarm type is triggered using the **Event** field. The **Event** field is dynamically populated by events relevant to the device type selected.
- 4. Select an event relevant to the object type. The event appears in the **Event** field.
- 5. Click Next.



#### **Alarm Creation Conditions**

😤 Alarm Types Wizard	-		×
Evaluation - Alarm Creation Conditions			
Use this page to specify conditions for the event.			
Location: 🚯 Region			
Schedule: 😰 24 x 7 Allow			
Asset Group:			
None Set			
Physical State:			
Threat Level: 💙 Any 🗸			
		_	
< Back	Next >	Can	cel

- 1. Use the **Search** button to select the location of the devices to which this alarm type applies, for example Region. The Location field is populated by the selection made.
- 2. The time of day or week may affect an alarm's applicability. For example, activity in and out of an access door during business hours is expected, however, activity through an access door during the night or over the weekend might raise an alarm. Alternatively, you

could allow 24x7 access. Use the **Search** button to select the schedules stored in Control Center, for example "24x7 allow". The Schedule field is populated by the selection made.

3. Select the asset group if any, that the device is a member of. You could search for it by looking up by name or by property.

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😤 Alarm Types Wizard	-		$\times$	😤 Alarm Types Wizard - 🗆 🗙
Evaluation - Alarm Creation Conditions				Evaluation - Alarm Creation Conditions
Use this page to specify conditions for the event. Location: None Set				Use this page to specify conditions for the event. Location: Region
Schedule: None Set Asset Group:				Schedule: Schedu
Gate Assest Group				Property Operator Destination
Physical State: Threat Level: 🖋 Any 👻				Physical State: Threat Level: Created Description Enabled Label
< Back N	lext >	Ca	ncel	Tag < Back Next > Cancel

When you are looking up by property, the drop-down menu gives you various options of property values you could search the asset group on. You could also define custom properties to be included here. You could specify a condition by a property value of an asset group, that is evaluated when a device belonging to the asset group raises an event configured in the alarm.

- 4. The **Physical State of the Alarm Type** is a user-defined field used to determine the physical state of the alarm when created in the alarm stack. This can later be modified to indicate a change in the physical state based on subsequent events. For example, an access control alarm might be created with the physical state of **Open** which would indicate the state of the door when the alarm is created. The state can then be modified to **Closed** when the corresponding event for the same door is received. In this example, the initial physical state of **Closed** would be specified on this page.
- 5. Finally, the threat level can be specified as a condition or left for any threat level to be considered for triggering an alarm.

#### Alarm Creation Event Conditions

Additional conditions can be applied to alarm types to further refine their applicability. For example, an alarm type may be set to raise an alarm if a door is accessed outside normal working hours. However, security personnel patrolling the premises and presenting their key fobs at access doors should not raise an alarm.

An alarm type can require several conditions to be met. Keep adding conditions to refine the query. By default, **Event Conditions** is always empty. You could choose not to specify any conditions here and proceed to the next step and it is a considered a valid configuration.



	ill match based on any of	perties. If you include the same property the values. All unique properties must	
type of source variable you selected a source variable f	have chosen. If you see n irst.	stination variables will be specific to the o destination variables, ensure you have	
Source	Operator	Destination	
Event Property		Event Property	
Object Property	Equals	Object Property     Constant Value	
		Constant value	
Date	~	09/04/2019 00:00:00	
Date Date	×	09/04/2019 00:00:00 💌 🕶	

If you choose to define the condition and select **Add**, the above screen is displayed. You could select an event or object property to specify a condition and select **OK**. The condition is added to the list.

#### Conditions Queries

This provides, for instance, the ability to evaluate an event property value that matches a custom property of the device that triggered the alarm.

Field	Purpose
Source	The Source is the event or alarm point (device) property that we want to evaluate.
Operator	Defines the validation condition operator, for example, equals. Options include equals, notequal, lessthan, lessthanequal, greaterthan and greaterthanequal.
Destination	The destination is the value we want to compare with. This can be a dynamic value such as a value from the event or Object (device) or a constant value (for example, Denied).

Click Next to continue.

#### Alarm Point

The Alarm Point is displayed in the Alarm Stack as a column. By default, the Alarm Stack displays the Event Originator as the Alarm Point. An example of this would be of an event originated from a door, for example, a Door Forced event.



🔮 Alarm Types Wizard	-		×
Alarm Point			
Use this page to determine the alarm point that will be associat O Use Event Originator O Use Event Property	ted with the a	ılarm.	
Property:	Ŷ		
Find Placeholder			
Property:	~		
Use advanced			
		< v	
Create if not found			
< Back	Next >	Ca	ncel

You could also specify **Event Property** as an alarm point. An example of this would be if the event contained a reference to an alarm point. For instance, a **Door raised a Reader Tamper** event and the event contained a reference to a specific reader.

In some cases, there is no pre-defined object to raise the event from. A basic integration might only provide a generic event source that raises all events. The event might contain a property such as Door ID. This can be used to create a Placeholder. This is an object representing a more specific device, for example, a door. A Placeholder can be plotted on a map, added to a location and so on, similar to a specific object. In this case, the **Find Placeholder** option can be used to identify the placeholder.

You can also use a script to identify the Placeholder, if for instance two event properties must be used in combination to create a unique reference. Placeholder script only allows the '+' and '&' operators for string concatenation.

If a Placeholder is not found, the **Create if not found** option specifies that the Placeholder should be created. The Placeholder is created in the same folder as the owning device.

Click Next to continue. The Custom Column Mapping page appears.

#### **Custom Column Mapping**

The Alarm Stack Grid can be customized to include additional information in new columns.

Any event data or static value can be used. An event can include location, access point type, access key, date and time and if the access was successful or not, for example.

Up to three additional data points, of each data type, can be included in the Alarm Stack Grid. (Up to twelve additional columns may be added but cannot exceed three integers, three text items, three Boolean items, and three date/time items).

1. Click Add. The Custom Column Mapping panel appears.



😤 Alarm Types Wizard	-		×			
Custom Column Mapping						
Use this page to populate custom columns with data from the the event if required.	e prope	erties in				
Custom Column: Custom Text 1	*					
Event Property     Static Value     Event Property:     Device Identifier	*					
OK Ca	ncel					
Add Edit Remove Clear						
< Back N	ext >	Ca	ncel			

- 2. Click the **Custom Column** drop down and select the data format required for the additional column to display.
- 3. Select to populate the column with an event property value or a static value. If **Static Value** is selected, enter the value in the static value field. If event property is selected, the **Event Property** drop down list is populated with the available data held about the event stored in the selected format.
- 4. Click the **Event Property** drop-down to select a data item and click **OK**. The **Custom Column Mapping** panel now contains the additional column to display.

Use this page to populate the event if required.	custom columns with data from t	he properties i
Custom Column	Event Property	Static Val
Custom Text 1		Test
a C		_



5. Click Next. The Alarm Description page appears.

#### **Alarm Description**

To override the default **Alarm Description**, use the script editor to write custom script. Select the **Override Default Alarm Description** checkbox to enable the script editor.

😤 Correlated Alarm Types Wizard	-	
Description		
Use this page to determine how the alarm description is generated.		
Override Default Alarm Description		
My.AlarmType.Label		~
< Back	Next >	Cancel

The description column in the alarm stack can be set using the script editor based on properties from the alarm type, alarm point and the event.

Click Next. The Collation and Alarm Actions page appears.

#### Enabling Bulk Resolutions of Alarms

To resolve bulk alarms, you must first enable the bulk resolve settings in the Alarms Type wizard.

- 1. From **System Objects**, double-click the **Alarm Type** that you want to allow bulk resolving for. The **Alarm Type** wizard opens.
- 2. Click Next until you are on the Collation & Alarm Actions page.
- 3. Select the **Allow Bulk Resolving** property for the alarm type you want to bulk resolve.



😤 Alarm Types Wizard			-		×
Collation & Alarm A	ctions				
Collation:					
Collate by Loca	tion				
Collate by Alarr	n Point				
Collate by Alarr	n Type				
Collate by Track	ID				
Collate by Even	t Property:			$\sim$	
Alarm Actions:					
Alarm Created:	🎨 None Set				
Alarm Handled:	🎨 None Set				
Alarm Modified:	🎨 None Set				
Alarm Resolved:	ঝ None Set				
Alert State:	Mone Set				
Threat Level:	No change			~	
Allow Bulk Resolv	ing				
		< Bac	:k Next >	Car	ncel

4. Click **Next** until you are on the last page and then click **Finish**. The Alarm Type is created with the **Bulk Resolve** option enabled.

#### Notes:

- On upgrading from an earlier version of the software, you must enable Allow Bulk resolution of Alarms security policy in addition to enabling it in Alarm Types and Alarm Stack Views. By default, the Allow Bulk resolution of Alarms security policy does not have users and groups added.
- When working in a federated environment, if the Hub site is upgraded to Control Center Version 5.6, and if the **Bulk Resolve** capability is enabled, then the users can bulk handle alarms at the Hub site. However, if the Node site is not upgraded to Control Center Version 5.6, then the **Bulk Resolution** capability is not available to the users for resolving the alarms coming from the Node site.

#### **Collation and Alarm Actions**

To reduce the number of alarms appearing in the Alarm Stack, it is useful to collate events by their Location, Alarm Point, Alarm Type, Track ID, or by Event Property.

For example, two cameras located in a long corridor generate motion detection events and detect something as movements are detected on the passageway. Instead of displaying in the Alarm Stack Grid twice, these two events can be collated. In the Alarm Stack, one alarm item appears with two events referenced.



In the same way, events with the same Location, Alarm Point or Alarm Type are collated into one alarm.

When multiple events are collated into one alarm, the alarm created response plan is only run once, when the first event occurs.

**Warning**: Care must be taken when collating Alarms. Alarms collated by Location are appended to the first event, whatever the alarm type. A priority 1 event could be collated in the Alarm Stack with events of lesser priority.

Using the example above, the two cameras generating motion detection events would create one alarm with two events. The Generated Alarm Plan and the Alarm Handled Response for the first event would be used.

## **Collation vs Grouping**

You can group alarms. This is configured in the Alarm Stack View editor. Collating events differs to grouping them. Grouped alarms are included in the Alarm Stack in one collapsible section. Collated alarms appear as one alarm.

## Alarm Actions

The Alarm Actions allow you to specify a response plan that is executed when the alarm is created, handled, modified, or resolved. Typically, the response plan to show the corresponding alarm process guidance would be specified as the response plan to run when the alarm is handled.

Additionally, you can specify an alert state for the alarm type. When set, the corresponding alarm type will be placed in and out of the alert state when the alarm is created and resolved.

😤 Alarm Types Wizard			-		$\times$
Collation & Alarm A	ctions				
Collation:					
Collate by Loca	tion				
Collate by Alar	n Point				
Collate by Alar	n Type				
Collate by Trac	( ID				
Collate by Ever	t Property:			$\sim$	
Alarm Actions:					
Alarm Created:	🎨 None Set				
Alarm Handled:	🎨 None Set				
Alarm Modified:	🎨 None Set				
Alarm Resolved:	🎨 None Set				
Alert State:	🕅 None Set				
Threat Level:	No change			~	
Allow Bulk Resol	ing				
		< Back	Next >	Car	ncel

#### Alarm Created

The Response Plan configured against the Alarm Created action will execute when any alarm is created.



#### Alarm Handled

The Response Plan configured against the Alarm Handled action will execute when a user clicks to handle an alarm that is currently unhandled in the Alarm Stack, and the user is not currently handling another alarm. Typically, the corresponding alarm process guidance is specified as the response plan to run when the alarm is handled.

#### Alarm Modified Alarm Action

The Response Plan configured against the Alarm Modified action will execute when any alarm property is changed, it will however not execute if additional events are linked to the alarm.

In a federated system, a local Response Plan can be configured against the action on all federated sites.

🔗 Alarm Types Wizard			_		$\times$
Collation & Alarm A	ctions				
Collation:					
Collate by Loca	tion				
🗹 Collate by Alar	n Point				
Collate by Alar	n Type				
Collate by Trac	c ID				
Collate by Ever	t Property:			$\sim$	
Alarm Actions:					
Alarm Created:	🌯 None Set				
Alarm Handled:	🌯 None Set				
Alarm Modified:	🎨 None Set				
Alarm Resolved:	🎨 None Set				
Alert State:	🞯 None Set				
Threat Level:	No change			~	
Allow Bulk Resolution	ving				
		< Back	Next >	Can	cel

The Alarm Modified action is also available for correlated alarms.

Once a Response Plan has been selected for an Alarm Modified action, relevant variables will be added to the plan automatically. These include Alarm Type, Alarm ID and Site (if federated).



Variables	*
0	1
System	
AsenD Sharing	
ApenPort Open	000
Alars Tape	000
Current Server	000
SateGraded	000
Descaption	000
DivertCourt Xihala Norman	
Eventizoation	000
SandingClert	000
3 Handingther	000
a kon	Conternal Conternal
Pakedia:	Contrast.
Patentilep	Colored
Physical Rate	000
Plorty Whole Runter	Octores of
RenderFederatorGenice RenderFederator/Service	Conternal Conternal
Resolution Type	Contract of
Resilvegber	Contariant.
Salavel Made Nation	Conternal
Status Test	Catorial C
TopLocation Location	

#### Alarm Resolved

The Response Plan configured against the Alarm Resolved action will execute when an alarm is resolved.

In a federated system, a local Response Plan can be configured against the action on all federated sites.

The Alarm Resolved action is also available for correlated alarms.

Once a Response Plan has been selected for an Alarm Resolved action, relevant variables will be added to the plan automatically. These include Alarm Type, Alarm ID, Resolving User, Resolution



## Type and Site (if federated).

Variables	•
💠 🛙 🧷 🗶 🖪 🙆 🕥	
System	
MamID Whole Number	Optional
MamPoint Object	Optional
Alam Type Text	Optional
Current Server Server	e a a a a a a a a a a a a a a a a a a a
DateCreated Date/Time	Optional
Description Text	Optional
EventCount Whole Number	Optional
EventLocation Location	Optional
HandlingClient Generic Client	Optional
BandlingUser	Optional
Icon Text	Optional
ParkedRag True/False	Optional
ParkedStep Text	Optional
PhysicalState Text	Optional
Priority Whole Number	Optional
Remote Federation Service Remote Federation Service	Optional
Resolution Type Text	Optional
ResolvingUser User	Optional

#### **Threat Level**

You can raise the Threat Level by selecting the options in the drop-down list.

#### **Bulk Resolution**

Select the **Allow Bulk Resolving** property for the alarm type you want to bulk resolve. By default, the option is not selected.



🔗 Alarm Types Wizard			-		×
Collation & Alarm A	ctions				
Collation:					
Collate by Locat	tion				
Collate by Alarn	n Point				
Collate by Alarn	п Туре				
Collate by Track	ID				
Collate by Event	Property:			$\sim$	
Alarm Actions:					
Alarm Created:	🎨 None Set				
Alarm Handled:	🌯 None Set				
Alarm Modified:	🎨 None Set				
Alarm Resolved:	🎨 None Set				
Alert State:	🕅 None Set				
Threat Level:	No change			~	
Allow Bulk Resolv	ing				
		< Back	Next >	Can	cel

Click Next to proceed to Alarm Handling Groups.

## Alarm Handling Groups

From the Alarm Handling Groups, you can specify Alarm Handling Groups to allow only certain user or User group to handle and resolve alarms. In addition, you can configure comprehensive filter conditions for Alarm Handling Groups depending on your requirements. For more information, see <u>Configuring Alarm Handling Groups</u>.



😤 Alarm Types Wizard	_		$\times$
Alarm Handling Groups			
Use this page to specify alarm handling groups, which allows you to limit who ca resolve an active alarm. By default, if no alarm handling groups are specified, all permission to view an alarm can handle and resolve the alarm.			
All users can handle/resolve this Alarm Type			
Star Group 1			
Select an Alarm Handling Group to apply to this Alarm Type: 🔉 Group 1			
Add Remove Clear			
< Back	Next >	Car	ncel

To configure Alarm Handling groups in the Alarm Types Wizard:

- Select the All users can handle/resolve this Alarm Type option, if you want any user to handle or resolve the selected Alarm Type. Alternatively, if you want to specify an Alarm Handling Group to be able to handle the selected alarm type, clear the check box and then add a group manually.
- 2. Select from the available Alarm Handling groups from the drop down list and click **Add**. You will see the group added in the center panel of the screen.
- 3. Click **Next** to go to the **Service Level Agreement Overrides** page.

**Note**: If the Alarm Type is linked to multiple handling groups, then each one of them will be processed to verify if the alarm can be handled.

## Service Level Agreements Overrides

Each alarm type can be configured to override the default service levels (see <u>Bulk Resolving Alarms</u>). By default, each alarm type will be configured to use the default service levels. Alternatively, each level can be disabled or overridden (enabled) accordingly.



Level 0	Level 1 Le	vel 2 Level 3			
	Lesson of the s				
E	nabled:	🔘 Enabled 🖲 Us	e Default		
le	ion:	Override Icon			
F	ore Color:	Black	~		
В	ack Color:	White	с. С		

Click **Next** to go to the **Summary** page.

## Summary

The **Summary** page appears, listing the details of the Alarm Type.

🔗 Alarm Types Wizard		$\times$		
Summary				
Name:	test Alarm			
Description:				
Enabled:	False			
Priority:	6			
Object Type:	CNL Demo Simulator Gate			
Objects:	Any CNL Demo Simulator Gate Device			
Location:	Region			
Schedule:	24 x 7 Allow			
Asset Group:	Property "Created Equals 4/8/2019 12:00:0	0 AM"		
Physical State:	None			
Event Type:	Gate Open			
Event Conditions:	Date Equals 4/9/2019 12:00:00 AM			
Collation Options:	Events will be collated by the following: - Alarm Point - Alarm Type			
Alarm Handling Groups:	Group 1			
Service Level Options:	Default service levels will apply.			
Click Finish, to commit cha	anges and close the wizard.			
	< Back	Finish	Ca	ncel

Confirm the Alarm Type details and click **Finish**. The alarm type appears in the **Alarm Types Overview** window.



# Editing an Alarm Type

To edit an Alarm Type:

- Open System Configuration > System Objects and double-click Alarm Types. The Alarm Types Editor appears.
- 2. Highlight the alarm type in the **Alarm Types Editor** and click the **Edit** button in the toolbar.



3. Alternatively, select the alarm type in the **Alarm Types Editor** and double click or rightclick on the empty area and select **Edit**. The **Alarm Type** wizard appears populated with the alarm type data ready to edit.

	Evalu	ation Order P	hionity	Label	Description	Site Name	Enabled	Manua
	1	6		test Alarm		Local	False	False
	2	3		TEST_ACS		Local	False	False
8	4 3	3	ļ.	New alarm group		Local	True	False
ŧ.	10yr 1	2		Test Door	An example of the Correlated Alarm	Local	True	False
				New	Alarm Type			
				Summer and summer and summer and	• Alarm Type • Correlated Alarm Type			
				Summer and summer and summer and	Correlated Alarm Type			
				Nev Edit	Correlated Alarm Type			

# **Deleting an Alarm Type**

To delete an Alarm Type:

- Open System Configuration > System Objects and double-click System Alarm Stack in the Alarm Types editor. The Alarm Types editor appears.
- 2. To delete an alarm type, highlight the alarm type in the **Alarm Types** editor. Click **Delete** (red circle) in the toolbar.



3. Alternatively, right-click over the alarm type in the **Alarm Types** editor and select **Delete**.

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Evaluation Order	Priority	Label	Description	Site Name	Enabled	Manua
m 🗥 1	6	test Alarm		Local	False	False
R 🔄 2	3	TEST_ACS		Local	False	False
# 👍 3	3	New alarm group		Local	True	False
a ny t	2	Test Door	An example of the Correlated Alarm	LOCA	True	False
		Nev	s Alarm Type			
		The second se	v Correlated Alarm Type			
		The second se				
		Nev Edit				

## **Correlated Alarms**

Correlated Alarms provide the ability to define alarms that should only occur if one or more events occur/do not occur, based on the conditions specified on the object within a defined time.

When an event comes into the Rules Engine, it is evaluated against the list of Correlated Alarm Types defined within the system. During this process, previous events can be referenced and added into evaluation. Once the Rules Engine has decided that a new Alarm needs to be created, any existing alarms based on these events can optionally be resolved or reset.

K I D	Cverview - System Objects								
	_			Alarm Type				<b>×                                    </b>	
<b>–</b> '	Alarm Types Alarm Stack Views Alarm Handling Groups								
	Search Alarm Types								
		Evaluation Order	Priority	Label	Description	Site Name	Enabled	Manual	
•	≙	1	6	test Alarm		Local	False	False	
۲	-	2	3	TEST_ACS		Local	False	False	
	≁	3	3	New alarm gro		Local	True	False	
•	<b>*</b>	1	2	Test Door	An example of the Correlated #	Local	True	False	

Correlated Alarm Types are listed along with other Classic Alarm Types. You might want to describe them appropriately to distinguish between them in the list.

Alarm Types cannot be deleted if there are any alarms in the system of their type. This includes alarms that have been resolved. Alarms should be archived and removed from the live Pacific database if their Alarm Types need to be deleted. This applies to both Classic and Correlated Alarm Types.

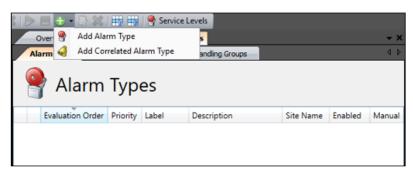
With Classic Alarm Types, the order that Alarm Types appear in the list affects the way alarms are created. Each event can only create a single alarm from a Classic Alarm Type and they are evaluated in the order shown in the list. A single event can result in multiple Correlated Alarm Types, so the order shown here is unimportant.



## Creating a Correlated Alarm Type

To create a Correlated Alarm Type:

- From System Configuration > System Objects, double-click the Alarm Types object. The Alarm Types editor appears.
- 2. Right-click on the empty space in the center pane and select **New Correlated Alarm Type** or click the **Add** button on the **Menu** bar.



A wizard guides you through the process of creating a new Correlated Alarm Type.

## **Correlated Alarm Basic Information**

Use the **Basic Information** dialog to configure the basic information for a new Correlated Alarm Type. The **Label** provided here shows in the **Alarm Type** column of the Alarm Stack.

Correlated Alarm	n Types Wizard	-		×
Basic Informat	ion			
Label:	Door Alarm			
Description:	A new Correlated Door Alarm with 3 events			
	✓ Enabled			
Priority:	2 V Override Priority With Alarm Point's Priorit	у		
lcon:	<u>(1)</u>			
	N	ext >	Car	ncel

The **Description** field only shows in the **Alarm Types Management** dialog. This allows for multiple alarm types to appear the same but easily differentiated with further details to it, during commissioning.

If the **Enabled** box is not checked, the Correlated Alarm Type is not evaluated when a new event comes in. However, events raised while the Correlated Alarm Type is disabled may be correlated into an Alarm created later.



If the **Override Priority** box is checked and the Alarm Point has a value for Priority, that value is used as the priority on a newly created alarm. Otherwise, the value provided here is used.

The icon specified here is used in the Icon column of the Alarm Stack. A default icon is provided

which can be changed at any point by clicking on the ext to the icon. You can choose any icon from the standard set or custom set and hit **OK**. The new icon chosen is set for the correlated alarm

## **Correlated Alarms Event Types**

This screen is used to select what types and sources of event form a part of this Correlated Alarm Type.

🔗 Correlated Alarm Types Wizard	_		$\times$
Event Types			
✓ These events must happen in order The events must occur within a period of 5 → Minute		Remove	
	lext >	Can	cel

Initially the list is empty, and at least one event must be configured to move on. There is no upper limit to the number of events that can be included. Events added will be displayed in the center box

and the order in which they need to occur can be changed by using the <sup>M</sup> button on the right. Events can be added by clicking the **Add** button, and entering the details on the following screen.



😤 Correlated Alarm	Types Wizard —		×
Event Types			
Object Type:	<ul> <li>CNL Demo Simulator Door</li> <li>✓ Match any object of this type</li> </ul>		]
	Access Granted Access Granted Event Access Denied Access Denied Event		
	Stolen Badge Stolen Badge Event Expired Badge Expired Badge Event Door Held		
	Door Held Door Forced Door Forced		
	Card Watch Card Watch Device State Changed Raised when the online state of a device changes	5.	
	Custom State Changed Raised when the online state of a device changes	5.	
Event Type:	Save Event Type		]
	< Back Next >	С	ancel

The **Object Type** option is used to pick the device that raises the event of interest. By default, the event will be matched from any source device, but this can be restricted by unchecking the **Match** 

**any** box and supplying a list of devices. Clicking the button, opens the **Object** window from which you can choose an object from the available list and select **OK**.

Object Types	×
Filter: Enter Filter Text Here	
Label	Description
Access Control Training Doors	Trainig door for Access Contr 📤
Access Control Training Servers	Trainig server for Access Con
Avigilon Control Center Cameras	We've re-engineered Avigilor
Avigilon Control Center Servers	We've re-engineered Avigilor
CNL Demo Simulator CADs	CNL Demo Simulator CAD 😑
+‡+ CNL Demo Simulator Cameras	CNL Demo Camera
🔲 月 CNL Demo Simulator Doors	CNL Demo Simulator Door
CNL Demo Simulator Elevators	CNL Demo Simulator Elevato
🔲 🧊 CNL Demo Simulator Facial Recognition Cameras	CNL Demo Simulator Facial F
CNL Demo Simulator Fences	CNL Demo Simulator Fence
🔲 📫 CNL Demo Simulator Gates	CNL Demo Simulator Gate
CNL Demo Simulator Hardwares	CNL Demo Simulator Hardwa
CNL Demo Simulator Inputs	CNL Demo Simulator Input
CNL Demo Simulator Lights	CNL Demo Simulator Light
CNL Demo Simulator LPR Cameras	CNL Demo Simulator LPR Ca 👻
< III	•
Select All Select None	OK Cancel
0/26 Items selected	

The Event Type can be selected from the available events on that object using the drop-down box at the bottom of the Event Types window. After selecting the event for the object, click on the Save Event Type Button to save the event.

Upon saving the events, the Event Types page will look as shown below.



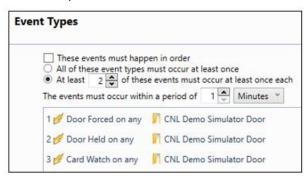
en	nt Types		
	These events must happen in order The events must occur within a period of 5 🔦 Minutes 🎽		
	1 💋 Door Forced on any 🛛 📔 CNL Demo Simulator Door		
	2 💅 Card Watch on any 🛛 🛐 CNL Demo Simulator Door		
	3 💅 Door Held on any 🛛 🗾 CNL Demo Simulator Door	*	
	Add Edit	•	

In the above example, a basic correlated alarm is created when all three listed events occur in the exact order as listed above within a 5-minute window. Further conditions can also be configured.

It is also possible to create an alarm where the order of events seems less significant. Deselect **These** events must happen in order. This displays some extra options.

<ul> <li>These events must happen in order</li> <li>All of these event types must occur at</li> <li>At least 2 of these events must</li> </ul>	east on	ice	anch
The events must occur within a period of		Minutes	

The first radio button causes the alarm to be created when all the events configured, occur at least once within one-minute window from the time the first event occurred, regardless of the order in which they occur.



The second option allows for optional events to be included in an alarm. In this example, the alarm will be raised with any combination of 2 or more of the events, that is, a **Door Forced** event and a **Card watch** event. If a **Door Held** event arrives after the alarm has been created, but within 1 minute of the other events, it will be added to the alarm.



## **Correlated Alarm Conditions**

Unless configured otherwise, any event of the correct type from one of the source devices selected will be taken into consideration in the alarm. The conditions page is where filters can be applied that will remove events from consideration.

🔗 Correlated Alarm Types Wizard	-		×
Conditions			
Alarms will only be raised during this schedule 🚇 None Set An alarm will be raised if none of the following conditions rej	ect an ev	ent.	
AND Add Rule Add Group			
	Nexts		
< Back	Next >	Ca	ncel

The default settings on this page are a valid configuration, so you can continue without changing any settings.

If no schedule is set, alarms will be created at any time. If a schedule is added, an alarm will only be created when the schedule is active. It may include events that occurred before the schedule became active.



Condition Editor	-		×
Select the type of condition to create			
Event Property Match			
Object Is In Asset Group			
Objects Are In Same Asset Group			
Object Is In Viewshed			
Objects Are Within Range			
Event Happened Multiple Times			
Events Relate To The Same Object			
Event Did Not Occur Within Specific Time			
	OK	Cancel	

**Note**: Nested conditions are restricted to **Event Property Match**. In other words, when you are configuring nested conditions then the Condition Editor only displays **Event Property Match**.

#### **Correlated Alarms Event Property Match**

When creating a correlated an alarm, you can configure a condition that validates against

- a property of an event, or
- a static value in a property of an event.

For example, you may want to create

- an alarm if there are door forced events on the same date
- an Intrusion alarm with higher priority if an intrusion alarm and door forced alarm happens in the same Intrusion Zone.

To configure this:

- 1. From the **Event** drop-down list, select one of the events you specified in the **Events Type** page in the **Correlated Alarms Type** wizard event. This is the event whose properties you want to validate against before creating the alarm.
- 2. From the **Property** drop-down list, select a property of the event you specified.
- 3. From the **Operator** drop-down list, select the operator you require.
- 4. For **Value**, select either:
  - **Property**. Enter a static value that you want Control Center to validate against before the alarm is created.

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Condition Ed	itor	_		×
	r <b>operty Match</b> single property from one of the events to a sta	itic value.		
Event	📔 CNL Demo Simulator Door💋 Door Forced	ł	Ý	
Property			~	
Operator	Equals		~	
Value	Property O Event			
	11/03/20	20 00:00:	00 🗘 🕶	
	Ok	Back	Cancel	

#### $\circ$ **Event**.

- a. From the **Event** drop-down list, select one of the events you specified in the **Events Type** page in the **Correlated Alarms Type** wizard event. This is the event whose properties you want to validate against before creating the alarm.
- b. From the **Property** drop-down list, select a property of the event you specified.

Event		E 9000 Door SForced	*
Property		on Zone Name	~
Operator	Equals		~
Value	Proper	ty 💌 Event	
	Event	C-CURE 9000 Intrusion Zone C-CURE Cust	•
	Property	AIntrusion Zone Name	



#### Correlated Alarm Type in Asset Group

This condition has two options as seen in the picture below:

Condition Editor	-		×	Condition Editor –      X
<b>Object Is In Asset Group</b> Require that the event originating objects are in a single sp	ecified a	asset grou	ı	<b>Object Is In Asset Group</b> Require that the event originating objects are in a single specified asset grou
Asset Group				Asset Group O by lookup
🚮 Gate Assest Group				Property Operator Destination
				Datetime v v
				Created
				Datetime
				Description
				Enabled
				Label
Ok	Back	Cancel		Tag Ok Back Cancel

- Asset Group by Lookup: This condition requires that all events are contained in the specified Asset Group. The desired asset group can be searched and selected here.
- Asset Group by Property: This condition requires that all objects in the asset group satisfy the criteria specified here. The drop-down menu for the property has various options to choose from, giving a greater flexibility for the user to filter the events, for creation of alarms. The Operator drop-down menu will show options based on the property selected and destination will allow you to input values depending on the property chosen for validation.

This feature comes in handy in a federated environment where the NOC is able to reference the Asset Groups from all its connected sites. Normally alarm types are created at the NOC and published down to all sites. While creating a correlated alarm for an asset group, the assets group looked up would essentially be local to NOC. For referencing the asset groups from all the child sites, you could use **Object Is In Asset Group by property** feature which specifies a generic condition for search. This helps looking for asset groups on all sites matching a property value of the group.

For example, if you have a Door Held event defined on an Object Type, you could configure the alarm type to look for all asset groups from all connected sites and raise an alarm if the Door Held event occur/does not occur from the devices configured within the asset group. Other doors raising the same event will not contribute towards the alarm generation.

The site that owns the device will see an alarm in the alarm stack and is also pushed back to the NOC. If more than one site meets the condition configured in the alarm, the sites that generated it will display an alarm in the alarm stack and the NOC will have a collection of alarms from all sites.



#### Objects are in Same Asset Group

This condition requires all the objects for which the events are being raised, belong to the same asset group. No configuration is required as all the objects are necessarily included here.

Condition Editor	-		×
Objects Are In Same Asset Group Requires that the event originating objects are all in	the same	asset gro	н
No configuration required			
Ok	Back	Cancel	

An example usage for this could be creating an asset group for all entrances to a building that is monitored by the access control readers and motion sensors surfacing the entrance. An alarm could then be raised if movement is detected and/or the access control detects a door forced event. A combination of events can be configured for various objects in the asset group to tighten up the security around the building.

#### Correlated Alarm Type in Viewshed

This condition uses geographic scene data to check if one device is plotted within the viewshed of another. The condition rejects events from devices that are either not plotted on a geographic map or are not contained within the appropriate viewsheds.



Condition Editor				Х
<b>Object Is In Viewshed</b>				
Require that the source object f	rom one event typ	e is wi	thin the	v
Viewing Device	Viewed De	vice		
++	F			
+		/	/	
CNL Demo Simi 🌱	CNL Demo S	Sim( )	·	
	Ok Ba	ick	Cancel	1

#### **Objects are Within Range**

This condition checks for the selected geographic scene where both device types have been plotted and are within the range specified of each other. Events from devices that are not plotted on the selected scene and are not within the specified distance are ignored.

Condition Edite	or	-		×
	Are Within Range the source objects for two event types are wi	thin a sp	ecified di	
Device 1 Device 2 Range (m)	+*+ CNL Demo Simulator Camera CNL Demo Simulator Door 50		*	
Scene	Scene for Location Site		***	
	Ok	Back	Cancel	

#### **Event Happened Multiple Times**

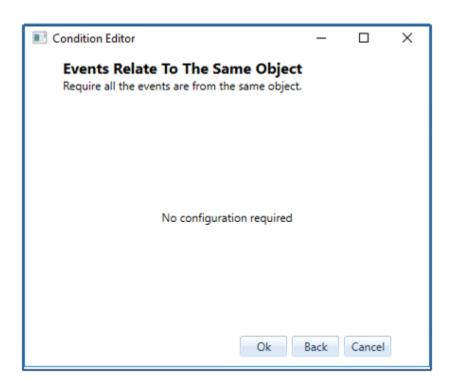
This condition requires that one specific event occurred multiple times within a certain amount of time for the alarm to be created. An example of this could be a fence intruder detection system that is prone to occasional false positives. Someone walking past the fence in close vicinity or attempting to climb the fence would cause multiple events in a short period.



Condition Editor		-		×
	d Multiple Times he event types occured at leas	t the spe	ecified nur	
Event	ECNL Demo Simulator Gat	te💋 Gat	te Cra \vee	
Minimum Number of Times			10 🌻	
	Ok	Back	Cancel	

#### Events Relate to the Same Object

This condition requires the events to be raised from the same object. For example, if Door held event is raised for Door 1, it is expected that the Door closed is also raised for Door 1. This will determine whether or not an alarm needs to be raised against that object if the door is held open for longer than a certain time period.





#### Events did not Occur Within Specific Time

This condition requires an alarm to be generated, if an event specified here does not occur within the configured time.

	1	C 1. D	D 1 CI		
		mo Simulator Door💋			
he eve	ent must not o	ccur within a period o	f 20 🗘	Seconds *	

An example situation here being a Door Open event to be followed by a Door Closed event within the specified time to keep the area safe. If the Door Closed event does not occur within 20 sec as mentioned in the picture above, an alarm is created to notify the operator that a certain door isn't closed. The **Event Types** screen will look as shown below.

🔗 Correlated Alarm Types Wizard		-		×
Event Types				
These events must happen in orc  All of these event types must occ At least 2  of these events The events must occur within a perior	ur at least once must occur at least once each [Not available for Did Not Occu	ur conditi	ion]	
1 💅 Door Forced on any 2 💅 Door Held on any 3 💅 Card Watch on any	CNL Demo Simulator Door CNL Demo Simulator Door CNL Demo Simulator Door CNL Demo Simulator Door			
4 🕵 Device State Changed on any	CNL Demo Simulator Door Further event conditions co	nfigured		
	Add	Edit	Remove	
	< Back	Next >	Ca	ncel

**Note**: The **Event Did Not Occur** option is not available for the third option as it is not required for all the events to occur here. So, if the **Event Did Not Occur** event has not occurred, this condition will still be true as all the events are not expected to happen.

#### **Correlated Alarm Points**

This page determines the Control Center object that is used as the Alarm Point for the alarm. The first or last event of a single type is picked now, and the alarm is created based on these settings. The Alarm Point is not changed by extra events being raised after the alarm is created but can be changed by configuring an Alarm Modifier.

😤 Correlated Alarm Types Wizard	-		×
Alarm Point			
Base alarm point on event type: First Y Any Device P Any Device Any Event		~	
CNL Demo Simulator Doorg Door Forced     Use Event Originator     Use Event Property     Find Placeholder			
CNL Demo Simulator Door Door Held     Use Event Originator     Use Event Property     Find Placeholder			
CNL Demo Simulator Doorget Card Watch     Use Event Originator     Use Event Property     Find Placeholder			
CNL Demo Simulator Door Device State Changed     Use Event Originator     Use Event Property     Find Placeholder			
< Back	Next >	Ca	ncel

The alarm point can be based on the following three options:

- Event Originator: uses the device that raised the event.
- Event Property: uses a device that was referenced as a property on the event. Most device events do not have a suitable property as current best practices for driver coding is not to do this.
- **Find Placeholder**: uses an event property to find a placeholder attached to the device that raised the event.

Ind Placeholder					
Property:	al Door Label	•			
Create i	f not found				

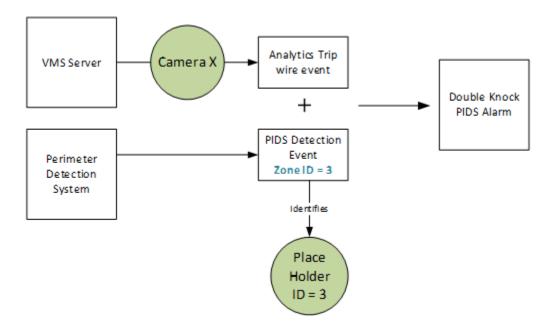
If the **Create if not found** box is checked, missing placeholders will be created in the same location as the device that raised the event.

#### Note:

- If the event type selected is not included when the alarm is created through use of the At least x of these events must occur at least once each option on the Event Types page the alarm will be created without an Alarm Point.
- 2. A Correlated Alarm Type is triggered by at least two events from one or many sources. To identify a specific location that the alarm originated from, one of the sources is selected as the alarm point identifier.
- 3. For many devices, the source of the alarm is the Alarm Point. For instance, if an analytics alarm is raised by a camera, the camera is the Alarm Point.
- 4. The event type for **Event did Not occur Within Specific Time** is shown as greyed out. For some devices, the Alarm Point is identified by data received in the event. For instance, a



PIDS device can raise an intruder event. The event includes a Zone ID and Control Center uses this data to find a matching Placeholder which will be used as the Alarm Point.



The Alarm Types wizard provides the ability to specify exactly how the Alarm Point shall be identified for each type of event that is linked to the Alarm Type.

By default, Control Center will use the Event Originator as the Alarm Point. To change this, for instance to find a Placeholder, select the matching radio button at the Alarm Point step in the Alarm Types Wizard.

You could also set the Alarm point based on a particular event type as shown below.

Correlated Alarm Types Wizard		_	
Alarm Point			
Base alarm point on event type:			
First Y CNL Demo Simulator Door	Demo Simulat	or Door	🖉 De 🗡
CNL Der Many Device Any Event	larm type		
Use Eve CNL Demo Simulator Door	Door Forced		
Use Eve Door Forced	<b>B</b> 11 11		
○ Find Pla	Door Held		
Card Watch	Card Watch		
	Back	Next >	Ca

## **Alarm Description**

To override the default **Alarm Description**, use the script editor to write custom script. Select the **Override Default Alarm Description** checkbox to enable the script editor.

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🗑 Correlated Alarm Types Wizard	-	
Description		
Use this page to determine how the alarm description is generated.		
Override Default Alarm Description		
My.AlarmType.Label		~
		~
< Back	Vext >	Cancel

The description column in the alarm stack can be set using the script editor based on properties from the alarm type, alarm point and the event.

Click Next. The Collation and Alarm Actions page appears.

## **Custom Column Mappings**

Custom column mappings set properties on the alarm to contain values from the events that make up the alarm.

😤 Co	orrelated Alarm Types W	īzard		-		Х
Cust	om Column Map	pings				
	Use this page to popu required.	late custom columns with	data from the propertie	s in the	event if	
	Custom Column	Event	Event Prop	erty		
	Custom Text 1	Door Forced	Device Identifier			
	Add Edit	Remove Clear	< Back Ne	ext >	Car	ncel

The list is empty by default, and this is a valid configuration. The default Alarm Stack View does not show any custom columns to the operator. The values will be stored in the Alarm even if they are not shown and can be read using the Read Alarm response plan shape.

Mappings are created by clicking the **Add** button, which updates the page to look similar to this:



	10	-	
	-		×
n columns with data from the propertie	s in the	eve <mark>nt if</mark>	
Custom Text 1 ×	]		
CNL Demo Simulator Door 💋 👻			
Device Identifier			
OK Cancel			
Clear			
< Back	Vext >	Ca	ncel
	Custom Text 1 Custom Text 1 CNL Demo Simulator Door Device Identifier OK Cancel Clear	n columns with data from the properties in the Custom Text 1    Custom Text 1   CNL Demo Simulator Door	-

Start by selecting the column that you want to insert a value into. The available event properties will be filtered based on the data type selected for the custom column, that is, Credential Identifier will NOT be available for the **Custom DateTime 1** column. All properties are available for the Custom Text columns.

Once the settings are correct, clicking **OK** will return the page to show the list of mappings, containing the newly added mapping.

Mappings can be edited or removed by selecting them in the list and clicking the appropriate button. The **Clear** button removes all mappings.

## Actions

This page determines what happens once alarms are configured against specific events.

Correlated Alarm	ypes Wizard	-	[		Х
Actions					
Collation:					
Collate	/ Location				
Collate	Alarm Point				
✓ Collate	/ Alarm Type				
Collate	/ Track Id				
Collate	/ Event Property :				
Alarm Action	:				
Alarm Create	🌯 None Set				
Alarm Handle	: 🚯 None Set				
Alarm Modifi	l: 🍕 None Set				
Alarm Resolv	l: 🍕 None Set				
Alert State:	🕅 None Set				
Threat Level:	= No change		Ý		
Allow Bul	Resolving				
Existing Alar	Behaviour:				
On Create:	Do Nothing			~	
On Resolve:	Do Nothing			~	
		< Back Next >		Car	ncel



#### Collation

The collation settings determine if a new alarm should be created, or if the events should be added to an existing alarm.

- **Collate by Location** Uses the location that the alarm point is contained in for grouping the alarms.
- **Collate by Alarm Point** Uses the Alarm Point selected on the Alarm Point screen for grouping the alarms.
- **Collate by Alarm Type** Only groups with other alarms of the same type.
- Collate by Track Id Collates alarms from the same Radar track.
- **Collate by Event Property** Adds drop-down boxes to select which event and property on that event to use for collation. In this example, alarms will only collate if they contain a credential swiped event for the same door.

Collation:		
Collate by Location		
Collate by Alarm Point		
Collate by Alarm Type	🗐 Training Server 🐂 Credential Swiped	•
Collate by Event Property :	1 Door Identifier	•

#### **Correlated Alarm Actions**

This section allows you to set the Response Plans to run when an alarm is created, or its state is changed.

- Alarm Created Runs only once when the alarm is first created. It does not run when extra events are added through collation.
- Alarm Handled Runs whenever a user handle an alarm that they are permitted to handle. They may already be handling this alarm. The alarm may have been in the unhandled, parked or handled states.
- Alarm Modified Runs when the properties of an Alarm are changed, either by an Alarm Type Modifier or the Modify Alarm shape. It does not run when events are added, or an alarm is handled, resolved or parked.
- Alarm Resolved Runs only once when the alarm is resolved. This is usually the last response plan associated with an alarm, however, it is not recommended to modify an alarm after it is resolved.
- Alert State If an alert state is selected here, it will be applied to the Alarm Point when the alarm is created and removed when the alarm is resolved.
- **Threat Level** If a Threat Level is selected here, the system wide threat level will be raised to the level selected from a lower level. When the alarm is resolved, the system wide threat level may drop if this alarm was the highest-level threat in the system.

#### Allow Bulk Resolving

If this is enabled the alarms created for this alarm type can be bulk resolved in the alarm stack instead of resolving it individually.



#### **Existing Alarm Behavior**

The following two properties determine what should happen to alarms created by events that are included in this correlated alarm.

- Forcibly Park Sets the alarms to the Parked state if they are currently being handled and raises the Forced Park event on the Alarm Types server, which can be used to stop an ongoing process guidance.
- Forcibly Resolve Sets the alarms directly to the resolved state. This happens regardless of the current state of the alarms.

You can set the above actions to be executed **On Create** or **On Resolve** actions:

- **On Create** Occurs at the time the correlated alarm is created. It does not happen on collation of additional events.
- **On Resolve** Occurs when the correlated alarm is resolved through the resolve alarm response plan shape.

## **Correlated Alarm Handling Groups**

This screen is used to specify which user or user groups can handle/resolve an alarm. If no alarm handling groups are specified, then all users will have permission to handle/resolve the alarms.

90	orrelated Alarm Types Wizard	33 <del></del> 84		×
Ala	rm Handling Groups			
	Use this page to specify alarm handling groups, which allows you handle and/or resolve an active alarm. By default, if no alarm har specified, all users who have permission to view an alarm can har alarm.	dling group	s are	
	All users can handle/resolve this Alarm Type Group 1			
	Select an Alarm Handling Group to apply to this Alarm Type:	Group 1	¥	
	Add Remove Clear			

If **All users can handle/resolve this Alarm type** is ticked, then all users will have permission to handle the alarm. If you wish to give the permission to a particular group, then deselect the option and select an alarm handling group from the drop-down [alarm handling group must be previously created] and click **Add**. The group name will appear in the center box to indicate that it has right to handle/resolve the alarms. To view the members of the group, go to the **Alarm Handling Group** tab under Alarm Types and double click on the group you wish to check on.



## Service Level Agreement Overrides

This page controls formatting of the alarm as viewed in the Alarm Stack.

😤 Correlated Alarm Types Wiz	ard		-		Х
Service Level Agreeme	ent Overrides				
Level 0 Level 1 Leve	el 2 Level 3				
Enabled:	🔘 Enabled 🔘 Disab	led 🖲 Use Default			
Duration:	10 🔺				
lcon:	Override Icon				
Fore Color:	Black	~			
Back Color:	White	~			
Font:	Body Text	~			
Audio Alert:	🜒 None Set				
Response Plan:	👍 None Set				
		< Back	Next >	Ca	ncel
		< DOCK	INCAL >	Ca	neer

The default settings are for the alarm to use the system wide defaults. These can be overridden on a per-service level basis.

- Enabled
  - **Enabled** The alarm can breach this service level, and that the settings provided here take effect.
  - **Disabled** The alarm cannot breach this service level. This does not stop it from breaching higher service levels.
  - **Use Default** The system wide setting for this service level will apply.
- **Duration** The elapsed time in seconds since the alarm was created. This is total time, not time since the previous SLA breach.
- Icon Changes the icon displayed in the Icon column of the Alarm Stack.
- Fore Color Apply to all text on the alarm row.
- **Back Color** Affects the background of the whole row.
- Font Apply to all text on the alarm row.
- Audio Alert Plays on all clients that would be able to see the alarm, whether an Alarm Stack is displayed or not. Clients that have no Alarm Stack View that would show the alarm do not play the alert. Audio files must be in .wav format.
- Response Plan The response plan runs once on the server when the service level is breached. The response plan variables include the alarm ID, the alarm type name and the service level that was breached



Level o refers to the state of the alarm immediately after it has been created, and before any service level is breached. Therefore, it cannot be disabled, has no duration setting, and cannot have an audio alert or response plan configured.

The system wide default service level settings can be adjusted from the Alarm Types management screen by clicking the Service Levels button on the tool strip.

## Correlated Alarm Types Wizard Summary

The **Summary** page provides a brief overview of the alarm configuration. Not every setting is reflected on this page. Clicking **Finish** will save the updated Alarm settings to the server, where they will take immediate effect. Existing alarms of this type will not be directly changed, but events may be added to them following the updated settings.

ummary	
Name:	Test Door
Description:	An example of the Correlated Alarm
Enabled:	True
Priority:	2
Schedule:	None
Maximum Duration:	1 Minutes
Events:	At least 2 of the following events: Door Forced on any CNL Demo Simulator Door Door Held on any CNL Demo Simulator Door Card Watch on any CNL Demo Simulator Door
Conditions:	Property "Enabled Equals True" Property "Created LessThan 3/26/2019 11:38:00 AM"
Service Level Options:	Level 1 is default, level 2 is default, level 3 is default.
Click Finish to commit ch	nanges and close the wizard.

## Correlated Alarms Scenario 1: Rules Engine Goes Down When Events are Being Created

If the Rules engine goes down after event/events have occurred and comes back up after further events defined in the condition set of the correlated alarm has occurred, but within the specified time, correlated alarm is generated. However, if the Rules Engine comes back after the specified time, then no correlated alarm is created. For example, if you have 2 events configured in the correlated alarm to occur within one-minute time period:

- Door held
- Card watch
- One event occurred, and rules engine goes down, second event occurs, and rules engine comes back up; All happening within the one-minute window specified in the alarm condition, then correlated alarm is created. But if the Rules Engine comes back up after the configured time, no correlated alarm is generated.



## Correlated Alarms Scenario 2: Event did not Occur Within Specified Time

A correlated alarm can be generated where the second event is required to happen within a specified period of the first event's occurrence. This feature can also be extended to the Alarm modifier where the alarm is modified if the event did not occur within certain time.

🔮 Correlated Alarm Types Wizard	-		×
Event Types			
These events must happen in order  All of these event types must occur at least once  At least 2  of these events must occur at least once each [Not available for Did N The events must occur within a period of 1  Minutes	lot Occur	conditic	
1 💋 Door Held on any 👔 CNL Demo Simulator Door 2 🕵 Device State Changed on any 👔 CNL Demo Simulator Door Further event condit	tions confi	igured	
Add	Edit	Remove	
< Back	Next >	Can	cel

For example, if two events,

- Door Held Event occurs, and an alarm is generated
- A modifier can be configured to increase the priority of the alarm if the Door closed event does not occur within 30 seconds.

The above events are configured for a correlated alarm. The Door held event comes through and Door State Change event does not occur within certain time period, then an alarm is generated. To explain further, if the door is held for longer than 10 secs, then an alarm is created to notify the operator, as the door is expected to be closed within that time period to keep the area safe.

## Correlated Alarms Scenario 3: Events Relate to the Same Object

A correlated alarm can be generated when only events related to the same object occur.

🔮 Correlated Alarm Types Wizard 🛛 🚽 🗆 🗙	😤 Correlated Alarm Types Wizard 🛛 — 🗆 🗙 ,
Event Types	Conditions
These events must happen in order  All of these event types must occur at least once At least 2 of these events must occur at least once each The events must occur within a period of 1 Minutes  1 Door Forced on any CNL Demo Simulator Door 2 Card Watch on any CNL Demo Simulator Door  4 III  Add Edit Remove	Alarms will only be raised during this schedule None Set
< Back Next > Cancel	< Back Next > Cancel



For example, if Door forced is created for door 1, and another Door force is created for Door 2, a third event card watch occur for door 1. It is good to infer that door 1 was forced and then a card was presented to gain access, while door 2 is still stands forced. As a result, correlated alarm will be generated for door 1.

## **Correlated Alarms Scenario 4: Event Happened Multiple Times**

If you wish to raise an alarm only if the event has occurred several times, then add the Event happened multiple times condition. You could also harden the scenario by adding Event relate to the same object or are part of the same asset group. This will ensure the event is coming from the same device or same asset group to be able to generate an alarm.

Correlated Alarm Types Wizard		-		2
nditions				
Alarms will only be raised during this schedule 🖲 None Set				
An alarm will be raised if none of the following conditions reject an event.				
AND Add Rule Add Group				
BObjects Are In Same Asset Group - Configured	Edit	Delete		
Event Happened Multiple Times - Device State Changed happens at least 2 times	Edit	Delete		
· · · · · · · · · · · · · · · · · · ·				
< Ba	ck Nex	xt >	Can	

In real life situations, you can configure an alarm to be raised only when a door forced event occurs certain number of times on the same door.

## Correlated Alarm Type Scenario 5: Object is in Asset Group

In a Federated environment, the alarms can be published from NOC to all connected sites. While creating a correlated alarm for an asset group, the assets group looked up would essentially be from the NOC site. For referencing the asset groups from all the child sites, you could use **Object Is In Asset Group** by property. This helps looking for asset groups on all sites matching a property value of the asset group.

uire that the	e event originating object	ts are in a sin	gle specified	asset
Asset Group	O by lookup 💿 by	/ property		
Property	Operator	Dest	ination	
	✓ Equals	× 🖌		



For example, if you have a Door Held event defined on an Object Type, you could configure the alarm to look for all asset groups that are enabled, from all connected sites and raise an alarm if the Door Held event occur from the devices configured with the asset group. Other doors raising the same event will not contribute towards the alarm generation.

The site that owns the device will see an alarm in the alarm stack and is also pushed back to the NOC. If more than one site meets the condition configured in the alarm, the site that generated it will display an alarm in the alarm stack and the NOC will have a collection of alarms from all sites.

## **Correlated Alarm Type Scenario 6: Events with Conditions**

The scenario below is configured to **These events must happen in order** with the following 3 events:

- Door Forced
- Card Watch
- Door Held

Alarms will only be raised during this schedule 🖲 None Set		
An alarm will be raised if none of the following conditions reject an event. AND Add Rule Add Group Events Relate To The Same Object - Configured Edit Delete OR AND Add Rule Add Group Delete Event Property Match - Card Watch.First Name Equals "ABC" Edit OR AND Add Rule Add Group Delete OR AND Add Rule Add Group Delete Event Property Match - Card Watch.Last Name Equals "XYZ" Edit OR AND Add Rule Add Group Delete Event Property Match - Card Watch.Card Number Equals "100" Edit Event Property Match - Card Watch.Card Number Equals "200" Edit	Delete Delete Delete Delete	

It can be further configured by adding more conditions on the conditions page to filter the alarms being created.

Since the first level of the nested condition loop is an AND condition, it is expected that all conditions are necessarily satisfied. An OR condition can be included from second level onwards.

The first condition is linking all events to the same object/device. The nested conditions check for the first/last name and the card number.

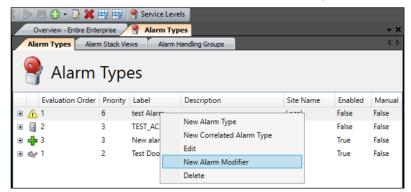
A correlated alarm is created if all 3 events are generated and the card watch event can have a first or a last name with card number being 100 or 200.



## Modifying an Alarm (Alarm Modifiers)

An alarm can be updated as a result of an event being received. A typical usage scenario is to update a Door Held alarm if a door closed event is received. To modify an alarm as a result of an event, create a new Alarm Modifier using the Alarm Modifier wizard.

1. Start by selecting the alarm type in the Alarm Types interface, right-click and select **New Alarm Modifier.** The **Alarm Modifier** wizard opens.



2. Alarm Modification Event: In the wizard, specify which event should modify the alarm. Note that the object type will remain the same as the primary alarm, as the alarm modifier created needs to be on the same alarm object type.

😤 Alarm Types Moo	difier Wizard - test Alarm —		×
Evaluation - Al	arm Modification Event		
Use this page	to determine the triggering event type.		
Object Type:	CNL Demo Simulator Gate		
	Match any object of this type		
Object(s):			
	Add Remove Clear	-15	
Event:	· · · · · · · · · · · · · · · · · · ·		
	Gate Open Gate Open		
	Gate Closed		
	Gate Closed	Can	cel
	Gate Crashed		
	Jevice State Changed		
	Raised when the online state of a device changes.		

3. Alarm Modifier Creation Conditions: This section is used to specify the asset group the device belongs to, if any. You can either, look up for a specific Asset Group or, search by property condition, as shown in the picture below. If the device is not part of any Asset



Group, you can click Next to proceed to the next step.

😤 Alarm Types Modifier Wizard - test Alarm 🛛 – 🔲 🗙	😤 Alarm Types Modifier Wizard - test Alarm 🛛 — 🗆 🗙
Evaluation - Alarm Modifier Creation Conditions	Evaluation - Alarm Modifier Creation Conditions
Use this page to specify the Asset Group of which the device must be a member (if any). Asset Group:	Use this page to specify the Asset Group of which the device must be a member (if any). Asset Group: O by lookup
< Back Next > Cancel	< Back Next > Cancel

The object can be linked to the Asset group by searching for various property that defines it.

4. Alarm Modification Event Conditions: This step is to determine the conditions on the event properties/object properties. Click on Add to display the above screen. When an option is chosen for the source, the corresponding drop-down menu is shown. The Does not occur option monitors if an event does not occur in a certain time period, so you can take relevant action, like increasing the priority of the alarm or displaying a message to the user. Click OK to add the condition and then click Next to proceed.

Alarm Type	s Modifier Wizard - test Alarm		-		×
valuation	- Alarm Modification Ev	ent Conditions			
then the			f you include the same property multiple roperties must have at least one match		
			ination variables will be specific to the destination variables, ensure you have <b>Destination</b>		
	<ul> <li>Event Property</li> <li>Object Property</li> <li>Does not occur</li> </ul>	Equals	Event Property     Object Property     Constant Value		
	Date	~	Date ~		
Add	Edit Remove Clear		OK Cancel		
			< Back Next >	Ca	ncel

5. Alarm Property Mapping: Start by picking the Alarm property from the options available and map it to the event property or a static value and select **OK**. This will modify the Alarm property accordingly when the event with the specified property occurs. Click **Next** to proceed.



😤 Alarm Types Modifier Wizard - test Alarm	-		×
Alarm Property Mapping			
Use this page specify Alarm properties that will be modified with data from properties in the event if required.	m the		
Alarm Property: Custom Text 1 ~ • Event Property Static Value			
Event Property: Device Identifier v OK Cancel			
Add Edit Remove Clear			
< Back N	lext >	Ca	ncel

6. Alarm Actions: This is the place to define the actions to be performed on the alarms which meet the modifier criteria. You can choose to Reset, Resolve or Park the Alarm. You can also specify to execute an alert action when the alarm is modified. Alternatively, define a response plan to fire up when the modifier conditions are met. Click **Next** to proceed.

😤 Alarm Types Modifier W	-		×	
Alarm Action				
Use this page to def criteria.	ine actions to be performed on Alarms that match	the Modifie	r	
Alarm Action:	Resolve Alarm			
Alarm Alert Action:	Clear Alarm Point Alert		·	
Response Plan:	🍓 None Set			
	< Back	Next >	Can	cel

7. Complete the wizard by verifying the configurations on the **Summary** page and click **Finish**.



Alarm Types Modifier Wizard - test Alarm				×
ummary				
Alarm Type	test Alarm			
Label	Test Modifier Alarm			
Description				
Enabled	True			
Alarm Action	Resolve Alarm			
Alarm Alert Action	Clear Alarm Point Alert			
New Alert	None Set			
Device Type:	CNL Demo Simulator Gate			
Devices:	Any CNL Demo Simulator Gate Device			
Event Conditions:	Date Equals Date			
Asset Group:	None			
Click Finish, to comm	it changes and close the wizard.			
	< Back	Finish	Car	ncel

The modifier is displayed when you expand the alarm type.

Overview - Entire Enterprise     Alarm Types										
Alarm Types Alarm Stack Views Alarm Handling Groups										
P Alarm Types										
valuation Order	Priority	Label	Description	Site Name	Enabled	Manual				
	6	test Alarm		Local	False	False				
💋 Alarm Type Mo	odifiers: 1									
💋 Test Modifi	ier	This is a sa	mple modifier							
	3	TEST_ACS		Local	False	False				
	3	New alarm gro		Local	True	False				
	2	Test Door	An example of the Correlated 4	Local	True	False				
	Alarm Types	Alarm Types Alarm Stace Alarm Type Valuation Order Priority 6 Alarm Type Modifiers: 1 7 Test Modifier 3 3	Alarm Types Alarm Stack Views Alar Alarm Types valuation Order Priority Label 6 test Alarm Alarm Type Modifiers: 1 Alarm Type Modifiers: 1 This is a sa 3 TEST_ACS 3 New alarm gro	Iarm Types       Alarm Stack Views       Alarm Handling Groups         Alarm Types       Alarm Types         Alarm Types       Alarm Types         Valuation Order       Priority       Label         0       test Alarm         Alarm Type Modifiers: 1       This is a sample modifier         3       TEST_ACS         3       New alarm gro	Alarm Types     Alarm Stack Views     Alarm Handling Groups       Alarm Types     Alarm Stack Views     Alarm Handling Groups       Alarm Types     Alarm Types     Site Name       6     test Alarm     Local       Alarm Type Modifiers: 1     This is a sample modifier     Local       3     TEST_ACS     Local       3     New alarm gro     Local	Alarm Types       Alarm Stack Views       Alarm Handling Groups         Alarm Types       Alarm Stack Views       Alarm Handling Groups         Alarm Types       Site Name       Enabled         6       test Alarm       Local       False         Alarm Type Modifiers: 1       This is a sample modifier       Icocal       False         3       TEST_ACS       Local       False         3       New alarm gro       Local       True				

## Alarm Type Modifier - Launch Response Plan

You can launch a Response Plan when the conditions of an Alarm Type Modifier evaluate as true. This means that a Response Plan can run without the alarm having to be modified. It can also run if the alarm is modified. The Response Plan that is launched includes a variable pointing to the Alarm ID of the matching alarm.

To link a Response Plan to an Alarm Type Modifier:

- 1. Open the Alarm Types interface and select the relevant Alarm Type.
- 2. Expand the Alarm Type and open the new **Alarm Type Modifier** wizard by one of the following ways:
  - Right-click and select New Alarm Type Modifier.
  - Right-click an existing Alarm Type Modifier and select Edit.



	Alarma Transa				
	Alarm Types				
	Label	Enabled	Description	Site Name	Manu
🜻 1	Safe City - Gunshot	True	Audio analytics have identified a gunshot.	Local	True
🤹 2	ANPR White List	True		Local	False
🔮 3	VIP Visit	True	A VIP has arrived on site	Local	True
9.4	Perimeter Breach	True	Perimeter Breach Detected by PIDS	Local	False
9.5	Video Analytic	False	Video Analytic Event	Local	False
9.6	Suspended Badge	True	Staff menber has called in stating they have misplaced their ACS Card	Local	True
👲 7	Fire - Fault	False	A sensor has gone into fault status	Local	True
8 🧶 1	Fire	True	A fire has been detected in the building	Local	True
9.9	Perimeter Detection	True		Local	False
🤹 10	Perimeter Analytics	True		Local	False
🤹 11	Perimeter Detection	True		Site A	False
🜻 12	Door State Change	False		Site A	False
🤹 13	Federated Site Issue	True		Local	False
🔮 13	Door Forced	True		Site A	False
9 14	Perimeter Analytics Alarm	True		Site A	False
🤹 15	Suspended Badge	True		Site A	False
🌻 16	Unkown Badge - High Threat	True		Local	False
🔒 17	Unknown Badge	True		Local	False
	Alarm Type M				
. 18	Correlated F Edit			Local	False
9 19	Intruder Ala New Alarm Modifier			Local	True
<u> </u>	Active Shoo Delete		Active Shooter Onsite	Local	False
2	Correlated Permeter Attack	True		Local	False
A 3	Correlated Perimeter Alarm	True		Site A	False

3. On the Alarm Action step, change the Response Plan to be launched.

Alarm Types Modifier W	zard - Motion detected —	[		×
Alarm Action				
Use this page to defi	ne actions to be performed on Alarms that match the Modifier criteria.			
Alarm Action:	None	~		
Alarm Alert Action:	None	~		
Response Plan:	🐝 None Set			
	< Back Next >		Cance	el

## Include Alarm Type Modifier Events in Count of Alarm Events

You can enable Alarm Type Modifier events to contribute to the count of alarm events by modifying the Rules Engine configuration file. To modify the Rules Engine configuration file:

 Locate the Everbridge.RulesEngine.WindowsService.exe.config file in the following directory:

C:\Program Files (x86)\Everbridge\ControlCenter\ControlCenter Rules Engine



2. In the <appsettings> section of the configuration file, set to the default value to true. For example:

```
<add key="IncludeAlarmTypeModifierEventInAlarm" value="false"/>
```

to

<add key="IncludeAlarmTypeModifierEventInAlarm" value="true"/>

3. Restart the Control Center services for the changes to take effect. The Alarm Type Modifier events appear in the **Alarm Count** column of the Alarm Stack.

# **Managing Alert States**

An alert state defines a set of visual properties that can be applied to an object. An alert state can be automatically applied to an alarm point related to an alarm.

In addition, alert states can be linked to location types so that when a device creates an alarm, the parent objects implement the alert state as well. You can define which parent location types are alerted when a device creates an alarm. For example, if a door alert is triggered, you can define for it to automatically apply the alert state to the floor, building, and site that own the door.

To create an alert state and generate it against a single object:

- From System Configuration, right-click to select New > Alert State. A new alert state is created.
- 2. Provide an intuitive name for the alert state. Edit the following properties in the **Properties** pane on the right:
  - **Color** Change the color to the desired color.
  - **Duration** Change the duration property to the value of 30.
  - **Icon** Change the icon property to an icon of your choice.
  - **Text** Provide a simple text string for the Text property on the alert state.
- 3. Create a Location in System Explorer and add a Geographical (GIS) Scene or Schematic Scene when prompted. The location and scene are added.
- 4. Add one of the following objects types to the location:
  - Devices
  - o Placeholder
  - Sub-location (without a scene)
- 5. In the GIS scene, select the **GIS Layers'** property, and move the **OSM Layer** to the **Scene Layers** list.
- 6. Plot the icons by dragging the object from the tree view on the left panel and drag to position on the map. Click **Save** and close the scene.
- 7. Configure the System Explorer, so that the map is displayed when a location is selected in System Explorer.



- 8. Ensure that the scene that was just configured is displayed in the main display area and expand the location on the system tree such that the items in the location are visible.
- From System Configuration, click Alert Object. The Control Center Search Objects dialog appears. Enter the object or click Find Now to locate the object that has already been plotted, and double-click to select it, then click OK.
- 10.Navigate to the main display area and notice the main display area for the icon of the selected object blinking.



## Modify the Alert State for an Alarm

Using the Modify Alarm shape, it is possible to update the alert that applies to an alarm.

Prop	erty Mapping		×
	<u>}</u> ↓ 🖻		
~	Misc		^
	Alert State	AlertState	
	Custom Boolean 1		
	Custom Boolean 2		
	Custom Boolean 3		

It is also possible to clear the alert by setting the alert state property in the modify alarm shape to point to an alert state variable that is empty.

# **Managing Alarm Resolution Types**

Resolution types are used to specify the options available when resolving an alarm, either as an end user or via logic built into the solution.

The choices available to resolve an alarm are called resolution types. Control Center has default settings called System Resolution Types. The default resolution types cannot be changed, but new types can be added that can be edited and deleted as required.

To add an Alarm Resolution type:

1. In the Alarm Types or Alarm Stack Views Editor window > Properties window, click Alarm Stack View. The default Alarm Resolution Types appear in the properties list.



Alarm Resolution Types 🔹 🔻				
Add Edit Delete				
Name				
Contractor				
Engineer Off Site				
Engineer On Site				
Environmental				
False Alarm				
Fire Alarm				
Fire Brigade				
Intruder				
Member of Public				
Police Off Site				
Police On Site				
Security Patrol				
Staff Error				
Staff Off Site				
Staff On Site				
System Test				
Unknown/Insufficient Lighting				
Unknown/Video Investigation				
Vehicle Off Site				
Vehicle On Site				

2. Click **Add** to define a new Alarm Resolution Type. The **New Alarm Resolution Type** dialog opens.

Alarm Resolution Types	•
Add Edit Delete	-
Name:	
	OK Cancel
Name	
Contractor	

- 3. In the **Name** field, enter a new resolution name. For example, Equipment Failure.
- 4. Click **OK**. The new Resolution Type appears in the list in the properties frame.

#### **Editing Alarm Resolution Types**

To edit a Resolution Type:

- 1. From the properties list, select the Resolution Type and click **Edit**. The Resolution Type and its description appear.
- 2. Edit the Name or Description and click OK to save the changes.



## **Deleting Alarm Resolution Types**

To delete a Resolution Type, select the Resolution Type from the properties list and click Delete. The Resolution Type is removed from the list.

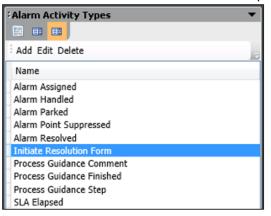
**Note**: Only user-defined resolution types can be removed. System resolution types cannot be deleted.

# **Defining New Alarm Activity Types**

The actions available to resolve an alarm are called Alarm Actions. Control Center comes packaged with default alarm actions and shapes that cannot be edited or deleted but can be added to. However, you can edit and delete custom Alarm Activity Types.

To define a new Alarm Activity Type:

- 1. Go to **System Configuration** window > **System Objects** folder.
- 2. Locate the **Alarm Types** folder and double-click to open it.
- 3. In the **Properties** pane, click the last button to switch to Alarm Activity Types.
- 4. The Alarm Activity Types appear in the display. The items prefixed with Alarm are the default actions and the other items represent default response plan shapes.



5. Click Add. The New Alarm Activity Type dialog opens.

Switch toolbar buttons to view Alarm Activity Types	Alarm Activity Types       Image: Image
	OK Cancel
	Name Alarm Assigned

- 6. In the Name field, enter a new Alarm Activity Type name.
- 7. Click **OK**.



## Editing an Alarm Activity Type

To edit an Alarm Activity Type:

- 1. In the property list, select the Alarm Activity Type and click Edit.
- 2. Edit the Name or Description and click OK to save the changes.

**Note**: The Alarm Activity Type UI is not case sensitive, that is AbC is considered the same as abc. Therefore, if you try adding the same activity name with a different case, an error message is displayed.

## Deleting an Alarm Activity Type

To delete an Alarm Activity Type, select it in the property list and click **Delete**. The Alarm Activity Type is removed from the list.

# Changing the Evaluation Order of an Alarm Type

The evaluation order of Alarm Types allows the user to determine the order in which Alarm Type is checked when a new event is processed. Once an event is received, each Alarm Type in the system is checked against the event taking into consideration the location, schedule and conditions of the event. When a match is found, the evaluation of the Alarm Types is halted, and the Alarm Stack is created or updated.

The order in which Alarm Types are evaluated can be determined in the System Alarm Stack by adjusting the order in which they are shown using buttons on the toolbar. Alarm Types are evaluated top down.

This is useful where a specific Alarm Type should be checked before another general Alarm Type. Using the example below, the Alarm Type **Fire Alarm in Server Room** must be evaluated before **Fire Alarm**, otherwise any fire alarm events from the server room are categorized as **Fire Alarms** which is more of a general Alarm Type (and not prioritized appropriately).

Evaluation Order	Alarm Type	Device Type	Event	Location	Schedule
1	Fire Alarm in Server Room	Fire Panel	Fire Alarm	Server Room	Any
2	Fire Alarm	Fire Panel	Fire Alarm	Any	Any

To re-order alarms:

- 1. Click the Alarm in the Alarm Types Editor to select it.
- 2. Click the **Move Up** button in the toolbar. The alarm is promoted one level.
- 3. Click the **Move Down** button in the toolbar. The alarm is demoted one level to its original position.



# Define Default Service Level Agreements

Service Level Agreements set the schedule for the visible and audible reminders to bring new alarm events to an operator's attention.

Service Levels have three stages (or levels) set with 10, 20, and 30 second response times that can be configured.

To define Service Levels Agreements for Alarm Types:

1. In the Toolbar, click Service Levels. The Default Service Level Agreements wizard

Default Service Level Agre	×				
fault Service Level Agreements					
Level 0 Level 1 Le	vel 2 Level 3				
Enabled:	Enabled				
lcon:	Override Icon				
Back Color:	Gray 2 ×				
Font:	Body Text ~				
		Save Cancel			

- 2. Select the appropriate tab to set the conditions for each Service Level Agreement.
- 3. Specify the properties for the following fields:
  - **Enable/Disabled** Enables or disables the default service level agreements for the various levels.
  - **Duration** The up/down arrows to specify the interval (in seconds) after the alarm creation that the selected Service Level represents.
  - **Override Icon** When selected, the alarm icon that appears in the Alarm Stack View is overridden once the Service Level Agreement is initiated.
  - **Fore Color** The foreground color for the Alarm Stack row to highlight an alarm's status to users.
  - **Back Color** The background color for the Alarm Stack row to highlight an alarm's status to users.
  - **Font** The font of the text in the Alarm Stack row to highlight an alarm's status to users.
  - Audio Alert When an alarm is enacted the Service Level Agreements can play an audio alert to all logged in users. All users receive alert regardless of whether the Alarm Stack View is open or not.

**Note**: Only .wav media types are supported.



- Response Plan The response plan to be executed when the service level is enacted.
- 4. Click **Save** to save the Service Level Agreement.

#### Example

An alarm is raised. The alarm appears in the Alarm Stack as black text against white background with the PTZ icon to indicate the type of alarm.

After 20 seconds, the alarm in the Alarm Stack appears as black text against a yellow background with a PTZ camera icon. A beep sounds on the operator's workstation.

After 30 seconds, the alarm in the Alarm Stack appears as yellow text against a red background, a beep sounds, and an SMS message is sent to the operator's mobile phone.

**Note**: If the response plan associated with the Service Level Agreement does not have the alarm variables, they are added when the dialog is closed.

# **Configuring Alarm Attachments**

You can use the Alarm Attachments Viewer control to add attachments to alarms.

Attachments can be media already in Control Center or external files. External files that you attach are stored in **System Configuration** > **Systems Objects** > **Alarm Media** > **alarm**\_*id* where *id* is the alarm ID.

You must have type permissions to be able to add and view alarm attachments. See <u>Type</u> <u>Permissions</u> for more information.

You can configure a maximum file limit for attachments in **System Configuration** > **Global Settings** > **Enterprise Settings** > **Alarm Attachment Maximum Size**.

To enable operators to add attachments to alarms, you can:

- Add the Alarm Attachments Viewer control to a GUI and configure a display area for the GUI. See <u>Graphical User Interfaces</u> for more information.
- Configure a response plan to display the Alarm Attachments Viewer

The following example describes how to add an alarm attachment display area to your **Alarm Resolution Form**.

- Go to System Configuration > My Organization > Modules > Alarm Processing > Alarm GUIs.
- 2. In the **Response Plan** area, double-click the **Show Resolution Form** response plan to open it.
- 3. Double-click the **Setup the resolution form Part 1** shape.
- 4. Add the following line:

My.PageVariables.ResolutionForm.*alarmAttachmentsControl1*.SetFriendlyAlarmId(My.Page Variables.AlarmID)



where *alarmAttachmentsControl*<sup>1</sup> matches what you have in the **Name** property of your Alarm Attachment Viewer control.

- 5. Save and close the response plan.
- 6. Go to System Configuration > My Organization > Modules > Alarm Processing > Alarm GUIs.
- 7. From the **Graphical User Interface** area, double-click the **Alarm Resolution Form** GUI to open it for editing.
- 8. From **Toolbox**, expand **Alarm Types**.
- 9. Drag the Alarm Attachments Viewer control to the Alarm Resolution Form.

: Toolbox 👻	Overview - Alarm GUIs 🔣 A	larmAttachmentRP 🔣 Resolve Alarm 🎨 Shi	ow Resolution Form 🖉 💾 Alarm Resolution Fo	orm 👻 👻	Properties - (Alarm Re	esolution Form)
😋 🍅 🦓	alarmAttachmentsControl2	~			🗮 🗉 🥸 🖉	
Forms					10 24 E	
Administrator	🛃 Design Surface 📑 Event P	Pages		4 ۵		
Alarm Types				0	<ul> <li>Basic Settings</li> </ul>	
	2 Alarm Activity				Anchor	Top, Left
Pointer					Dock	None
	3 Add Comments				Enabled	True
Activity Types Editor					> Location	6, 436
Lists all the activity types contra	Add Comments					
Alarm Activity Grid	Add Commence			dd	Name	alarmAttachmentsControl1
Displays activities associated			·		> radurig	0, 0, 0, 0
Alarm Attachments Viewer	1				> Size	150, 150
A control to view and add/rem	4 Categorise Alarm				Tab Index	19
					Tab Stop	True
Alarm Stack Grid	Resolution Type				Tag	alarmAttachmentsControl1
Displays an are acave plantis and	insolution type				Visible	True
Alarm View Grid						
Displays alarms raised within a						
Event Grid	C					
Displays events associated wit						
Event Property Grid		Drag and drop file or internal	media object			
Displays properties on a given						
	11					
Manual Alarm Types Combo Box						
Displays all the manual alarm t	· · · · · · · · · · · · · · · · · · ·					
Resolution Types Combo Box	File Count: 0		Total Size: 0 B			
Displays all the resolution type	Hie Count: 0		Total Size: 0 b	, ,		
- Development Trans Editor						
Resolution Types Editor	5 Actions					
Suppressed Alarm Point Grid			_	~		
Displays alarm points that hav	🐼 Resolve 🛛 🚺 Park	👚 👚 Escalate 🛛 📑 Generate Repor	t 🛛 🚳, View Recorded Video 🧯	🔀 Close		
Suppressed Event Grid						
Displays events from suppress						
Threat Level Grid						
Threat Level Grid				×		
				~		

10.Save and close the **Alarm Resolution Form** GUI. An operator can now view and add attachments when handling an alarm. See <u>Adding Alarm Attachments</u>.

# **Configuring Track Classification When Handling Alarms**

When you handle an alarm from a track, the alarm defaults to the current track classification that you have configured for the track. You can use the **Track Classification** control to change the classification.

**Note**: You cannot create new classifications. You can only select from your existing classifications. You can define new classifications in **System Configuration**. See <u>Track Display</u>.

Initially, when an alarm is raised, the current track classification is displayed in the **Track Classification** control. A drop-down list displays all the classifications that are available in Control Center. An operator can decide to keep the existing classification or change the classification, depending on their requirements.

You must have type permissions to handle alarms. See <u>Type Permissions</u>.

To enable operators to specify track classifications when handling alarms, you can configure a response plan to display the **Track Classification** control.



The following example describes how to add a Track Classification control to your Alarm Processing.

- Go to System Configuration > My Organization > Modules > Alarm Processing > Alarm SOP.
- 2. From the **Graphical User Interface** area, double-click the **Template SOP GUI** to open it for editing.
- 3. From **Toolbox**, expand **Layout**.
- 4. Drag a **Panel** control between the control labelled **Standard Operating Procedure** and the panel below it.
- 5. From Toolbox, expand Plug-In Controls.
- 6. Drag the **Track Classification** control to the new panel.

	Overview - Template SOP			
S 😀 🥦	TrackClassificationPluginControlGeneratedControl1			
orms				
dministrator	😸 Design Surface	Event Pages		
larm Types				
pplications	-			
ashboard	🤗 Alarm Han	dling		
ialogs				
eographics	Alarm Details			
ayout	Pitarini Octoris			
lug-in Controls	Alarm ID:	b/Aam/D		
Pointer	Alarm Type:	blAamType		
- Button List Control	Alarm Point	blAamPoint	Properties - (Template SO	PP)
A button list control	Alarm Location:	biDateCreated		
Chromium Web Browser Control	Date Created:		0. Z* ==	
V OF ONDER Dasked Web Droma			Basic Settings	
Conversation Manager Control		1	Enabled	True
Printiant Hessenger Chat Control	Standard Operating P	mcedure	Name	track Classification PluginControlGeneratedControl1
Create Conversation Control	Standard Operating P	rocedure	Tab Stop	True
V Instant Messenger Create Co	Titla		Tag Visble	track Classification PluginControlGeneratedControl 1 True
Rss Feed Control	•	•	Behaviour	itte
Contract of Res Parks			Anchor	Left, Right
Track Classification Control	Classification		Dock	None
Cassification GUI control for the processing of the second sec	•		> Location	0.0
Track Table Control			> Size	264, 100
Displays all trades' information				
VNC Viewer Control	•	•	Anchor	
Tight WVC wewer.	Park 🥏	Confirm		
Web Browser Control	I Park W	comm		
A share that Because restant	The second se			

- 7. Save and close the **Template SOP GUI**.
- 8. Go to System Configuration > My Organization > Modules > Alarm Processing
- 9. Double-click the **Display Alarm Handling Window** response plan to open it for editing.
- 10.Double-click the **Setup SOP GUI** shape.
- 11. Add the following line:

My.PageVariables.sopGUI.*trackClassificationPluginControlGeneratedControl1*.SetAlarmI d(My.SystemVariables.AlarmID)

where *trackClassificationPluginControlGeneratedControl1* matches what you have in the **Name** property of your **Track Classification** control.

# everbridge<sup>®</sup>

Display Alarm Handling Wind	ow [Master Page]
	Show Resolution
Video Requested?	EventLocation My.PageVariables.sopGUI.Variables.RFS = My.SystemVariables. RemoteFederationService My.PageVariables.sopGUI.Variables.DateCreated = My.SystemVariables .DateCreated My.PageVariables.sopGUI.Variables.ResolutionCommentsRequired = My. PageVariables.ResolutionCommentsRequired My.PageVariables.sopGUI.pgPanel.[Initial Task Name] = My. SystemVariables.ResolutionCommentsRequired
Configure SOP Tile	My.PageVariables.sopGUI. trackClassificationPluginControlGeneratedControl1.SetAlarmId(My. SystemVariables.AlarmID)

- 12. If you are handling an alarm from a track in a federated system, then you are not allowed to change the track classification. The following steps describe how to configure the **Display Alarm Handling** window so that the **Track Classification** control is not displayed, if the alarm is a federated alarm.
  - a. From **Toolbox** > **Basic**, add a **Select** shape after the **Setup SOP GUI** step.
  - b. Double-click the step to open it. Add a variable as follows:
    - Label: Type a name of your label, for example, RFS.
    - Type: Remote Federation Service
    - Scope: Page
  - c. From Toolbox > Basic, add a Script shape. Connect the Select step to the Script step.
  - d. Double-click the **Script** shape to edit it.
  - e. Add the following line:

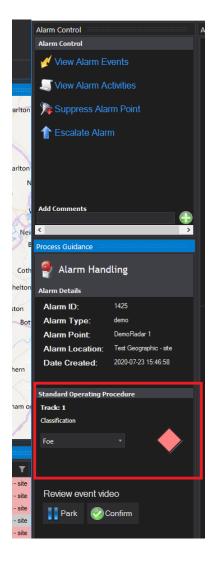
My.PageVariables.sopGUI.trackClassificationPluginControlGeneratedControl1.Vis ible=False

f. Connect the **Else** connector to the **Configure SOP Tile Layout** shape.



Setup SOP GUI	
Select	RF8 Script
Configure SOP Tile	Seript

- 13. Save and close the response plan.
- 14.When an operator handles an alarm raised on a track, for example, by right-clicking an asset on your map and selecting **Handle Alarm** or by double-clicking an alarm in your Alarm Stack, when the Alarm Handling window is displayed, the **Classification** drop-down list is available.





# **Alarm Stack Views**

Views that define filtering, grouping and sorting can be assigned to users and user groups. The System Alarm Stack Grid then shows the appropriate alarms with the specified formatting to that user based on the views available against an alarm (multiple Views will be shown in tabs across the top of the alarm stack grid).

## Creating an Alarm Stack View

To display business-specific alarms to different users or groups, create a customized Alarm Stack View for each user or group. To create a new Alarm Stack View:

- Open System Configuration > System Objects. The Overview- System Objects pane appears.
- 2. Double-click **Alarm Types** to view the **Alarm Stack Views** window. The **Alarm Types** editor appears.
- 3. Click the Alarm Stack Views tab. The Alarm Stacks Views editor appears.



4. To create a new alarm stack view, click New in the toolbar. Alternatively, right-click the Alarm Stack Views editor and select New. The Alarm Stack View wizard appears displaying the Basic Details page.

Alarm Stack View	v Dialog			$\times$
Basic Details				
Label:	Default			
Description:	The default alarm stack view			
Schedule:	😰 24 x 7 Allow			
	Show new alarm count			
		Next >	Car	ncel

5. Enter a label, for example Test Alarm Stack View and enter a description.



6. Configure the alarm view to be visible at specific times by selecting a schedule. By default, the view is configured to be visible 24 x 7, therefore, you can provide a solution where an entire collection of alarms (a view) becomes hidden or available to a control room based on the time of day.

For example, when the working day ends for a satellite control room and the operators go home, then the alarms can be automatically reassigned to a central control room.

In addition to the schedule property of a view, which determines the enabled state of the view, a response plan shape is provided to set the enabled state of a view. The schedule option can be used to commission logic to control views for operators and could be used to provide override options to the schedule. When a view is not available, any users, user groups, or clients specified in the view will be shown a message.



View Not Available This alarm stack view is not currently available. Please contact your system administrator.

7. Select the **Show new alarm count** check box to show the number of active alarms in the tab and to select a color for the alarm count text. The **Alarm Stack View** tab displays the number of unique alarms to view and the specified color when there are new alarms in the view.

De	fault Fi	re Alarms (6)			
ID	Priority	Date Created	Description	Alarm Type	Alar

8. Click Next. The Query page appears.

**Note**: Alarm Stack Views could include Supervisor View, Operator View, Maintenance View, Head of Security View, and so on.

## **Alarm Stack View Filter Conditions**

The **Filter Conditions** page displays all the filters for the alarms to appear in the Alarm Stack View. When configuring which alarms to show in an Alarm Stack View, you can create comprehensive filters using the **Filter Conditions** dialog.

No criteria are required to filter unhandled alarms as by default, they are automatically included.



Alarm Stack View Dialog	<u></u> )		×
Filter Conditions			ſ
OR AND Add Rule Add Group			
	1		
< Back	Vext >	Car	ncel

When the Filter Conditions dialog is first displayed, you can perform the following actions:

- Choose an Evaluation Operator (OR & AND)
- Add a Rule to the current Group
- Add a new Group as a Child of the current Group

#### Choosing an Evaluation Operator

The Filters Conditions page enables commissioning users to construct filters where each of the rules can be evaluated against the selected operator. You can add new lines for the filter using Add Rule.

For example, in the below example, the OR evaluation operator is selected, and three new rules are added. Alarms will be included in the Alarm Stack View if the following conditions are met:

- Priority less than or equal to 6, OR
- SLA Level equals 1, OR
- Alarm Point is Security Operations Center

Priority	▼ LessThanEqu ▼ 6 ♥ Dele	te
SLA Level	▼ Equals ▼ 1 🗘 Dele	te
Alarm Point	▼ Equals ▼ @Security Operations Dele	te

**Note**: Multiple instances of the same column can match values specified under (OR). Unique columns must match all specified values under (AND).

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In the following example AND is selected as the evaluation operator. Alarms will be included in the Alarm Stack View, if the following conditions are met:

- Priority less than or equal to 6, AND
- SLA Level equals 1, AND
- Alarm Point is set to Security Operations Center

#### Filter Conditions

1 🗘 Delete
5

Alarm Stack Views setup this way will include fewer alarms than the previous example as the conditions are more constrained. You can also include conditions that evaluate the same property multiple times for different values. For example:

OR AND Add Rule Add Group	
Alarm Point   Equals  Door 15  Delete	
Alarm Point   Equals  UK  Delete	
Alarm Point   Equals  Generations  Delete	

In the above figure, alarms will only be included if the Alarm Point is either Door 15, UK, or Security Operations Centre.

Since there is no logic present to allow Control Center to sense-check these filters, you can construct a Filter where the AND operator is applied to the conditions (similar to the above figure), which will result in no alarms being shown in the Alarm Stack View.

#### Using Child Groups with Filters

To allow construction of more complex Filters, the Commissioning Engineer can add Groups to the Filter Conditions by using the Add Group button.

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Alarm Point <ul> <li>Equals</li> <li>Door 15</li> <li>Delete</li> <li>Alarm Point</li> <li>Equals</li> <li>UK</li> <li>Delete</li> <li>Alarm Point</li> <li>Equals</li> <li>Security Operations</li> <li>Delete</li> <li>Delete</li> <li>Delete</li> <li>Alarm Point</li> <li>Equals</li> <li>Security Operations</li> <li>Delete</li> <li>Delete</li> <li>Delete</li> <li>Delete</li> <li>Equals</li> <l< th=""></l<></ul>
Alarm Point   Equals  UK  Delete
Alarm Point   Equals   Constructions   Delete

After adding a Group, you can add an Evaluation Operator and Rules. When a Group is added, the Group of conditions are evaluated based on the Evaluation Operator chosen for the Group, then the result of the Group evaluation is added to the parent and then the parent Evaluation Operator is applied.

	OR AND	Add Rule	Add Group		
	Alarm Point	▼ Equals	▼	Delete	
4	Alarm Point	▼ Equals	▼ <b></b> UK	Delete	
	Alarm Point	▼ Equals	Security Oper	ations Delete	
	OR AND	Add Rule	Add Group De	lete	
	Priority	▼ Equals	-	1 🔹 Delete	
	SLA Level	▼ Equals	-	2 🗘 Delete	

Group logic is always evaluated first. Therefore, for in the above figure, the logic for including an Alarm in this Alarm Stack View is as follows:

- Priority equals 1, AND
- SLA Level equals 2

You can then evaluate using the following Parent Logic:

- Alarm Point equals Door 15, OR
- Alarm Point equals UK, OR
- Alarm Point equals Security Operation

Therefore, an Alarm for any Alarm Point with the Priority set to 1 and SLA Level set to 2 will always be included. In addition, an Alarm with any Priority and any SLA Level for Alarm Points Door 15, UK, or Security Operations will be included.



#### Filter Conditions

	OR AND Ad	dd Rule 🛛 🛛 Ad	d Group	
⊿	Priority	▼ Equals	•	1 🔹 Delete
	SLA Level	▼ Equals	•	2 🔹 Delete
	OR AND	Add Rule	Add Group De	lete
	Alarm Point	▼ Equals	▼ ■Door 15	Delete
	Alarm Point	▼ Equals	▼	Delete
	Alarm Point	▼ Equals	▼ ■ Security O	perations Delete

In the above figure, as the Groups are in reverse order, an alarm must now meet different conditions before being included in the Alarm Stack View.

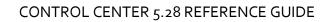
- Alarm Point equals Door 15, OR
- Alarm Point equals UK, OR
- Alarm Point equals Security Operations
- This is then evaluated with the Parent Logic:
- Priority equals 1, AND
- SLA Level equals 2

In this example, an Alarm for any Alarm Point with the Priority set to 1 and SLA Level set 2 will only be included if the Alarm Point is Door 15, UK, or Security Operations.

You can also nest Child Groups inside each other and add any number of Child Groups to the selected parent as shown in the following example:

#### Filter Conditions

Priority	▼ Equals	▼ 1 ▲ Delete
SLA Level	▼ Equals	▼ 2 ▲ Delete
OR AND	Add Rule	Add Group Delete
Alarm Point	▼ Equals	▼ ■Door 15 Delet
Alarm Point	▼ Equals	VK Delet
Alarm Point	▼ Equals	<ul> <li>Security Operations</li> <li>Delet</li> </ul>
OR AND	Add Group Delete	
Custom Int1	▼ Equals	▼ 2 🗘 Delet
Custom Text1	▼ Equals	Priority     Delet





In the above figure, Alarms will be included in this Alarm Stack View only if:

Custom Int1 equals 2 AND Custom Text 1 equals Priority

AND

Alarm Point is Door 15 OR UK OR Security Operations

AND

Priority equals 1

AND

SLA Level equals 2

**Note**: It is necessary to restart the Client if any changes are done to the Default SLA. The changes will be saved but are not applied in the alarm stack unless the client is restarted.

#### Columns, Sorting and Grouping

The default columns for the Alarm Stack View are listed in the **Columns** tab > Right Pane. Additional fields for available event data are listed on the left.

Alarm Stack View		d Grouj	ping						- [	
Columns Available Co	Sorting olumns:	Grouping	]	Columns v	vill be show	vn in this orc	ler:			
Handling U	Jser	<u>^</u>		Title	Display№	AutoWidth	Width	Is Icon	Is Link	
Handling C SLA Level Parked Parked Step Custom Int Custom Int Custom Int Custom Tex Custom Tex Custom Tex	p 12 13 13 xt1 xt2 xt3		$\begin{array}{c c} \leftarrow \\ \hline \end{array} \\ \hline \\ \\ \\ \end{array} \\ \hline \\ \\ \\ \\$	DateCrea Descripti AlarmTyp AlarmPoi Location TopLocat State Status Count	Icon ID Priority Date Crei Descriptii Alarm Tyı Alarm Too Location Top Loca State Status Count Last Rece		Auto Auto Auto Auto Auto Auto Auto Auto			
Custom Bo Custom Bo										

To select a new column for the Alarm Stack View:

 Select the SLA Level from Available Columns. To move the available Columns will be shown in this order box, click the right arrow. SLA Level now appears at the bottom of the list in Columns and is available in the list on the right.



- 2. Use the Up and Down arrows to arrange the fields in the order you want them to appear in the Alarm Stack View. Sorting alarms in the Alarm Stack View determines the order in which they appear.
- 3. Click the **Sorting** tab. The **Sorting** tab appears with the **Available Columns** on the left. The current sorting is displayed on the right. By default, the sorting is based on Priority and DateCreated.

🛅 Alarm Stack View Dialog					×
Columns, Sorting and Grouping					
Columns Sorting Grouping Available Columns:		Sort by these fields in	this order:		
Icon	•	Name	Sort Direction		
ID Last Received Event Description Alarm Type Alarm Point Location Top Location State Status		 Priority DateCreated	Ascending Descending		
Count Handling User					
Handling Client	•				
		< Back	Next >	Car	ncel

Grouping alarms allows alarms to appear in the Alarm Stack grouped together in a collapsible section. For example, alarms could be grouped by priority, location, status or date.

4. Leave the default settings for Sorting as-is and click the **Grouping** tab. The **Grouping** tab appears with the **Available Columns** on the left. The current grouping is displayed on the right.



🛅 Alarm Stack View Dialog					$\times$
Columns, Sorting and Grouping					
Columns Sorting Grouping					
Available Columns:		Group by these fields in this ord	er:		
lcon	*	Name			
ID					
Priority	=				
Date Created					
Last Received Event					
Description	<b>←</b>	]			
Alarm Type	→				
Alarm Point	$\uparrow$				
Location		1			
Top Location					
State					
Status					
Count	-				
		< Back Ne	ext >	Ca	ncel

- 5. Click **Priority in Available Columns** and click the right arrow to move it to the group by these field in this order field. Priority now appears in the right field. In the Alarm Stack, alarms are displayed grouped together by Priority in a collapsible section. Operators click the section to reveal all Priority 1 alarms, for example.
- 6. Click **Next**. The **Viewers** page appears.

#### Alarm Stack View Columns

The existing DateCreated and LastReceivedEvent columns within the Alarm Stack Columns continue to display the time and date that the Alarm was created and updated relative to the local user Time and Date settings.

In addition, a commissioning user can add the following columns to an Alarm Stack:

- Date Created (UTC) Displays the time and date that the Alarm was created using UTC time.
- **Date Created (Origin)** Displays the time and date that the Alarm was created at the Location where the Alarm originates from.

The **Date Created (Origin)** column converts the time recorded for the Alarm Creation within Control Center and uses the Time Zone property for the Location associated to the Alarm to adjust the time shown.

The time of the Alarm creation is the time that the Alarm was created in Control Center. This is not the time that the event triggering the Alarm was first created, unless it is explicitly supported by the device sub-system and the Control Center driver used to communicate with the device.



The **Date Created (Origin)** column checks the Location associated to the Alarm for a Time Zone, where a location has no Time Zone configured, all parent locations will be checked and the Time Zone of the first parent that has a value configured will be used. Where no Time Zone can be established, the time will be shown as UTC.

In a Federated environment where a Hub Site receives the Alarm from a Node site, the time created is the time that the Node Server, which owns the Alarm, created the Alarm instead of the time when the Hub received the Alarm.

#### **Location Filter**

When working with many locations, it is useful to view the Alarms associated with the individual location. Filtering the Alarm Stack View on Alarm Point is currently possible however, this requires the user to enter a value to filter on.

Alarm Stack Views support Location Filtering using an Alarm Stack View that dynamically updates with alarms based on the Location currently selected in the visible System Explorer Tree. Location Filtering displays alarms in the Alarm Stack where the Location of the Alarm has been selected in the System Explorer Tree.

When an Alarm Stack is displayed based on location filter setting, the Alarm Alert States are normally filtered to display only those alerts that are applied to the Location selected currently. That is, the presence of a Location Filtered Alarm Stack will restrict the display of Alarms to the selected Location even if the Location Filtered Alarm Stack is currently not selected.

The System Explorer tree count of Alarms (where configured) updates accurate counts of alarms for every Location regardless of which Location is selected.

This new behavior is configured within the Alarm Stack View Dialog Location Filter Page. By default, Location Filtering is not enabled for a new Alarm Stack View.

🛅 Alarm Stack View Dialog		<u> </u>		×
Location Filter				
Filter location by System Expl	lorer selected location.			
Location Type	Filter Action			
Other	Filter			
Country	Filter			
Region	Filter			
Site	Filter			
Building	Filter			
Floor	Filter			
Room	Filter			
Zone	Filter			
Customer	Filter			
	< Back	Next >	Ca	ancel



Enable Location Filtering on this panel to configure how Alarms from the selected site will be filtered.

📾 Alarm Stack View Dialog — 🗆							
Location Filter							
	Filter location by System Explorer selected loca	ition.					
	Location Type	Filter Action					
	Other	Filter					
	Country	Filter		~			
	Region	Filter					
	Site	Clear					
	Building	Parent					
	Floor	Filter					
	Room	Filter					
	Zone	Filter					
	Customer	Filter					
		< Back N	ext >	Car	ncel		

Alarm Stack View Location filtering is based upon Location Types and for each Location Type there are three possible Filter Actions.

Filter	If selected, when a Location of that Type is selected in the System Explorer, all Alarms for that Location will be shown in the Alarm Stack.
Parent	If selected, when a Location of that Type is selected in the System Explorer, the Alarm Stack will find the Parent Locations for that Location until a Location is found where the Location Type is set to Filter. The Alarm Stack displays all the Alarms for that Parent location. For example, when a user selects a location within a Site (a building) the Alarm Stack will display all the alarms for that Site. Equally if a Floor within a Building is selected, the Alarm Stack can display all the alarms for that Building.
Clear	If selected, when a Location of that Type is selected in the System Explorer, a blank Alarm Stack appears.

Consider the following Site Location Structure:

System Explorer for Site

- Globe (Location Type Other)
- Europe (location Type Region)
- UK (Location Type Country)
- Headquarters (Location Type Site)
- Building 1 (Location Type Building)
- Floor 1 (Location Type Floor)



- Floor 2 (Location Type Floor)
- Device 1 (A device that generates an Alarm)
- Floor 3 (Location Type Floor)
- Device 2 (A device that generates an Alarm)
- Building 2 (Location Type Building)

#### **Location Filter Scenarios**

#### Scenario 1 - Devices 1 and 2 generate alarms – Location Filtering Set to Clear

With the Location Filtering enabled in the Alarm Stack View and set to Clear for all Location Types, selecting any location in the System Explorer results in an empty Alarm Stack.

#### Scenario 2 - Devices 1 and 2 generate alarms – Location Filtering Set to Filter on all Types

With the Location Filtering option set to Filter for all Location Types, selecting any Location in the System Explorer results in the Alarm Stack only showing the Alarms for the selected Location. Therefore, selecting Floor 2 means that Alarms from Device 1 is shown in the Alarm Stack. Selecting Floor 3 means that Alarms from Device 2 will be shown in the Alarm Stack. Selecting Building 1 means no alarms will be shown in the Alarm Stack as there are no devices that are direct children of Building 1.

#### Scenario 3 - Devices 1 and 2 generate alarms – Location Filtering Set to Parent

Configure Location Filtering as shown in the Location Filter example. Select Floor 1, Floor 2 or Floor 3 to show all the Alarms from Building 1 and all the sub-locations. This will also include the Alarms from both Device 1 and Device 2.

🖬 Alarm Stack View Dialog — 🗆 🔿							
Location Filter							
Filter location by System Explorer set	elected location.						
Location Type		A					
Other	Filter						
Country	Filter						
Region	Filter						
Site	Filter						
Building	Filter						
Floor	Filter						
Room	Filter						
Zone	Filter						
Customer	Parent		~				
	< Back	Next >	Car	ncel			

#### Viewers

To specify who can view this Alarm Stack View, set permissions on it. For example, create an Alarm Stack View for the Head of Security, which includes all alarms, and create another Alarm Stack View of only access control alarms for the security guards.

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- 1. Using the **Search** dialog, select users and/or groups and click **Add**. The **Search Objects** dialog appears displaying groups, user or Windows clients.
- 2. Search and find the users to view this Alarm Stack View, for example, Users. Click **OK** to confirm the selection. The Users/Groups appears in the **Viewers** page.

🔲 Alarm Stack View Dialog			×
			~
Viewers			
Use this page to specify the clients, groups and/or users that this view is visible to.			
Sa Users			
Add Remove Clear			
< Back	Finish	Ca	ncel

3. Click **Finish**. The Test Alarm Stack View appears in the Alarms Stack Views.

#### **Editing an Alarm Stack View**

To edit an Alarm Stack View, in the Alarm Stack View window, click the Alarm Stack and select **Edit** in the toolbar.



Alternatively, in the Alarm Stack to select it. Right-click and select Edit.

Overview - System Objects System Alarm Stack					
Alarm Types Alarm Stack Views					
Alarm Stack Views					
Name	Description				
Test Alarm Stack View	New				
Edit					
	Delete				

The Alarm Stack View Wizard appears with the Alarm Stack parameters populated and ready for editing.



## **Deleting Alarm Stack Views**

To delete an Alarm Stack View, in the Alarm Stack View window, click the Alarm Stack and select **Delete** in the toolbar.



Alternatively, click the Alarm Stack to select it. Right-click and select **Delete**.

Alarm Type	Alarm Types Alarm Stack Views Alarm Handling Groups						
Alarm Stack Views							
Order	Label	Description					
iii 1	Default	The default alarm stack view					
j <del>a</del> 2	New Alarms						
i 🖉 😥	North America	New View					
		New Group					
		Edit					
		Delete					
		Delete					

## Alarm Stack View Groups

Alarm Stack View Groups enable you to access multiple Alarm Stack Views without overloading the Alarm Stack on the Alarm Stack Views configuration page. Alarm Stack View Groups are useful for creating hierarchical groups of Alarm Stack Views which contain several separate Alarm Stack Views.

**Note**: When setting up the following Alarm Stack Views for display on an Alarm Stack, the display for the end-user can appear congested and may not fit the width of the screen.

Alarm Ty	Alarm Types Alarm Stack Views Alarm Handling Groups						
	Alarm Stack Vi	ews					
Order	Label	Description	Available				
i 1	Default	The default alarm stack view	True				
jiii 2	North America		False				
🖬 3	New Alarms		False				
<b>m</b> 4	London view		True				
<b>m</b> 5	Paris view		True				
<b>6</b>	Dubai view		True				
mi 7	Delhi view		True				
iiii 8	Supervisor's view		True				
			j				

The Alarm Stack View tabs wrap or occasionally display off the edge of the screen.

System	Alarm Stack											
16	Default	A View for Super	rvisors All Alarms	for London All A	larms for Paris All A	larms for Was	hington All Alarms	for Bosto	n All Alarr	ns for Nev	v York All Alarms for Munich All Al	arms for Vienna All Alarms for Sar
	Priority	Date Created	Description	Alarm Type	Alarm Point T	Location	Top Location	State	Status	Count	Last Received Event	



To create an Alarm Stack View Groups:

1. Right-click anywhere in the Alarm Stack Views Configuration screen and select the New Group option.

Alarm Ty	Alarm Stack Views Alarm Stack Vie	ws
Order	Label	Description
1 2 3	Default A View for Supervisors All Alarms for London All Alarms for Paris	The default alarm stack view A supervisor View
5 6 7 8	All Alarms for Washington All Alarms for Boston All Alarms for New York All Alarms for Munich	New View New Group Edit Delete
9 10 11 12	All Alarms for Vienna All Alarms for San Francisco All Alarms for Philadelphia All Alarms for Minneapolis	

The Alarm Stack View Group wizard opens.

- 2. Complete the following fields to configure the Alarm Stack View Group Wizard:
  - **Label** A name for the Alarm Stack Group.
  - **Description** A description of the Alarm Stack View.
  - **Show New Alarm Count** (Optional) When checked, displays the sum of the new alarms from the Alarm Stack Views within this Group.
  - Shown New Alarm Count Color (Optional) When selected, the tab background changes to the selected color to provide a visible indication that there is a new alarm in one of the Alarm Stack Views contained within

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📔 Alarm Stack Grou	ıp Dialog		_2		×
Basic Details					
Label:	North America				
Description:	A group for the North American Alar	m Stack Views			
	Show new alarm count Bright R	ed ×		-	
			Save	Ca	ncel
			Save	Cal	icei

Once created, the Alarm Stack View Groups are shown in line with the Alarm Stack Views but will be shown with a different icon to distinguish between a Group and a View.

Alarm Types     Alarm Stack Views     Alarm Handling Groups     4 >       Alarm Stack Views     Alarm Stack Views     4 >								
Order	Label	Description	Available					
iiii 1	Default	The default alarm stack view	True					
iii 2	New Alarms		True					
iiii 3	Delhi view		True					
<b>E 4</b>	Supervisor's view		True					
m 5	Dubai view		True					
<b>6</b>	London view		True					
m 7	Paris view		True					

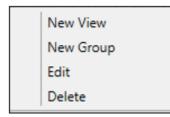
Once a Group is created, drag and drop the existing Alarm Stack Views to that group to view them grouped. When dragging a group of Alarm Stack Views, the location of the highlighted section (shown in blue) indicates where the Alarm Stack Views will be dropped. In the following case, the Alarm Stack Views for the European region will be nested inside the Europe Alarm Stack View Group.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



Order	Label	Description	Available
🗐 1	Default	The default alarm stack view	True
📰 2	Delhi view		True
📰 3	Supervisor's view		True
📰 4	Dubai view		True
i 🗐 5	Europe		True
<b>m</b> 6	London view	-	True
<b>m</b> 7	Paris view		True
🛅 8	Frankfurt		True
🕅 9	Amsterdam		True

Alternatively, you can create new Alarm Stack Views directly inside a Group by selecting a Group, then right-clicking on the selected Group and selecting the New View option.



Once the Alarm Stack View Groups are configured appropriately, the Alarm Stack Views are displayed.

Alarm Typ	Alarm Stack Views		4 ۵
	Alarm Stack View	/5	
Order	Label	Description	Available
i 📻 1	North America	A group for the North American Alarm Stack Views	True
iii 2	All Alarms for Washington		True
🛅 3	All Alarms for Boston		True
<b>m</b> 4	All Alarms for New York		True
<b>E</b> 5	All Alarms for San Francisco		True
m 6	All Alarms for Philadelphia		True
<b>m</b> 7	All Alarms for Minneapolis		True
m 8	Charlotte		True
i 📻 9	Europe	A group for the European Alarm Stack Views	True
10	All Alarms for London		True
iii 11	All Alarms for Paris		True
12	All Alarms for Munich		True
iii 13	All Alarms for Vienna		True
iii 14	Frankfurt		True

With the Alarm Stack Views configured as shown above, you can view the following Alarm Stack Views. Notice how the Alarm Stacks for the European Cities are displayed in the following figure and the general alarms are hidden from the view.

System	Alarm Sta	(k																			
<b>=</b>	General		Europe																		
<b>1</b>	London	iew	Paris view	Frankfurt	Amsterdam																
	T	ID	T Priority * T	Date Created *	Description	Y	Alarm Type	Y	Alarm Point	Y	Location	Y	Top Location	T	State	Y	Status	Y	Count	T	Last Received Event 🛛 🔻



When an Alarm enters the stack for a device within London, the user is alerted to this as the Alarm Stack Group Europe is highlighted with the configured color and the number of new Alarms created since the View was last opened is also shown.

ystem Alarm Stack									
North America (3) Europe	_	All Alarms for Ne	w York All Alarms fo	r San Francisc	o All Alarms for Phi	ladelphia	All Alarm	s for Minn	eapolis
ID Priority Date Created	Description	Alarm Type	Alarm Point▼	Location	Top Location	State	Status	Count	Last Received Event

Open the Europe Alarm Stack View Group to reveal the European City Alarm Stack Views. Existing Control Center functionality allows the Alarm Stack View for Vienna to show a highlight and number for new alarms since the user last opened the View.

ľ	System A	istem Alarm Stack											
		orth America II Alarms fo		s for Paris All Ala	ms for Munich	3) All Alarms for Vie	enna						
	ID	Priority	Date Created	Description	Alarm Type	Alarm Point T	Location	Top Location	State	Status	Count	Last Received Ever	nt

## **Nesting Alarm Stack View Groups**

The Alarm Stack View Groups can be nested within other Alarm Stack View Groups. Ensure that there is enough vertical space available to display all the appropriate groups and their child Alarm Stack Views.

System Alarm Stack						
📔 North America	Europe					
🕞 🛛 East Europe	West Europe					
🕞 All Alarms for	Vienna Germany					
🕞 All Alarms	for Munich					
ID Priority Da	ate Created Descript					

When an Alarm Stack View Group that contains children is dragged and dropped to another location, all the children for that Alarm Stack View Group will also be moved.

## Alarm Stack View Index

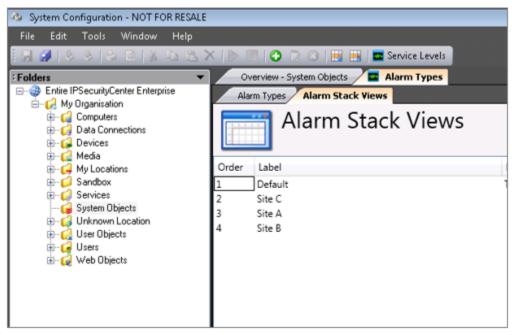
You can specify the order of Alarm Stack Views if a user has access to more than one view.

To configure the order of views:

- 1. Open the Alarm Types management interface by double-clicking on the Alarm Types object in System Explorer.
- 2. Select the Alarm Stack Views tab.



3. Select a view and use the Increase and Decrease buttons in the menu bar to set the index of a view. The order of the views is shown in the Order column.



- 4. Close the Alarm Types management interface and review the Alarm Stack in the user interface. The order of the Alarm Stack Views is changed.
  - Default Silv C Silv A Silv B ID Priority Date Created Description Alarm Type Alarm Point ¥ Location Top Location State Status Count Last Received Event

## Alarm Controls in Graphical User Interfaces

Control Center provides the following GUI controls to complement the underlying Alarm Types logic for end-users.

Activity Types Editor	Provides an editor to allow for activity types to be made outside of system configuration.
Alarm Activity Grid	Shows all activities for the selected alarm.
Alarm Stack Grid	Shows all alarms in the system based on filtering options detailed in Alarm Stack Views which are managed via Alarm Types editor.
Event Grid	Shows all event for the selected alarm.
Events Property Grid	Displays properties for a given event.



Manual Alarm Types Combo Box	Shows all alarm types marked as "manual alarm" in a dropdown control for easy user selection of a manual alarm type.
Resolution Types Combo Box	Shows all resolution types configured in alarm types.
Resolution Types Editor	Provides an editor to allow for resolution types to be managed outside of system configuration.
Resolved Alarm Grid	Shows all resolve alarms in the system.
Suppressed Alarm Point Grid	Shows all suppressed alarm points in the system.

#### Grids

Grids are controls available within Control Center to display alarm event information to users.

The following grids are displayed:

- Alarm Stack Grid All unresolved alarm events
- Event Grid All the events for the selected alarm
- Alarm Activity Grid All the activities for the selected alarm
- Resolved Alarm Grid Previously resolved alarms
- Suppressed Event Grid All events that are suppressed for a group of Alarm Points

Grids are available in the GUI toolbox under the Alarm Types section.

#### **Generic Grid Properties**

Grids and objects use many of the same Basic properties and controls. The most common properties are outlined below.

Anchor	The anchor property defines how a control's size and position is affected by changes to the size of its parent control. It can be set to any combination of Left, Top, Right or Bottom. Anchoring a control to its parent control ensures that the anchored edges remain in the same position relative to the edges of the parent control when the parent control is resized.
Dock	The dock property defines the side of the parent control to which this control is docked. It can be set to either Left, Top, Right, Bottom, Fill or None. Docking a control to the left causes the control to align itself with the left edges of its parent control and to resize as the parent control is resized.
Enabled	The enabled property determines if the control is enabled, and therefore can be interacted with, when shown in a tile. A control can either be enabled, allowing user interaction, or disabled, which causes the controls



	area to be overlaid with a white background and the text " <control-name> disabled". This property can be set dynamically.</control-name>
Location	The location property determines the control's top left point inside its parent control. Its x and y parameters may not be set to less than zero as this would cause the control's top left point to be outside the visible bounds of the parent control.
Margin	The margin property determines the controls Right, Left, Top and Bottom margins inside its parent control. No margin may be set to less than zero, as this would cause the control to be outside the visible bounds of the parent control.
Padding	The padding property determines the controls Right, Left, Top and Bottom padding between the control and its parent control. No padding may be set to less than zero, as this would cause the control to be outside the visible bounds of the parent control.
Size	The size property determines the height and width of the control. Neither width nor height may be a negative number. Changes to this property, if Dock property is set, to anything but "None" may be ignored, depending on the value of the Dock Property. (If "Fill", all changes are ignored, if "Top" or "Bottom" then changes to width are ignored, or if "Left" or "Right" changes to height are ignored).
Name	The name property assigns a unique identifier to the control. Each control in a GUI must have a unique name that can be referenced by other components in Control Center. To edit the Name, click the ellipsis () to display the standard Control Center GUI Editor Control Rename dialog. Enter a Name and click the OK button. The Name is validated against all the other controls in the GUI and if there is a conflict with another control name a red exclamation mark appears. Enter another Name and try again.
	Rename GUI control 'guiGoogleEarth1'       Image: Control Names can only contain alphanumeric characters.         guiGoogleEarth1       Image: Control Names can only contain alphanumeric characters.         guiGoogleEarth1       Image: Control Names can only contain alphanumeric characters.
Header Font	The header font property allows the user to specify which font to use for the column headers in the grid. The user must select a Control Center defined font using the standard font type editor (shown below).



	Font       Body Text         Ba       AaBbC Heading 1         Dos       AaBbC Heading 2         Ent       Loc         AaBbCc Sub Heading 1         Ma       AaBbCc Sub Heading 2         Pac       AaBbCc Title         Size       Body Text         Tat       AaBbCc Description         Vis       Be         Aut       Aut	
Row Font	The row font property allows the user to specify which font to use for the rows in the grid. The user must select an Control Center defined font using the standard font type editor (shown above).	
Auto Refresh	The auto refresh property determines if the grid automatically refreshes its data. To enable auto refresh, select True.	
Auto Refresh Interval	The auto refresh interval determines the interval after which a refresh occurs, if auto refresh is enabled. The time set in this parameter is set in seconds.	
Tab Index	The tab index is used to define a sequence that users follow when they use the Tab key to navigate through a page. The tab order starts at the lowest tab index value and works through in increments.	
Tab Stop	The tab stop is used to define when object that should be stepped over in the tab index progression.	
Tag	The tag property is a storage field for user-defined text, which may be retrieved dynamically at runtime.	
Visible	The visible property determines if the control can be viewed at run-time (i.e. when shown in a tile). Changes to this property when in design-time (i.e. when editing the GUI) are ignored. This property can be set dynamically.	

## Alarm Stack Grid

The Alarm Stack Grid is the control used for displaying all the views associated with the current user, user groups, and current client. Control Center includes a GUI already populated with the Alarm Stack Grid, called the System Alarm Stack.

The grid loads all alarms and updates as and when new alarms occur.



More than one grid can be created to serve different purposes. However, only one grid is required in most solutions. If more than one view is available to a user, the views are displayed in separate tabs.

You can configure a grid to show only a sub-set of the Alarm Stack Views so that a grid is used for a specific purpose, for example, show all access control alarms.

To view the default Alarm Stack Grid:

- 1. Click **System Objects** > **Graphical User Interface** > **Alarm Stack**. The Alarm Stack Grid appears in the Design Surface.
- 2. Click the System Alarm Stack object. The System Alarm Stack properties appear in the right window.

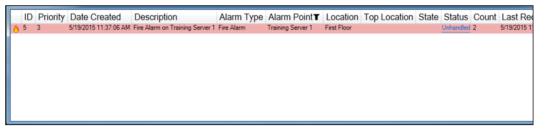
Property	Description		
Hide View Selection	Determines if the <b>View</b> toolbar is shown that allows the user to change the view. To prevent the user from changing views, set this property to <b>True</b> .		
	The <b>Clickable Count Column</b> property determines if the <b>Count</b> column, when displayed to users, appears as a clickable hyperlink. If set to <b>True</b> , when users click the column the <b>Count Column Clicked</b> event is raised. The <b>Event Column Click</b> must be set in Events, for example:		
Clickable Count	Alarm Point Location State Status Count Top Location		
Column	Camera 2 on Vidi Unhandled 7		
	Camera 8 on Vidi Unhandled 7		
	Camera 5 on Vidi         Unhandled         7           Camera 9 on Vidi         Unhandled         7		
	Camera 9 on Vidi Unhandled 7 Camera 6 on Vidi Unhandled 7		
	Camera 3 on Vidi Unhandled 7		
Scriptable Eleme	ents		
Property	Description		
Enabled	The enabled property allows the control to be enabled or disabled at runtime.		
Visible	The visible property allows the control to be shown or hidden dynamically at runtime.		
Tag	The tag property provides storage for user defined text, which can be read or set dynamically at runtime.		
Events	·		
Property	Description		



Count Column Click	Occurs when a user clicks the count column hyperlink. The ClickedAlarmID is passed as a variable to the event page.	
Custom Column Click	Occurs when a user clicks on the custom column hyperlink. The ClickedAlarmID is passed as a variable to the event page.	
Alarm Selected	Occurs when a user selects the alarm row. The Selected AlarmID is passed as a variable to the event page.	
Alarm Double Clicked	ccurs when a user double-clicks on an alarm row. The oubleClickedAlarmID is passed as a variable to the event page.	
Alarm Right Clicked	ight Occurs when a user right-clicks on a row in the Alarm Stack. The RightClickedAlarmID is passed as a variable to the event page.	

## Alarm Stack View Selection in Alarm Stack Grid Control

Although a user has permissions to see multiple Alarm Stack Views, it is recommended to create a screen with one specific view or a selection of views. For instance, the user might want to see all fire alarms on a dedicated screen for better visibility.



To configure a User Interface to only show specific views:

- 1. Create the required Alarm Stack Views in the Alarm Types interface.
- 2. Create a new user interface and open it in the user interface editor.
- 3. Add an Alarm Stack Grid control.

and the second		Properties - (Alarm Stack)
4 1000	🛤 avarrestackGridt 🗰 🗰 (Events)	- In the second s
Provident	Design Surface (Scientification)	Partnersent Colors
Balance     Consensations	Owner         Year 2         Alarm Type         Alarm Type         Alarm Type           ID         Drestly Data Consult         Description         Alarm Type         Alarm Type           III         IIII         Description         Provide State Consult         Provide State Consult           IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	The second secon
Lotend     Lotend     Lotend     Lotend     Lotend     Conserve     Monarri      Monarri      Conserve     Conserve	Control Type     Control Type     Know     Know	Anima Space Service Pro- Control Court Court Column: Control Court Column: Control Court Column: Control Court Column: Control Court Column: Control Court Column: Control Column:

- 4. In the properties for the Alarm Stack Grid, click Views to Show.
- 5. Select the views to show, click **OK** and save the user interface.



Alarm Stack Views						
All			]			
Order	Name	Description				
1		The default alarm stack view				
2	Fire Alarms	Shows alarms of type Fire				
Ok	Car	icel				

By default, Alarm Stack Grids are set to show all views that a user has permission to see.

#### Event Grid

The Event Grid object displays all the events for a specified alarm. The user is required to specify an Alarm ID before the Event Grid displays any data. The Alarm ID can be inherited from other objects such as Grids or Response Plans.

In Alarm Stack View can be created such that operators can click an alarm to see the event grid for that alarm. All the alarm's related events are included in the Event Grid.

To view the default Event Grid object:

- In System Configuration, right-click anywhere in the middle pane and select New > Graphical User Interface. A new Graphical User Interface appears in the list of GUIs.
- 2. Specify a name for the new GUI and press Enter.
- 3. Double-click the new GUI item to open it. The new GUI appears in the Design Surface.
- 4. In the **Toolbox**, click **Alarm Types** to expand the menu. Find the Event Grid object and drag it to the Design Surface. The Event Grid appears in the Design Surface.



5. Click the Event Grid to select it and configure the properties that appear on the right.

Appearance			
Column Visibility	Allows you to select the columns to be shown on the grid:		

#### CONTROL CENTER 5.28 REFERENCE GUIDE



Scriptable Eleme	Appearance Column Visibility Scription, ReceivedDateTime. Header Font Row Font Absaic Settings Anchor Dock Enabled D Location Margin Name All All		
Property	Purpose		
SetAlarmID	The SetAlarmID method is used to set the alarms that the Event Grid displays events for. Without an Alarm ID, the Grid does not display any data.		
Enabled	The enabled property allows the control to be enabled or disabled at runtime.		
Visible	The visible property allows the control to be shown or hidden dynamically at runtime.		
Tag	The tag property provides storage for user defined text, which can be read or set dynamically at runtime.		

#### Adding an Events to Event Grid

The Event Grid does not define any events.

To display the Event Grid with events from a specific alarm:

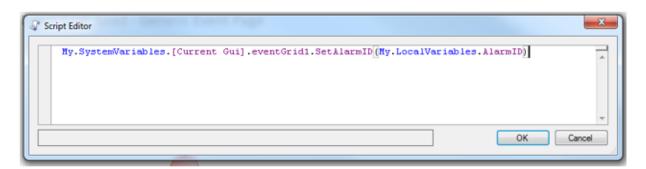
- 1. Create a new GUI.
- 2. Open **Alarm Types** in the toolbox and drag-and-drop the **Event Grid** control to the Design Surface.
- 3. Set control properties as appropriate.
- 4. React to the **Load** event of the GUI.

4	Overview - Alarm Types 🖉 Event Grid					
P	Event Grid			•	¥ (Events)	•
	Design Surface	E Response Plan for GUI 'Event Grid'			📚 (Events)	
Γ.					🝺 Load	
	Received Date Time	Description	Alarm Point	Location	Close	

- 5. Create a new Local Whole Number variable called AlarmID.
- 6. Add a script shape and enter the following script.

My.SystemVariables.{Current Gui].eventsGrid1.SetAlarmID (My.LocalVariables.AlarmID)





- 7. End the event page with a **Finish** shape.
- 8. Create a new Response Plan.
- 9. Create a new **Page** variable called **AlarmID** with **Type Whole Number**, and **Visibility** set to **Required**.
- 10. Create a new GUI variable called **EventGrid**.
- 11. Set the prototype of the variable to be the same GUI that was created in the first step of this exercise.
- 12. Create a new **Tile Layout** variable, called **EventTile**, and set an appropriate prototype value.
- 13. Add a script shape to the response plan and enter the following script.

🖓 Script Editor	22
Hy.PageVariables.EventGrid.Variables.&larmID = Hy.PageVariables.&larm	ID
	OK Cancel

- 14. Add a **Configure** tile layout shape and set the contents of a tile on the tile layout to be the GUI variable created earlier **EventGrid**.
- 15. Add a **Display** tile layout shape and set the tile variable to **EventTile**. Set the display area and target object's properties to appropriate values.
- 16.Complete the response plan with a **Finish** shape.
- 17. Run the response plan passing the ID of the alarm to show events for.

#### Alarm Activity Grid

The Alarm Activity grid displays all activity for a specified alarm. An Alarm ID is required for the Activity Grid to display any data. The Alarm Activity Grid is available from the Alarm Types section of the GUI toolbox.

To view the Alarm Activity Grid object:

- Open System Configuration and right-click anywhere to select New > Graphical User Interface. A new Graphical User Interface appears in the list of GUIs ready to be named.
- 2. Specify a name for the new GUI and press Enter to confirm it.



- 3. Double-click the new GUI item to open it. The new GUI is loaded in the Design Surface.
- 4. In the **Toolbox**, click **Alarm Types** to expand the menu. Find the **Alarm Activity Grid** object and drag it into the Design Surface. The **Alarm Activity Grid** appears in the Design Surface.



- 5. Click the Alarm Activity Grid to select it.
- 6. The Properties for the object appear in the right window. The properties in Alarm Activity Grid are defined in the Generic Grid Properties section above.

	Properties - (Alarm Activity Grid)					
:	]≵↓					
۵	Appearance					
	Header Font	Sub Heading 2				
	Row Font	Body Text				
۵	Basic Settings					
	Anchor	Top, Left				
	Dock	None				
	Enabled	True				
⊳	Location	13, 4				
⊳	Margin	3, 3, 3, 3				
	Name	alarmActivityGrid1				
⊳	Padding	0, 0, 0, 0				
⊳	Size	572, 434				
	Tab Index	0				
	Tab Stop	True				
	Tag	alarmActivityGrid1				
	Visible	True				
۵	Behaviour					
	Auto Refresh	False				
	Auto Refresh Interval	10				

#### Scriptable Elements

Property	Purpose		
SetAlarmID	The <b>SetAlarmID</b> is used to set which alarm the Event Grid displays events for. An Alarm ID must be set before the grid displays any data.		
Enabled	Allows the control to be enabled or disabled at runtime.		
Visible	Allows the control to be shown or hidden dynamically at runtime.		
Tag	Provides storage for user defined text, which can be read or set dynamically at runtime.		



#### **Alarm Activity Grid Events**

The Alarm Activity Grid does not define any events. To display the Alarm Activity Grid with activities from a specific alarm:

- 1. Create a new GUI, called **New Activity Grid**.
- 2. Add an Alarm Activity Grid control from the Alarm Types area of the toolbox.
- 3. Set control properties as appropriate.
- 4. React to the **Load** event of the GUI.

	Overview - Alarm Typ	es 🖉 Event Grid				- × ×
Γ	🐺 Event Grid				📦 (Events)	•
	Design Surface	E Response Plan for GUI 'Event Grid'			😵 (Events)	
Г					🕨 Load	
	Received Date Time	Description	Alarm Point	Location	Close	

- 5. Create a new Local variable called AlarmID with Type Whole Number.
- 6. Add a script shape and enter the following script:

```
My.SystemVariables.{Current Gui].alarmactivityGrid1.SetAlarmID (My.LocalVariables.AlarmID)
```

Script Editor	×
My.SystemVariables.[Current Gui].alarmActivityGrid1.SetAlarmID(My.LocalVariables.Ald	armID)
	-
ОК	Cancel

- 7. End the event page with a **Finish** shape.
- 8. Create a new Response Plan.
- 9. Create a new Required, Page scope, Whole Number variable called AlarmID.
- 10. Create a new GUI variable called ActivityGrid.
- 11. Set the prototype of the variable to be the "New Activity Grid" GUI.
- 12. Create a new **Tile** Layout variable, called "Event Tile", setting an appropriate prototype value.
- 13. Add a script shape to the response plan and enter the following script:

My.PageVariables.ActivityGrid.Variables.AlarmID= My.LocalVariables.AlarmID)

Script Editor		23
Ny.PageVariables.ActivityGrid.Variables.Al	mID = My.PageVariables.AlarmID	~
	ОК	Cancel



- 14.Add a configure tile layout shape, setting the contents of a tile on the tile layout to Event Tile.
- 15. Add a display tile layout shape, setting the tile variable to Event Tile. Set the display area and target objects properties to appropriate values.
- 16.End the response plan with a **Finish** shape.
- 17. Run the response plan passing the ID of the alarm to show activity for.

#### **Resolved Alarm Grid**

The Resolved Alarm Grid displays previously resolved alarms.

To view the Resolved Alarm Grid object:

- In System Configuration, right-click anywhere in the middle pane and select New > Graphical User Interface. A new GUI appears in the list of GUIs.
- 2. Specify a name for the new GUI and press **Enter** to confirm it.
- 3. Double-click the new GUI item to open it. The new GUI appears in the Design Surface.

Resolved Alarm Grid Displays resolved alarms raise

- 4. In the **Toolbox**, click **Alarm Types** to expand the menu. Find the **Resolved Alarm Grid** object and drag it into the Design Surface. The Resolved Alarm Grid appears in the Design Surface.
- 5. Click the Resolved Alarm Grid to select it. The **Properties** for the object appear in the right window. The properties in Resolved Alarm Grid are defined in the Generic Grid Properties section above.

	Properties - (Resolved Alarm Grid) 🔹		
•-	]≵↓   ₪		
۵	Appearance		
	Column Visibility	ResolutionType, ResolvingUser,	
	Header Font	Sub Heading 2	
	Row Font	Body Text	
۵	Basic Settings		
	Anchor	Top, Left	
	Dock	None	
	Enabled	True	
⊳	Location	20, 20	
⊳	Margin	3, 3, 3, 3	
	Name	resolvedAlarmGrid1	
⊳	Padding	0, 0, 0, 0	
⊳	Size	673, 492	
	Tab Index	0	
	Tab Stop	True	
	Tag	resolvedAlarmGrid1	
	Visible	True	
۵	Behaviour		
	Auto Refresh	False	
	Auto Refresh Interval	10	



Scriptable Elements		
Property	Purpose	
SetAlarmID	The SetAlarmID is used to set which alarm the Resolved Alarm Grid displays events for. The Alarm ID must be set before the grid displays any data.	
Enabled	The enabled property allows the control to be enabled or disabled at runtime.	
Visible	The visible property allows the control to be shown or hidden dynamically at runtime.	
Tag	The tag property provides storage for user defined text that can be read or set dynamically at runtime.	
Events		
Property	Purpose	
SelectedAlarmChanged	Occurs when the user clicks one of the Resolved Alarm Grid rows. Can be used where an engineer creates a user interface containing two controls – a Resolved Alarms Grid with all the events and activities listed beneath it. In this case, the Grid is used to react to the operator's click event to populate the event and activities grid at the bottom of the GUI.	

#### Suppressed Alarm Grid

The Suppressed Alarm Point Grid displays all the alarm points that are currently suppressed. The Suppressed Alarm Point Grid is available from the Alarm Types section of the GUI toolbox.



Properties	The properties in Suppressed Alarm Point Grid are defined in the Generic Grid Properties section above.	
Scriptable Elements	There are no scriptable elements in the Suppressed Alarm Point Grid.	
Events		
Property	Purpose	



Г

Alarm Point Selected	Calls the scriptable method called Set Alarm Points and sets the AlarmPoint variable. This occurs when you click one of the Suppressed Alarm Point Grid rows.
-------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------

#### Suppressed Event Grid

Т

The Suppressed Event Grid displays all events that have been suppressed for a specified group of alarm points. The Suppressed Event Grid is available from the Alarm Types section of the GUI toolbox.

Suppressed Event Grid Displays events from suppress

Properties

:Pr	Properties - (Suppressed Event Grid)		
:			
۵	Appearance		
	Column Visibility	Location, AlarmPoint, Description	
	Header Font	Sub Heading 2	
	Row Font	Body Text	
۵	Basic Settings		
	Anchor	Top, Left	
	Dock	None	
	Enabled	True	
Þ	Location	4, 21	
⊳	Margin	3, 3, 3, 3	
	Name	suppressedEventGrid1	
⊳	Padding	0, 0, 0, 0	
⊳	Size	673, 492	
	Tab Index	0	
	Tab Stop	True	
	Tag	suppressedEventGrid1	
	Visible	True	
۵	Behaviour		
	Auto Refresh	False	
	Auto Refresh Interval	10	

Property	Purpose	
Column Visibility	This property allows the user to determine which columns on the grid are shown using the type editor shown below:	
Scriptable Elements		

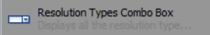


Property	Purpose	
SetAlarmPoints	Use this method to set the Alarm Points that must display suppressed events. Without an Alarm Point ID, the Grid is unable to display any data.	
Enabled	Allows the control to be enabled or disabled at runtime.	
Visible	Allows the control to be shown or hidden dynamically at runtime.	
Tag	Provides storage for user defined text which can be read or set dynamically at runtime.	
Focus	Set the focus to the control.	
Events	The Suppressed Event Grid does not define any events.	

## **Resolution Type Combo Box**

The Resolution Type combo box allows selection of Resolution Types from a drop-down control. This control can be used on a Resolution Form, for example.

The Resolution Type combo box is available from the Alarm Types section of the GUI toolbox.



The properties in Resolution Types combo box are defined in the Generic Grid Properties section below.

	Properties - (Tutorial GUI)		
	]≵↓		
٥	Basic Settings		
	Anchor	Top, Left	
	Dock	None	
	Enabled	True	
Þ	Location	272, 13	
⊳	Margin	3, 3, 3, 3	
	Name	resolutionTypesEditor1	
Þ	Padding	0, 0, 0, 0	
⊳	Size	251, 364	
	Tab Index	1	
	Tab Stop	True	
	Tag	resolutionTypesEditor1	
	Visible	True	

Scriptable Elements	
Property	Purpose



	Read out the selected resolution type into a text variable for use with other shapes such as Resolve Alarm.
Events	The Resolution Type combo box does not define any events.

## Manual Alarm Type Combo Box

The Manual Alarm Type combo box allows the selection of Manual Alarm Types. The list of manual alarms is generated from the Alarm Types marked as 'manual alarm'. The Manual Alarm Type combo box is available from the Alarm Types section of the GUI toolbox.

Manual Alarm Types Combo Box

The properties in Manual Alarm Type combo box are defined in the Generic Grid Properties section below.

	Properties - (Tutorial GUI)		
:	:::::::::::::::::::::::::::::::::::::		
۵			
	Control Size	Medium	
	Description		
	Title	Title	
۵	Basic Settings		
	Anchor	Top, Left	
	Enabled	True	
	Name	manualAlarmTypesCombo1	
	Tab Index	0	
	Tab Stop	True	
	Tag	manualAlarmTypesCombo1	
	Visible	True	

Scriptable Elements	
Property	Purpose
GetSelectedAlarmType	Read out the selected alarm type into a text variable for use with other shapes such as Create Alarm.
Events	The Manual Alarm Type combo box does not define any events.

## Alarm and Alert Count in System Explorer

The System Explorer can show the number of alarms or alerts currently active in a location (including all child locations).



-		Global
	÷	🌉 GCC (1)
	÷	III US

The Count to Show property in System Explorer allows you to select the type of count to show against a Location. For example, number of alerts, number of alarms, or no count.

System Configuration - NOT FOR RESALE			
File Edit Tools Window Help			
📓 🖉 S S S S S K 🖏 🤁 🗙 (S	III. (2	12 目示を止日	힌 윤 • 후 🔌 😽 🖃
Overview - System Objects DropZone	-	roperties - (System Explorer)	
🔝 guiSystemExplore 🔹 🙀 (Events) 🔹			
Design Surface Event Pages	0		
T Design Surface Cvent Pages		Appearance	
	÷.	Contact Details Configuration	(Collection)
Locations		Location Details Configuration	(Collection)
III US		Show Search Show Search Online States	True
Wiew contacts for this Location	100	Base Styles	None Alerts
	100	Count To Show	Alams
Locations		Image Size	Profilins
Type Search Text Here	0	Basic Settings	
		Anchor	Top, Left
🖻 🟢 Global		Dock	Fil
🗉 🏢 GCC	3	Enabled	True
🕀 🏢 US	0	Location	0.0
	0	Margin	3, 3, 3, 3
		Name	guiSystemExplorer1
	9	Padding	0.0.0
	_ 10D	Size	249. 524

## Alarm Trails on Maps

When you create alarms for a geo-aware event, the alarm trails for that event will appear on the map surface.

To view alarm trails on the map surface:

- In System Configuration > System Objects, create an alarm by clicking the Add (plus sign) icon. The Alarm Types Wizard appears.
- 2. In the **Basic Information** page, enter the required information such as label, icon, and click **Next**.
- 3. In the **Evaluation Alarm Creation Event** page, configure the appropriate information for the device being configured. For this example, using the DemoRadar device, provide the following information and click **Next**:
  - **DeviceType** DemoRadar \ 2D Track Simulator driver
  - **Device(s)** DemoRadar Device \ Geo-aware device
  - **Event** TraceUpdated \ Position Changed event
- 4. In the Collation and Actions page, select Collate by TrackID.
- 5. Confirm the Alarm Type details and click Finish. The Alarm Type appears in the Alarm Types Overview window.

The Alarm Trails appear on the end-user map surface and the trail object icon is replaced with the **Alarm Trails** icon.

- 6. From **Locations**, open the scene editor for the scene that you want to display alarm trails on. The scene editor opens.
- 7. In the Appearance Properties section, set the Alarm Stack View option to All.



, _		
~	Appearance	
	Alarm Stack View	All
	GIS Layers	Click to edit
	Layers	Click to edit
	Lock Extents	False
	Pan to Location c	False
	Scene Search M	None
	Zoom to Location	False
	Zoom to Max Exte	False

The Alarm Trails should now appear on the end-user map surface replacing the Trail Object icon with the Alarm Trails icon.

Once Alarm Trails are displayed, right clicking on the tracking object displays the Handle Alarm (Alarm ID) – When selected, the alarm is handled for the Alarm Id shown.

## **Applying Alert States to Alarm Trail Paths**

When a trail is associated with an active alarm by its track id then the icon and trail color will change to reflect any alert state configured for the alarm.

To apply an alert to a Trail Path:

- In System Configuration > System Objects, create an Alert State object and configure the following properties:
  - **Color** The color for the Alert path. Set a different color from Trail Path Color.
  - **Duration** The time required to display the alert, for example, 60 seconds.
  - **Icon** The icon for the alert. Set a different icon from the Trail icon.
  - **Parents to alert** Location Type property of your parent location, for example, Country, site or region.
  - **Text** Text for displaying on the duration of the alerted state.
- From System Objects, open the Alarm Type created for the geo event related to the associated driver (demo radar, 2d track simulator and so on) and navigate to the Collation & Alarm Actions page. The Collation & Alarm Actions page appears.
- In the Alarm Actions > Alert State section, click Browse and select the newly created Alert State object. The Alert State Object is assigned to the Alert State property on the Alarm Type Wizard.
- 4. On the display area, verify if the alert has been applied to the object on the Scene.
- 5. The Trail icon or Alarm icon (depending on what was being displayed previously) should now be replaced with the Alert icon on the end-user map surface. However, if you did not configure an icon for the Alert object when applying it via the alarm on Trail Path, then the Alarm Trail paths will be displayed with the Alarm icon.

## **Configuring Alarm Handling Groups**



You can create Alarm Handling Groups to define which users can handle and/or resolve alarms based on the specified conditions. When no handling groups are defined for an Alarm Type or a Correlated Alarm Type, all users who have permission to view alarms from this alarm type can handle and resolve alarms.

You can configure Alarm Handling Groups to restrict users from handling and resolving certain alarms. To do this:

- At least one Alarm type is configured in the system.
- Create users or user groups for configuring permissions to handle alarms.

To configure Alarm Handling Groups:

- From System Configuration > System Objects > double-click on Alarm Type object. The Alarm Types page editor appears
- 2. Click the Alarm Handling Groups tab to create an Alarm handling group
- 3. Right-click on the empty space and choose **New Handling Group**. The **Alarm Handling Group Configuration Wizard** opens.
- 4. Enter the label and description and click **Next**.

Sa Alarm Handling	Group Configuration	_		$\times$
Basic Details				
Label:	Group 1			
Description:	Sample Alarm Handling Group			
		Next >	Ca	ncel

5. On the **Security Principals** page, click **Add** to add the user group you want to apply the handling group permissions to. For instance, **Users** and then click **Next**. The **Handle Conditions** dialog appears.



Sa Alarm Handling Group Configuration	-		$\times$
Security Principals			
Use this page to specify the groups and/or use	ers that t	his alarm	
Sa Users			
Add Remove Clear			
< Back	lext >	Car	ncel

6. This dialog is used to state the condition/conditions under which the user group can handle/resolve the alarms. You could specify as many conditions as required and choose the operator [AND/OR] to concatenate the conditions. You are allowed to define several nested condition groups here to meet the criteria for the user groups. It is perfectly acceptable not to specify any conditions. This will allow the users of the group to handle all alarms. Click Next to proceed.

Sa Alarm Handling Group Configura	tion	-	
Handle Conditions			
	ler which a user/user group specified in Sec	curity Principals page	: can
Andle the alarm.	dd Rule Add Group		
Priority	Y Equals Y	3 🛟 Delete	
Alarm Type	Contains Y Test	Delete	
	< Ba	ck Next >	Cancel

If the check box is left unselected, then no users can handle an alarm for the selected handling group.

7. Configure the Resolve Conditions page similarly to the Handle conditions page by selecting the Allow Resolving option and specifying the conditions for the users and then click Next.



_

8. Check the configuration on the summary page and click on Finish.

Sa Alarm Handling Group Co	onfiguration -	-		×
Summary				
Name: Description: Security Principals: Allow Handling: Handle Conditions: Allow Resolving: Resolve Conditions:	Group 1 Sample Alarm Handling Group Users True Priority Equals 3 AlarmType Contains Test True Priority Equals 4			
Click Finish, to commi	t changes and close the wizard.			
	< Back Finis	h	Can	cel

The alarm handling group created can be viewed under Alarm Handling Group tab in Alarm Types

Overview - System Obje	cts 🔗 Alarm Types		- ×
Alarm Types Alarm	Stack Views Alarm Handling Groups		4 ▷
Starm I	Handling Groups		
Label	Description	Handling	Resolving
Group 1	Sample Alarm Handling Group	True	True

To configure filter conditions, when the Filter Conditions dialog is first displayed, select Allow Handling and then specify one or either of the following conditions:

- Choose an Evaluation Operator (OR & AND)
- o Add a Rule to the current Group
- Add a new Group as a Child of the current Group



The Filters Conditions page enables you to construct comprehensive filters where each of the rules can be evaluated against the selected operator. You can add new lines for the filter using Add Rule.

In the below example, the OR evaluation operator is selected, and three new rules are added. Alarms will be included in the Alarm Stack View if the following conditions are met:

- Icon Equals to warning, OR
- Site Name Equals Globe

Alarm Handling Group Configuration	- 0	×
Handle Conditions		
Allow Handling Specify the conditions under which a user/user group specified in Security Principals page the alarm.           OR         AND         Add Rule         Add Group	ge can hanc	lle
Icon × Equals × warning De	elete	
Site Name	elete	
< Back Nex	t>	Cancel

**Note**: Multiple instances of the same column can match values specified under (OR). Unique columns must match all specified values under (AND).

- 9. Configure the Resolve Conditions for the Alarm Handling group in the same manner. In the following example, Alarm Groups are included in the Alarm Stack View only if the following conditions are met:
  - Priority less than or equal to 6, AND
  - SLA Level equals 1, AND
  - Alarm Point is set to Security Operations Center



Resolve Conditions				
Allow Resolving				
Specify the conditions unde	r which a user/user	group specified in Securi	ty Principals page can reso	olve the alarm.
OR AND	Add Rule	Add Group		
Priority	▼ Equals	•	6 🔹 Delete	
SLA Level	▼ Equals	•	1 🗧 Delete	
Alarm Point	▼ Equals	▼ Camberley	Delete	

The above configuration will include fewer alarms than the previous example as the conditions are more constrained. You can also include conditions that evaluate the same property multiple times for different values.

For example, in the below figure, the filters for a handling group are set such that alarm handling groups will only appear if the Alarm Point is either Door 15, UK, or Security Operations Centre.

	OR AND A	dd Rule Add Gro	Jup	
	Alarm Point	▼ Equals ▼	Door 15	Delete
4	Alarm Point	▼ Equals ▼	JUK	Delete
	Alarm Point	▼ Equals ▼	Security Operations	Delete
	OR AND	Add Rule Add	Group Delete	

Since there is no logic present to allow Control Center to sense-check these filters, you can construct a Filter where the AND operator is applied to the conditions (similar to the above figure), which will result in no alarms being shown in the Alarm Stack View.

For more complex Filters, you can add Groups to the Filter Conditions by using the Add Group button.

Alarm Point	Equals     Value     Equals	Delete
Alarm Point	▼ Equals ▼ ↓UK	Delete
Alarm Point	▼ Equals ▼ Security Operat	tions Delete
OR AND	Add Rule Add Group Dele	ete
Priority	▼ Equals ▼	1 🔹 Delete
SLA Level	▼ Equals ▼	2 🔦 Delete



After adding a Group, you can add an Evaluation Operator and Rules. When a Group is added, the Group of conditions are evaluated based on the Evaluation Operator chosen for the Group, then the result of the Group evaluation is added to the parent and then the parent Evaluation Operator is applied.

For more information on how the alarms are evaluated, see <u>Alarm Stack View Filter</u> <u>Conditions</u>.

10. Click **Finish** to complete the filter setup.

#### Handling Alarms Configured with Alarm Handling Groups

Typically, alarms are handled in one of the following four ways in Control Center:

- Alarm Stack View
- Map (when a trail point layer is configured)
- Response Plans
- Timebar

As alarm handling groups can affect the way you handle alarms, it is recommended to understand the impact it has on the modules that are associated with handing alarms. For example, in the Alarm Stack View, the Alarms with unhandled status will appear as a link only if you are part of the Alarm Handling group associated with the Alarm Type and the handling conditions defined in the Alarm Handling Group are met.

#### Handling Alarms From the Alarm Stack View

The status **Unhandled** does not appear as a link in the Alarm stack if:

- no users are specified in the Alarm Handling Groups, or Resolving Groups page, or
- if the conditions specified in the Alarm Handling Group are not met.

7111 3 9/18/2018 10:05:20 AM Fire alarm on GeViScope Server 1 Fire alarm GeViScope Server 1 Globe Unhandled 8 9/25/2018 3:26:52 PM

Similarly, the Resolve checkbox is no longer visible in the Alarm Stack, if the Handling Group conditions are not met:

т		ю	T Printly *	Bate Created * T	Description T	Alarm Type T	Alarm Point T	Location T Top	T Stat T Status	l' Count	T Last Received Event
	×	\$733	3	9/19/2018 5 44 22 PM	Fled Star - Device State Change on Training Server 1 - Camera	Red Star - Device State Change	Training Server 1 - Camera	Chil data	Untanded	2	\$192018 5.44 24 PM
	1	8743		9/19/2018 5 45 29 PM	Blue Star - Suspicious Package Found on Training Server 1 - Door	Blue Star - Suspicious Package Found	Training Server 1 - Door	Old data	Shanded	1	9/19/2018 5 45 29 PM
	*	8743	3	9/19/2018 5.45.56 PM	Red Star - Device State Change on D-Training Server 1	Red Star - Device State Change	O-Training Server 1	New Folder	Unhanded	4	9/20/2018 12:00-44 PM
	a	110	3	9/19/2018 5 46 01 PM	Credential Swiped on C-Training Server 1	Credential Swiped	C-Training Server 1	New Folder	Uniterded	1364	9/20/2018 3:01:07 PM
		1743		9/19/2018 5.46 11 PM	Door State Changed on C-Training Server 1	Door State Changed	C-Training Server 1	New Folder	Unhandled	2371	9/20/2018 3:01 TO PM
		174	3	9/19/2018 5 46 31 FM	Blue Star - Suspicious Package Found on C-Training Server 1	Blue Star - Suspicious Package Found	C-Training Server 1	New Folder	Untanded	ŧ	\$152018 5.46.21 PM
	*	1745		9/19/2018 5 48 11 PM	Interneg - Room Bury on C-Training Server 1	Maning - Room Buny	C-Training Server 1	New Folder	Unhanded	296	9000018 3:01 67 PM

#### Handling Alarms From the Timebar

You can handle alarms from the Timebar when viewing playback video on camera. However, when the necessary filter conditions assigned to the alarm type are not met, the following **Can't Handle Alarm** error message displays:

The selected alarm doesn't meet the alarm handling groups' conditions assigned to the alarm type.



#### Handling Alarms From a Map

You can handle alarms from a map like before, except that you can only handle alarms that can be handled as part of the handling group settings. An error message appears if there are no handling groups assigned to handle the alarm or if the handling conditions are not met. As handling alarms from a map requires setting up trail paths, refer to the Adding a Trail Point Layer section.

#### Handling Alarms From a Response Plan

When handling alarms via the Alarm Type shapes, Handle Alarm and Resolve Alarm defined in a response plan, the same alarm restrictions apply as the rest of the Alarm Handling functionality.

## Take Over of Alarm

You can allow any authorized end-user to take over the handling of an alarm currently being handled by another user. To enable other users to take over the handling of alarms, you must first define which users are permitted to takeover handling of alarms in Control Center using the Takeover handling of an alarm policy. Any authorized user can handle an alarm which is either currently unhandled or parked. Only one alarm can be handled at a time and by one user only.

#### Configuring Users to Take Over Handling of Alarms

To configure users to take over handling of alarms:

- From System Configuration window, right-click on the topmost folder where the policy should apply, for example, My Organization and select Security Policy....> Allow Alarm Handling Takeover.
- 2. Double-click the **Allow Alarm Handling Take over** policy and then define the users in the **Users and Groups** dialog box like the other user-security policies.
- 3. In the **Alarm Stack view**, click the **Status** of an alarm currently being handled by another user. When an alarm is taken over by a new user, the alarm stack updates the status message to reflect the name of the new user that is handling the alarm.

System Alarm Stack														
	ID T	Priority * 🔻	Date Created 🔺 🍸	Description T	Alarm Type	Ŧ	Alarm Point 🛛 🔻	Location	Ŧ	Top Location	Ŧ	State	T	Status 🛛 🝸
	7	3	2/12/2018 9:23:58 AM	Loop on Training Server 1	Intruder Alarm		Training Server 1	Devices						Handled by Administrator
	10	3	2/14/2018 9:51:41 AM	2d on Trackable Device 1	2d		Trackable Device 1	Devices						Handled by Operator
	11	3	2/14/2018 12:09:26 PM	Loop on Training Server 1	Loop		Training Server 1	Devices						Unhandled

When a user takes over the handling of an alarm which is currently being handled by another user, any response plan associated with the Alarm Handled Alarm Action of the corresponding Alarm Type will be run. For more information, see <u>Using Alarm Handled VRP to React to an Alarm Take Over</u>. In addition, the Audit trail for an alarm will include details of when alarm handling is taken over by another user.

**Note**: An alarm can only be taken over if the alarm is in the process of being handled and the user taking over the alarm has the security privilege to do so. In a Federated environment, you can take over the handling of any alarm that you have permissions to handle directly. This includes alarms raised and being handled at a remote site.



#### Configuring Assign Alarm Handled VRP

To assign Alarm Handled VRP:

- 1. In the **System Configuration** window, create a new response plan. Rename it to **Alarm Handled**.
- 2. From **System Objects**, create a new Alarm Type for an actual device such as an access control device, and navigate to the **Collation & Alarm Action** dialog.
- 3. Click **Browse** and select the Alarm Handled VRP, and then complete the wizard.
- 4. Open the Alarm Handled VRP. The VRP opens in the VRP editor.
- 5. Notice the variables available in the response plan configured for handling an alarm. The variables relevant to configuring alarm handling are added to the plan automatically. The following variables specific to alarm take-over are newly available:
  - PreviousHandlingClient
  - PreviousHandlingUser
  - PreviousHandlingClientRfs
- 6. In the VRP editor, drag and drop a script shape and enter the following information:

```
My.PageVariables.Output = "Alarm ID"+
My.SystemVariables.AlarmID.ToString +",Alarm Point:" +
My.SystemVariables.AlarmType +", Event Location:" +
My.SystemVariables.EventLocation.Label +", Priority:" +
My.SystemVariables.Priority.ToString
```

7. Right-click on the Alarm Handled VRP header and save it.

#### Using Alarm Handled VRP to React to an Alarm Take Over

To use Alarm Handled VRP to react alarms takeover:

- 1. Open the Alarm Handled VRP for editing.
- 2. Select all shapes, and right-click to select Toggle Breakpoint or press F9 to toggle the break points on the shapes. Then, save and close the response plan.
- 3. Right-click on the Alarm Handled VRP and select Enable Debugging.
- 4. From the Alarm Stack view, take over an alarm that has already been handled by another user or remote site in the system. Alternatively, raise an alarm by disabling the device that is configured in the Alarm Types Wizard to simulate an alarm. The Alarm Handled VRP opens in the VRP editor.
- 5. Use the toolbar to step through the logic and check the values of the response plan variables in the Watch window at the lower part of the response plan editor. Notice the values for the following variables:
  - PreviousHandlingClient Displays the name of the Control Center Client that was previously handling the Alarm if the alarm handling was taken over by another user. Is null if not applicable.
  - **PreviousHandlingUser** Displays the name of the Control Center User that was previously handling the Alarm if the alarm handling was taken over by that user. Is null if not applicable.



 PreviousHandlingClientRfs – Displays the name of the Control Center Client of the Remote Federation Site for the original handling user. Is null if it is a local site. For example:

PreviousHandlingClient	User 1 (test 18)	Generic Client
PreviousHandlingClientRfs	Remote Federated Service	Remote Federated Service
PreviousHandlingUser	Administrator	User

6. In the Alarm Stack view, click the Status of an alarm currently being handled by another user. When an alarm is taken over by a new user, the alarm stack updates the status message to reflect the name of the new user that is handling the alarm.

#### Notes:

- To populate the PreviousHandlingClientRfs property with a value in the Watch window of the Alarm Handled VRP, you must take over handling of Alarm raised at the remote site.
- To populate the PreviousHandlingClient and PreviousHandlingUser properties with values Watch window of the Alarm Handled VRP, you must take over handling of alarm at a different Client and as a different user.

## **Configuring Bulk Resolution of Alarms**

The Alarm Type Bulk resolve option enables authorized end-users to quickly and easily resolve multiple alarms that appear in the alarm stack. The users can select any number of qualifying alarms of an alarm type category in the Alarm Stack to resolve, as long as they are added to the Allow Bulk Resolution of Alarms Properties security policy. This section is divided into the following three parts to help understand the process of resolving bulk alarms:

- Add Users and Groups to the Bulk Resolution of Alarms policy
- Enable the Allow Bulk Resolution of Alarms in the Alarm Types wizard
- Resolve bulk alarms with a resolution

#### Adding Users and Groups to the Bulk Resolution of Alarms Policy

Using the Allow Bulk Resolution of Alarms security policy, you can determine which users are able to bulk resolve alarms. For example, you can create a list of users and groups who are able to bulk resolve alarms. By default, this new security policy will not be enabled, and there shall be o users or groups added to the Bulk Resolve policy.

To add users and groups to the Bulk Resolution of Alarms Policy:

- 1. In the **System Configuration** window, right-click on the topmost folder where the policy should apply, for example, **My Organization** and select **Security Policy**....
- 2. Select User Policies and double-click on Allow Bulk Resolution of Alarms. The Allow Bulk Resolution of Alarm Properties dialog appears.
- 3. Select the **Define Policy** check box and then click **Users and Groups** to define the priorities.



Administrator Administrators	Add Remove
2 Device Administrators	

4. Add users and groups. Click OK.

### **Alarm Stack Permissions for Alarm Points**

You can prevent a user from seeing alarms from assets that the user does not have permission to see. If the user does not have permission to see the asset, the alarm will not be visible in the alarm stack.

To enable this feature:

- 1. Open Global Settings and select the Alarms tab.
- 2. Select the **Don't allow users to see alarms if they lack read access to the associated alarm point** checkbox.

#### Location Aware Alarm Stack

Control Center will restrict the visibility of Alarms and Alarm Alert States if a Location Aware Alarm Stack is being displayed. Depending on the configuration of the Location Filtering for the Alarm Stack View, the scene may not display the Alert States associated to an Alarm unless an appropriate Location has been selected in the System Explorer tree.

**Note**: Manually applied Alert States are not affected by Location Filtering for the Alarm Stack View as the Alert State is not considered to be linked to an Alarm.

### Removing an Alarm From the Playback Timebar

To remove alarms from the video playback timebar:

- 1. Create a response plan to resolve a single alarm.
- 2. Run the response plan by providing the Handled alarm ID (for example, 1).
- 3. In the Alarm Stack View, verify if the alarm is resolved.

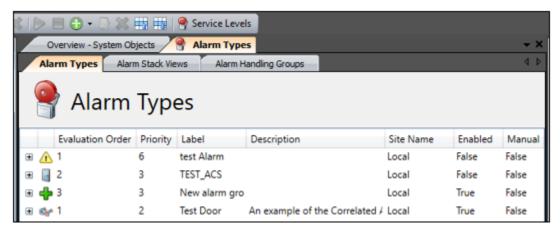


- 4. In the display area, view the video playback timebar. Alarm 1 is removed from the Playback Timebar.
- 5. Re-display the camera and check if alarm 1 is being displayed on the Playback timebar.

#### Displaying Alarm Indicators Generated by Correlated Alarms

To display correlated alarms on playback timebar:

Create a Correlated Alarm Type. For detailed steps, see <u>Correlated Alarms</u>. Correlated alarms provide the ability to define alarms that should only occur if one or more events occur/do not occur/ based on the conditions specified on the object within a defined time. When an event comes into the rules engine, it is evaluated against the list of correlated alarm types defined within the system. During this process, previous events can be referenced and added into evaluation. Once the Rule Engine has decided that a new alarm needs to be created, any existing alarms based on these events can optionally be resolved or reset.



Correlated alarm types are listed along with other classic alarm types. You might want to describe them appropriately to distinguish between them in the list.

Alarm types cannot be deleted if there are any alarms in the system of their type. This includes alarms that have been resolved. Alarms should be archived and removed from the live Pacific database if their alarm types need to be deleted. This applies to both classic and correlated alarm types.

With classic alarm types, the order that alarm types appear in the list affects the way alarms are created. Each event can only create a single alarm from a classic alarm type and they are evaluated in the order shown in the list. A single event can result in multiple correlated alarm types, so the order shown here is unimportant.

- 2. Create a Correlated Alarm Type.
- 3. Add the following 2 events:
  - Door forced
  - Device State Changed
- 4. Display a Camera on the display area.
- 5. Set the live camera to playback mode.



- 6. Display the Alarm Stack on the display area.
- 7. Generate the correlated alarm and view the alarm in the Alarm Stack view.
- 8. View the playback camera on the display area. The alarm icon should appear on the playback timebar.

## **Resolve All Alarms Method on Alarm Types Service**

Using the **Resolve All Alarms** option in the Alarm Types Service object, you can force resolve all Alarms that exist on the current server.

: Pr	Properties - (Alarm Types Service)						
	24 m						
4	<b>Connection Settings</b>						
	Load Balanced Host Nar	DOSDEMO-S-007 DOSDEMO d					
	Load Balanced Port Nun	9003					
۵	General Settings						
	Core Service	Core Service					
		9/13/2016 1:53 PM					
	Description	Alarm Types Service					
	Enabled	True					
	Environment	Production					
	Label	Alarm Types Service					
	Notification Service	Notification Service					
	Owner	System					
	Schedule	No schedule set					
	Tag						
4	Methods						
	Resolve All Alarms	Click to edit					
-	Репліззічна						
	Security	Security Settings					

When executed, you will be prompted to update several required fields before the current Alarms are resolved.

Resolve All Alarms	$\times$
	_
Run the Resolve All Alarms function	
Resolve all active alarms in the system.	
Specify required information to run the function	
To run the requested function the following information is required. Pleas fill in the properties below and click OK to continue.	e
✓ Resolve All Alarms	
Alarm Activity Description	
Resolution Type	
Resolving User	
Alum Activity Description	
Alarm Activity Description	
OK Cance	



In the **Resolve All Alarms** dialog, enter the appropriate Alarm Activity Description, Resolution Type, and Resolving User and click **OK** to resolve all the current alarms. Alternatively, use the Bulk Resolve Alarms method to resolve all alarms, which is also the recommended method to resolve all alarms.

In addition, you can use the Dynamic Action shape to automate the process of mass Alarm Resolution by targeting the Alarm Types Service and calling the Resolve All Alarms method.

## Alarm Indicators on Video Playback Timebar

The Timebar that is displayed when a Video Player is in Playback mode shows alarm indicators for alarms that are in the Alarm Stack. The Alarm indicators enable you to track the actual time when a specific alarm was raised. The alarm indicators will appear on any video camera configured within Control Center that is in playback mode at the time. The alarm icons that are displayed match the icons that appear in the Alarm Stack View.

#### Handling Alarms on Video Playback Timebar

To handle alarms on the video playback timebar:

- 1. Click on an alarm on the Camera playback timebar mode. An alarm is selected.
- 2. Right-click on the alarm and view the shortcut option. The ID of the selected alarm is displayed next to the Handle Alarm menu option, for example, Handle Alarm 1.
- 3. Click Handle Alarm 1.
- 4. Check the status of the alarm in the System Alarm Stack view area. It should now be changed to Handled by Administrator.
- 5. This works in the same way as the standard Handle Alarm option on Alarm Stack View, that is, you can see the status of the Alarm once it has been handled.

#### Notes:

- If you park an alarm using the Park Response Plan, the status in the System Alarm Stack view area changes to Parked by Administrator. Once parked, the alarm becomes available again on the Timebar.
- The alarm icons get updated when an SLA is updated, therefore, the existing Alarm indicator icon will reflect the changes made to the SLA.

## **Event Flood Prevention/Rate Limiting**

Control Center is designed to gather events from various devices, process it and raise alarms appropriately to notify the user. If the devices are raising events at a very high frequency, the system may get clogged up and slows down in raising the alarms, in response to the event.

For example: if there are 100 door closed events and a fire alarm event queuing up after that, the system would have to process 100 door closed events before processing the fire event, resulting in a delay to report the critical fire alarm to the user.



To provide an active and intelligent response to this situation, Control Center is now equipped with the rate limiting mechanism. If the device is configured for rate limiting, the events being pushed into the system by the device will now be grouped. A pre-defined time window is set by the administrator over which rate generation is measured. When the number of events received from the device during the window exceeds a threshold, then the device enters rate limiting mode. Instead of processing every event, the system will now maintain a count, per event type, of events received and process a single event with the event count recorded against that event.

For example: If the rate limit time window is set to 10 seconds and 100 door forced events occur in that time frame, only one event with count equal to 100 is recorded. This will result in only one event being processed and one alarm being triggered. This will make the system more efficient by making it possible to trigger only one alarm in response to 100 similar events and discarding the rest, increasing the chance of responding quickly to critical events. This not only reduces the latency but also increases the chance of quickly responding to the alarms.

#### **Configuring Rate Limiting in Control Center**

For a device to be rate limited it needs to be configured in the Global Settings by the administrator as follows:

- 1. Go to **System Configuration** and click on the **Global Settings** tab on the Top Ribbon toolbar to open the **Global Settings** window.
- 2. Click on **Enterprise Settings** in the left pane options.
- 3. In the **Enterprise Settings Configuration** window, you will see three options as shown in the picture below.

ns conment Variables	Enterprise Settings Configur	ation	
rprise Settings	Configure Enterprise Settings		
Reporting uages	Enterprise Settings: @Local Enterprise Settings		
rity	Name	V Value	V
Reporting	Support URL	http://support.cnlsoftware.com	
ng o Wall	^ Object		
	Object Selection Color	#FFFFA500	•
	^ RateLimit		
	Rate Limit Default		60 🗘
	Rate Limit Option	Disabled	•
	Rate Limit Window		60 🛟
	<ul> <li>VI Configuration</li> </ul>		
	System Explorer GUI	Baseline System Explorer	
	Main Menu GUI	Baseline Main Menu	
	Tooltip Template	Default Tooltip Template	
	Alarm Attachment Size limit per item. If left blank no	limit will be applied.	



Parameter	Description	Value
Rate Limit Default		Any positive integer. Default value is set to 60
Rate Limit Option	Option that can be chosen to configure the rate limit	<ul> <li>Disabled – Rate limiting option will be disabled</li> <li>Enabled – Rate Limit option will be enabled with the rate set in the properties window of the Device</li> <li>EnabledUsingDefault – Rate limit will be applied with the rate set in the Rate Limit Default variable mentioned above</li> </ul>
Rate Limit Window	The time frame measured in seconds over which the rate measurement is made	Any positive integer. Default is set to 60

- 4. Click **Apply** to save the settings.
- 5. Restart the application for the settings to be activated.

This will be the default settings applied to all devices monitored by the Control Center. If you choose to have a different rate limit for a device, it can be done as described in the steps below:

- a. Go to **System Configuration** and navigate to the location of the device you wish to change the rate limit for.
- b. On the **Properties** window, change the **Rate Limit** field value to the desired value.

~	Properties	
	Door Count	3
	Enabled	True
>	Event Interval	00:00:10
	Image Set	Standard
	Initial Camera Count	9
	Label	Training Server 1
>	Lock Dwell Time	00:00:03
ſ	Rate Limit	10
	Room Busy Threshold	3
	Simulate Events	False

- c. Go to **Global Settings** window and choose **Enterprise settings** from the left pane options.
- d. Set the rate Limit Option to Enabled.



e. Restart Control Center.

**Note**: The rate limit specified here will only be applied for this device. You can always roll back to default settings by selecting the **EnabledUsingDefault** option.

#### Understanding the Working of Rate Limit Mechanism

Though the rate limit settings are made globally to be applied to all devices in Control Center, the events coming from various devices are individually categorized under the device name. The classification and grouping of events are done separately for every device. To view the list of events from a device:

- 1. Go to **System Configuration** and select **Services** from the left pane options.
- 2. Open the **Connection Manager Service** by double clicking on it.
- 3. **Device Events** window opens to display the list of events.

V	Event Raised Time	Device Type	Device 🛛	Event V	Event Count
9	12/6/2018 12:00:10 PM	Training Server	Training Server 1	CredentialSwiped	89
	12/6/2018 12:00:10 PM	Training Server	Training Server 1	PerimeterBreached	1
-	12/6/2018 12:00:10 PM	Training Server	Training Server 1	PerimeterBreached	1
9	12/6/2018 12:00:09 PM	Training Server	Training Server 1	RoomBusy	1
9	12/6/2018 12:00:09 PM	Training Server	Training Server 1	RoomBusy	1
1	12/6/2018 12:00:09 PM	Training Server	Training Server 1	RoomBusy	1
9	12/6/2018 12:00:09 PM	Training Server	Training Server 1	RoomBusy	1
7	12/6/2018 12:00:09 PM	Training Server	Training Server 1	RoomBusy	1
9	12/6/2018 12:00:09 PM	Training Server	Training Server 1	DoorStateChanged	1
9	12/6/2018 12:00:09 PM	Training Server	Training Server 1	DoorStateChanged	1
Ŷ	12/6/2018 12:00:09 PM	Training Server	Training Server 1	DoorStateChanged	1
-	12/6/2018 12:00:09 PM	Training Server	Training Server 1	DoorStateChanged	1

You can observe that the events are individually listed before the rate limit is initiated. Then the events of similar type are grouped together with the event counter being incremented.

To have a closer look at the events that were handled by the rate limit mechanism

- a. Go to System Configuration and select Computers on the left pane options.
- b. Double click on the Rules Engine Server.
- c. The Rules Engine Events Viewer window opens to display the list of events.

Event Processed Time 🛛 🏹	Event Raised Time	Object Type 🛛 🖓	Object 🛛	Event V	Event C
12/6/2018 12:27:32 PM	12/6/2018 12:27:32 PM	ConnectionManager	Default	RateLimitedDeviceEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	PerimeterBreachedEventArgs	89
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorForcedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorForcedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ConnectionManager	Default	RateLimitedDeviceEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorForcedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorStateChangedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorStateChangedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorStateChangedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorStateChangedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	CredentialSwipedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	CredentialSwipedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	CredentialSwipedEventArgs	1
12/6/2018 12:27:22 PM	12/6/2018 12:27:22 PM	ITrainingServer	Training Server 1	DoorForcedEventArgs	1



The two entries from the connection manager is when the rate limit mechanism was initiated and ended. This status can be seen in the property window when the entry is selected.

•		
~	<b>Event Properties</b>	
	ConnectionManager	908428df-5822-44a1-b576-9438ece
	DateTimeRaised	12/6/2018 12:27 PM
	Device	72b0aef4f358-4b11-b1cd-817a46d
	DeviceTypeName	CNL IPSecurityCenter Driver Trainin
	IsRateLimited	True
~	Misc	
	EventId	36252d47-52f9-e811-892c-000c293
	SenderEventId	ae4c85e6-a9df-4a2e-964d-3a58952
	Senderld	908428df-5822-44a1-b576-9438ece

This property will be set to false when it is out of the rate limit window.

## **Suppressing Alarms**

You can temporarily suppress an alarm, for example, if you need to perform some maintenance on a device. You can suppress, extend and cancel suppression on alarms:

- From objects
- From response plans

#### **Suppressing Alarms Permissions**

You can only suppress alarms if you have, both:

- Execute permission of General Settings of the object whose alarm you want to suppress.
- The Alarm Point Suppression type permission. See <u>Type Permissions</u> for more information.

#### Suppressing Alarms From Objects

To do this:

- 1. You can suppress alarms by right clicking an object:
  - o on a map
  - o in System Explorer

and selecting **Suppress**. The **Suppression** dialog displays.

- 2. Select and enter the time duration that you want the alarm to be suppressed for. Once you have entered the time, the **Suppression** dialog displays the time that the alarm suppression ends. If you do not specify a time for the alarm suppression to end, then the alarm is suppressed indefinitely or until you manually unsuppress the alarm from the **Suppression** dialog.
- 3. Optionally, enter the reason for suppressing the alarm. For example, engineer testing on site.

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Suppression		
How long to suppress	for (optional)	
Select time span		Ģ
Reason (optional)		
	Suppress	

- 4. Select Suppress. The Alarm Point is suppressed. 家
- 5. You can extend the time for which an alarm is suppressed by right-clicking a suppressed object
  - o on a map
  - o in System Explorer

and selecting **Suppression Options** > **Extend Suppression**. The **Suppression** dialog displays.

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Suppression			□×
	Suppressi	ion ends in	
0	00	59	23
Days	Hours	Minutes	Seconds
s Reason	uppression will end at	: 3/11/2020 12:39:22 PM.	
Engineer on site			
0:00:00			Ð
	Extend Su	uppression	

- 6. Select and enter the duration that you want the alarm suppression to be extended by.
- 7. Select Extend Suppression.

#### Viewing Currently Suppressed Alarms

You can view the alarms that are currently suppressed by using the:

- Suppressed Alarm Point Grid
- Rules Event Viewer

#### Viewing Suppressed Alarms in Event Viewer

The Rule Engine Event Viewer lists all events processed at machine service level. From the Is suppressed column, you can see which alarms are currently suppressed. To open the Rules Engine Event Viewer:

- 1. Go to **System Configuration** > **Computers**. The **Overview** tab displays.
- 2. Double-click your Rules Engine Server. The events for your machine are displayed.



#### Viewing Suppressed Alarm Point Grid

Using the Suppressed Alarm Point grid shows your currently suppressed alarms.

Column	Description
Alarm point	The alarm point, for example, the door or camera whose alarm you wanted to suppress.
Suppressed User	The user that initiated the alarm suppression.
Suppressed Since	The date and time the suppression began.
Suppressed Until	The date and time the suppression ended.
Events	The number of events logged while the alarm was suppressed. <b>Note</b> : Even though an alarm may be suppressed, any events that are triggered during the time the alarm is suppressed are still logged.
Reason	The reason for the alarm suppression, if given.

The Suppressed Alarm Point grid is available in the GUI Toolbox under Alarm Types.

#### **Cancelling Suppression on Alarms From Objects**

You can manually cancel suppression on an alarm from the Suppression dialog or, if you have specified an end time for the alarm suppression, you can allow the alarm to unsuppress automatically by allowing the alarm suppression time you specified to elapse.

To cancel suppression of an alarm manually:

- 1. You can cancel suppression on alarms by right clicking a suppressed object:
  - o on a map
  - in System Explorer

and selecting **Suppression Options** > **Cancel Suppression**. The **Suppression** dialog displays.

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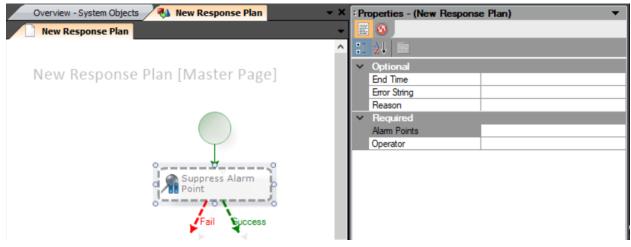
Suppression			⊐ ×
	Suppression	ends in	
0	00	57	35
Days	Hours	Minutes	Seconds
Reason	3/11/2020 12:39	9:22 PM	
Engineer on site			
	Cancel Supp	ression	

2. Select Cancel Suppression. The Alarm Point is unsuppressed.

#### 3

#### Suppressing Alarms Using Response Plans

You can suppress alarms in response plans using Suppress Alarm Point and Unsuppress Alarm Point shapes. Using Suppress Alarm Point shape, enter the time you want your alarm suppressed until. If you do not enter a suppression end time, the alarm is suppressed indefinitely.



See <u>Response Plan Shapes</u> for more information.



## **Batch Processing of Alarm Notifications**

Clients have to orderly and repetitively fetch notifications and other information related to alarms for all the alarms in the alarm stack. This will result in the client reaching out to the server, back and forth several times, doing the exact same process steps increasing the network traffic. This might cause a lot of overhead on the already loaded network. In order to reduce this traffic and increase efficiency of processing the alarms, this release of Control Center has incorporated an option in the Enterprise settings to reduce the network traffic by grouping the notifications to the server every 3 secs. This option is disabled by default. The user needs to enable it, if batching of alarm notification has to take place.

larms	Enterprise Setting	s Configuration	
invironment Variables	Configure Enterprise Settings		
rror Reporting	Enterprise Settings: Relation	prise Settings	
iecurity	Name	Value	8
QL Reporting	Alarm Attachment Maximum	Size (MB)	10.00 ≑
ityling Iideo Wall	Enable Batch Processing Of Al	arm Notification:	
	<ul> <li>Authorization</li> </ul>		
	Authorization for accessing Sy	stem Configurat	30 🗘
	Authorization required for acc	essing System C	
	Enable Configuration Authoriz	ation for Admin	
	Enable Location Based Config	uration Authoriza	
	^ Camera		
	Add Snapshot Information		
	Auto-enable PTZ Behavior		
	Enable Location Quotas		
	Alarm Attachment Size limit per item.	If left blank no limit will be applied.	[mmm]

## Alarm Data Management

Control Center stores data about received events and the alarms that these generate in its database. This data can be automatically cleaned up regularly based on a configurable schedule. The following two options are available:

- **Cleanup Alarms and Events** This deletes alarm and event data that are older than the specified time from the database
- Cleanup Events that are not Alarms This deletes event data that is not linked to any alarm if older than the specified time

Everbridge recommends enabling this feature and setting it to a period appropriate to the customer implementation.

For upgraded solutions, the options to clean up the data are turned off.

**Caution**: For upgraded solutions, this feature is disabled by default. If enabled, alarm and event data is deleted. Check the solution requirements before this feature is enabled.

To configure the Alarm Data Management options:

1. Open the **Global Settings** interface.



2. Click the Alarms tab. The Alarm Types Configuration page appears.

🎲 Global Settings		×
Alarms Environment Variables	Alarm Types Configuration	
Enterprise Settings	Alarm Data Management	_
Error Reporting	Schedule To Run:	
Languages	Cleanup Alarms And Events	
Security	Alarms Retention Period: 6 🔦 Months 💙	
SQL Reporting	Cleanup Events That Are Not Alarms	
Styling	Events Retention Period:	
Video Wall	Retention Period For Trails That Are Not Alarms (In Hours):	
	Retention Period For Trails That Are Resolved Alarms (In Hours): 7	
	, , , , , , , , , , , , , , , , , , ,	
	Alarm Settings	44
	Hide alarm stack tabs that are not currently in schedule	
	Don't allow users to see alarms if they lack read access to the associated alarm point	
	OK Cancel Apply	1
		1

- 3. Specify the following properties:
  - Cleanup Alarms and Events check box If selected, Alarm and Event data is continuously deleted.

**Note**: This option operates against entries in the PacificArchive database instead of the pacific database.

- **Alarm Retention Period** The retention period to keep alarms in months and days.
- **Cleanup Events That Are Not in Alarms** check box When selected, Event data that is not related to alarms is continuously deleted.
- **Events Retention Period** The retention period to keep events in months and days.
- 4. Select the following options (self-explanatory), if required:
  - Hide Alarm Stack tabs that are not currently in the schedule.
  - Do not allow users to see alarms if they lack read access to the associated alarm point.

**Note**: The process of deleting old data can initially take significant time (many hours). This process will run in the background until the new retention requirements are met.

The process of deleting old data is executed in accordance with the Alarm Maintenance schedule. To change the schedule, double-click **Alarm Maintenance** in **System Explorer**.

#### CONTROL CENTER 5.28 REFERENCE GUIDE

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File Edit Tools Wind	low Help			
III (A) 📚 🌭 🖎 🖎	👔 🗈 🏝 🗙 📔 📄 📰 🚳 🕒 Global Settings	👁 Search 🔹 🛄 Tile L	ayout Definitions 🏾 🍞 Device D	rivers
Overview - System Object				
over new - system objec			Search in System Objects	8
abel	<ul> <li>Description</li> </ul>	Туре	<ul> <li>Last Modified</li> </ul>	Extra Ini
Alarm Types				
🗉 🏧 Alarm Types	System object containing all configuration for alarm t	Alarm Types	1/6/2015 6:00:32 PM	
Date/Time Schedule				
_				
🗄 😰 24 x 7 Allow	This default Date Time Schedule permits operation at		1/6/2015 6:00:32 PM	
🗉 😰 Alarm Maintenance	This default Date Time Schedule denotes when the al		9/2/2015 12:35:43 PM	
🗉 한 System Maintenance	This default Date Time Schedule denotes when the s	Date/Time Schedule	1/6/2015 6:00:32 PM	
Display Area				
🗉 💂 Alarm Resolution Form	Display Area objects represent containers that can h	Display Area	1/9/2015 1:39:22 PM	
🛙 🕎 DropZone	Display Area objects represent containers that can h	Display Area	6/15/2015 3:50:46 PM	
🛙 🕎 New Related Alarm	Display Area objects represent containers that can h	Display Area	1/12/2015 2:00:31 PM	
🛛 🕎 Scenario Explorer	Display Area objects represent containers that can h	Display Area	1/8/2015 4:47:59 PM	
🖳 🕎 SecurityTeamComms	Display Area objects represent containers that can h	Display Area	6/15/2015 1:40:37 PM	
🛛 🖳 SLA	Display Area objects represent containers that can h	Display Area	2/9/2015 12:06:23 PM	
🛙 💂 System Alarm Stack	The main lower display area of the system.	Display Area	1/6/2015 6:00:37 PM	
🛙 💂 System Left	The left hand side display area of the system.	Display Area	1/6/2015 6:00:37 PM	
🗉 💂 System Main	The main display area of the system.	Display Area	6/15/2015 3:50:43 PM	
🗉 星 System Main Right	The main right display area of the system.	Display Area	1/6/2015 6:00:37 PM	
<				•



The default schedule is configured to execute between 1-2 am every day.

le		ndow Help			_		
_			⊳ 📄 🔍 Zoom In 🗧	🕹 Zoom Out 🛛 📜 1 H	our		
		cts 🖉 🔗 Alarm Mai	ntenance				
		ezone					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
0: 00	1:00-2:00	1:00-2:00	1:00-2:00	1:00-2:00	1:00-2:00	1:00-2:00	1:00-2:00
: 00	100 200	100 100	100 5100	100 6100	100 2100	1100 2100	100 200
3: 00							
1: 00							
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7:00							
3: 00							
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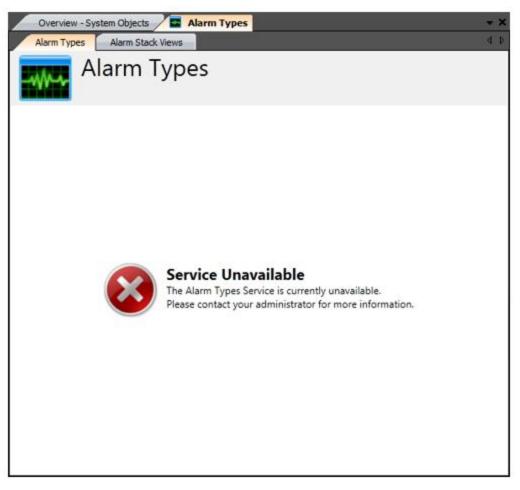
## Troubleshooting

The sections below describe some troubleshooting scenarios.

#### Service Unavailable in Alarm Type Filter

When opening the Alarm Types editor in System Configuration, an error message appears stating that the Alarms Types Service is currently unavailable.

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This usually happens when Alarm Types Windows Service is not running or if the Alarms Types Service URL in Global Settings is incorrect. Ensure that the Control Center Alarm Types Event Service is running.

Services (Local)	-				
Control Center AlarmTypes Service	Name	Description	Status	Startup Type	Log On As
Stop the service Restart the service	ConsentUX_b622f Contact Data_b622f	Allows Con Indexes con		Manual Manual	Local Syste Local Syste
Restart the service	Control Center AlarmTypes Service	Notifies clie	Running	Automatic	cnluk\int_a
Description:	🤹 Control Center Audit Server 🎕 Control Center Connection Mana	Control Cen Control Cen		Automatic Automatic	cnluk\int_a cnluk\int_a

#### Caching Large Number of Open Alarms

If a customer has a requirement to keep large numbers of unresolved alarms (more than 10,000), you can increase the alarm cache by editing the following configuration file found in the **Alarm Types Service** application directory:

Everbridge.ControlCenter.AlarmTypes.WindowsService.exe.config

Change the value of the following key as required:

```
<add key="ReadAlarmsCacheSize" value="1000"/>
```

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## **Response Plan Shapes**

You can use shapes in response plans to design the logic to affect in Control Center. For example, the data shapes allow for a response plan to interact with a database via a data connection, the alarm type shapes allow you to interact with your alarm management functionality, such as process guidance and alarm resolution and geographical shapes allow you to interact with assets in a geographic map.

## **Basic Shapes**

#### Evaluate

The Evaluate shape provides a True and False route where the chosen path is determined by the specified code. The code to evaluate is added using the script shape editor. The script must therefore result in either a true or false outcome.

For example, to check if a whole number variable is greater than 10, you can add the following script:

```
"My.PageVariables.varWholeNum > 10"
```

If that statement is true, then the true route will apply otherwise the false route will apply.



#### Finish

The Finish shape denotes the end of the response plan. The response plan will cease execution at this point and return control of execution to the point at which the response plan was called, typically, from a Link shape.

The success state of the Finish shape can be determined which will indicate if the response plan completed successfully or not. This can then be used in the calling logic to take appropriate action; for example, show a message to the user if the response plan failed in some way.

The success state of the Finish shape is denoted by a tick or a cross. The default is a tick which denotes success.





#### Label

The Label shape provides for annotation of a response plan. It cannot be connected into any other logic and is not executed. Typically, this would be used to further describe the purpose and configuration of a response plan.

Label	

#### Schedule

The Schedule shape provides two paths of execution which are determined based on the status of a specified date time schedule: this date time schedule identifies active and inactive times of day.

Typically, this is used to determine if the response plan is being executed inside or outside of working hours.



#### Script

The Script shape can be used to perform multi-lined complex calculations using a combination of Response Plan variables and static data. Typically, this is used to set GUI control values or for functions such as getting the current date and time.

The Script shape editor provides IntelliSense to assist with writing the script. The editor also provides full validation of script to identify any errors or warnings.



#### Select

The Select shape provides multiple routes where the route taken at execution is determined by the value of a response plan variable. An editor at design time provides multiple routes to be specified, typically using static values.





For example, a Select shape could be used against a text variable which could contain one of several different values at run-time. The Select shape would therefore be configured with all possible options.



#### Start

The Start shape denotes the beginning of a response plan. It is present on all response plans and event pages, and can only exist once per page. This shape is added automatically and therefore does not exist in the shapes palette.

Special rules have been included in the designer to prevent the shape from being deleted and preventing routes from any other shape from entering.



#### Wait

The Wait shape provides the ability to pause the execution of the response plan for a specified number of seconds. This is typically used to slow the execution of the response plan to allow for other processes or actions to be performed before continuing.

The wait interval is set at design time using a whole number or may be specified using a whole number variable allowing for a dynamic value to be specified at run-time.



#### **Dynamic Action**

The Dynamic Action shape executes methods, functions and property changes on both system objects and response plan variables. The values set against the specified targets can also be specified using variables.

A typical use of this shape would be to show a message box to a client where the target client is specified using a variable and the message to show to the client is also specified using a variable. Other typical applications of the shape include running methods on devices, such as opening a door on an access control device or sending an SMS message using a GSM modem.



The shape provides an easy to use wizard to specify the target objects and the actions to run.



## Alarm Type Shapes

Alarm Types support several Response Plan shapes that can be used to link commissioned functionality with the Alarm Types feature so that product and toolkit logic interact seamlessly. For example, Process Guidance GUIs, the resolution form and so on. The following Alarm Type Shapes are available in the Response Plan Shapes palette:

#### Add Threat

The Add Threat shape allows for manual threats to be added into the stack for consideration in the system threat level. The manual threat specified can range from 1 through to 5. A key must also be specified which is then used to subsequently remove the threat.

The threat specified will be the minimum value for the system threat level. The system threat will be based on any other manual threats (with differing keys) and any alarms which specify a threat level.

Manually logged threats can be viewed using the Threat Level Grid GUI control.



#### **Create Alarm**

The Create Alarm shape is used to create manual alarm types via a response plan. The Create Alarm shape allows for the selection of any alarm types marked as 'manual alarm'. A device and location can also be specified to capture alarm related information.



#### **Enable Alarm Stack View**

The Enable Alarm Stack View shape will set the availability of the selected view. When disabled, the alarm stack view will not be available to any viewers of the view. The Alarms Stack tab will still show; however, a message will be shown to the user in place of the alarms. However, when the view is enabled, the alarms will start showing back to the user.

Note that the view also includes a schedule property, which can be set to periodically enable and disable a view. This shape, therefore, can be used to provide an override mechanism to compliment the schedule option of a view.





#### **Get Threat Level**

The Get Threat Level shape provides a mechanism to retrieve the current threat level in a response plan. The shape will populate a whole number variable.



#### Log Activity

The Log Activity shape adds custom activity to an active alarm together with text comments for a particular user. Most activities are logged automatically by alarm types, such as alarm created, handled or resolved. Custom activities can be logged against any alarm, this is typically used to audit operator activities during the alarm handling process, for example process guidance step complete, which cannot be logged automatically.



#### **Modify Alarm**

The Modify Alarm shape updates the column values for a specific alarm based on the Alarm ID property. The values to update are specified using the Property Mappings property. Alarm types maintain the alarm automatically in most cases; however manual updates might be necessary. For example, running a response plan after an alarm has been created to populate some of the custom columns with data after using data shapes to extract this from a HR database.



#### Park Alarm

Parks an unresolved handled alarm and marks the alarm as Parked by ... in the alarm stack. This can be incorporated into the alarm handling logic to enable the user to park an alarm for handling by another user or at another time.





#### **Read Alarm**

When an alarm ID is provided, this shape reads properties associated with an alarm into response plan variables. This shape is useful in determining additional information of an alarm, when you only have the alarm ID.



#### **Read Event Property**

All events are logged in the Pacific database and then evaluated against Alarm Types. Some of the event data may be required during the alarm handling process. Instead of including logic in a solution to hold any required event data in the Alarm Stack (Card ID or Analytic Zone), you can extract this data in a VRP (Response Plan) using the Read Event Property shape. This shape iterates through all events for an alarm similar to a Data Select shape. You can also specify the order in which to iterate through the events for an alarm to find a specific event. In addition, you must specify a device type and event type so that the shape knows which events to pull from the alarm as an alarm could include different types of events. This helps to pull out the panel reset event for an alarm which contains many fire alarm events.



#### **Remove Threat**

The Remove Threat shape will remove a manual threat from the system threat level stack with a key for which a threat exists.



#### **Resolve Alarm**

This shape resolves an active alarm based on any of the available resolution types. The status of the alarm must be handled, and the operator specified must match with the operator currently handling the alarm.



This would typically be used in conjunction with the Resolution Types combo box which would provide the operator the ability to select an appropriate resolution type from a drop-down list.



#### **Suppress Alarm Point**

Use this shape to suppress one or more alarm points. Suppressed alarm points do not participate in alarm categorization, however events are logged regardless and can be displayed using the Suppressed Event grid. Suppressed alarm points can be shown in the user interface using the Suppressed Alarm Point grid.



#### **Unsuppress Alarm Point**

Use this shape to unsuppress one or more alarm points. Unsuppressed alarm points can now participate in alarm categorization.



## **Data Shapes**

The data shapes allow for a response plan to interact with a database via a data connection. A data connection is an object in Control Center which details the database instance, database name and any connection credentials. The data connection will then replicate the schema which can then be used within response plan shapes.

All data shapes include a fail route and an Error Text property. The fail route will be taken if the shape is unable to perform the request command. If the fail route is taken, then the Error Text property can be used to populate a text variable for reporting and debugging purposes.

#### Data Delete

The Data Delete shape will delete all records in a specified table based on the WHERE Clause property. If no WHERE Clause is specified, then all records in the table will be deleted.





#### Data Exec

The Data Exec shape can be used to run any stored procedure via a Data Connection. It supports passing parameters in and out of the stored procedure using response plan variables. It can also return the number of rows that have been affected by the stored procedure.



#### Data Insert

The Data Insert shape will insert a record into a specified table in a database. The shape includes a column mappings property which is used to specify the values for each column. The values can be either statically defined or specified using variables.



#### **Data Modifier**

The Data Modifier shape runs complex SQL scripts against a database via a data connection. This can be useful when wanting to execute a script which is not easily managed by some of the other data shapes which break down the common activities into easy to understand shapes.



#### Data Select

The Data Select shape retrieves data from an external data source using a data connection. This shape will iterate through each record returned every time the shape is executed. The first pass of the shape will select the data from the table, for example 4 records are returned, and will take the Next route. Each subsequent execution of the shape will move to the next record and again take the Next route. If no records are available or every record has already been iterated, then the End route will be taken.

The shape provides a column mappings property to map columns in the table to variables in the response plan, which is used to extract data from each record in the data set.



The shape also includes a WHERE Clause property which can be used to filter the records returned from the database. The script editor is used to specify the WHERE Clause to provide prompts as to the available columns and variables.



#### Data Update

The Data Update shape will update records in a specified table based on the column mappings specified for the shape. A WHERE Clause property is available to determine which records in the table are updated otherwise all records will be updated by default.



## **Device Shapes**

#### **Display Tile Layout on Video Wall Device**

The Display Tile Layout on Video Wall Device shape enables tile layouts to be shown when they are on a Video wall instead of the Client.



#### **Get Connected Devices**

The Get Connected Devices shape enables you to determine the list of connected devices for a specified device. For example, you can determine the Parent Object of the camera or any other object the device belongs to.





### **Get Idle Preset**

The Get Idle Preset shape will accept a camera and return the specified idle preset based on the visible object mapping feature in Control Center, where active and idle presets can be specified for each mapping.



#### **Get Preset**

Similar to the Get Idle Preset shape, the Get Preset shape will return a preset position based on a specified camera and a specified viewed object. Typically, this shape is used along with the Get Visible Objects shape by populating a list with the visible objects, iterating through the list, and using the Get Preset shape to retrieve the preset for the pair of devices.



#### Set Tile Contents on Video Wall Device

Use the Set Tile Contents on Video Wall Device shape to display tile layouts and custom layouts on a video wall device.



#### **SNMP** Device Trap

Use the SNMP Device Trap shape to broadcast an SNMP message sent to a device, message string, timestamp, and event type. Use the SNMP Device Trap shape to compliment the online state messages which are broadcasted by the connection manager service.



Note: This shape is not available in GUI event pages.



## **Evidence Bank Shapes**

The evidence bank shapes provide functionality to support creating evidential packs on a network drive which contain exported video and reports.

#### **Export Media**

Use the Export Media shape to export a media object from the system to a local or network drive. This could for example be used to save a generated PDF report to a network drive as a backup measure.



#### Submit Video Export Job

The Submit Video Export Job shape creates a new job in the video export service based on a specified set of cameras, folders, or locations. The export destination, footage start time and footage end time must be specified.

Once executed, the shape registers the new job with the video export service and return details of the job back into the response plan using different properties which can be set against variables. These include the estimated job size, export duration, completion time and a unique identifier which can be stored for reference and later used for reporting purposes.

Optionally, you can configure Email addresses, subject and message, if you want to email your video export. For example, if the video needs to be made available for forensic review.



## **Geographical Shapes**

#### **Get Assets Within Radius**

The Get Assets Within Radius shape will search for different types of objects in the system based on a specified latitude, longitude and scene. The shape will populate a list variable with the returned objects which can be determined using the Types to Include property.

The shape includes additional properties to further contain the search. These include the maximum search distance, the maximum search distance unit (default kilometers), and the maximum number of results to return (default 10).





#### **Get Object Position**

The Get Object Position returns the geographical position of a specified object. The shape also requires a geographical scene to be specified to determine the object position. The position is returned as latitude and longitude which can be stored in variables of type decimal number.

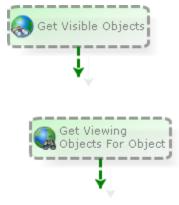


#### Get Viewing Objects for Object

Much like the Get Visible Objects shape, the Get Viewing Objects for object shape will populate a list variable with objects, except that this shape could also include a PTZ variable with objects visible to a device specified as configured using the visible object mapping feature in Control Center. Additionally, you can specify the types of objects to return and a PTZ Preset value.

#### **Get Visible Objects**

The Get Visible Objects shape will populate a list variable with objects visible to a specified object as configured using the visible object mapping feature in Control Center. Additionally, the types of objects to return must also be specified.



## Link Shapes

Use list shapes to manage list variables in a response plan. For example, when configuring logic in the solution to send a message to several clients, a client list variable must be created, then populated with the Add to List shape and then iterated through using the Iterate Collection shape. This can be useful to quickly retrieve contents for a folder or location.

Other response plan shapes also support list variables directly. For example, the Generate Tile Shape will accept a device list variable and then generate a tile layout based on the contents of the list.



List variables can be either basic or referenced. A basic list will simply contain multiple values of the same type. However, each item in a referenced list will be keyed by a unique value. An example of a referenced list would be a list of response plans each referenced by a number or a list of clients each referenced by some unique text/key.

#### Add to List

The Add to List shape will populate a list variable with either statically defined objects, variables or from a folder or location. A typical use of this shape would be to populate a device list variable from a location or to populate a client list variable from a folder.

The shape also includes an option to iterate child folders so that objects from a certain folder downwards will be included in the list.

When searching for objects in a folder, the shape will only populate the list with objects matching the type of the list variable specified.



#### **Clear Collection**

The Clear Collection shape will simply clear the contents for a specified list variable.



#### **Dynamic Link**

The Dynamic Link shape allows for the execution of a response plan where the target response plan is not known at design time but is specified using a response plan variable. The variable is then populated at run-time and executed using this shape. VRP inheritance is used to allow for data to be passed into the target response plan and specified at design time. A parent response plan must be created and specified to provide the response plan mappings on the shape.

This shape is typically used when multiple response plans with the same set of variables are required. The response plan to execute would then typically be held in a database and accessed via a data connection and the data select shape.



#### Go Sub

The Go Sub shape executes a sub-page within a response plan. Sub-pages can be used when logic is required in multiple places within the response plan and therefore reduces any duplication of logic.





#### **Iterate Collection**

The Iterate Collection shape will loop through the contents of a list variable taking the Next route for each item in the list. The value of the current item in the list can be referenced using a response plan variable.

An example of this shape would be to iterate through a list of clients. Each pass of the shape would result in the current value property populating a specified variable. The updated variable can then be used in other logic such as a Dynamic Action shape to show a message box to each client.



#### Link

The Link shape allows for a response plan to be executed from within another response plan. The Link shape requires the response plan to execute and then allows for variables within the target response plan to be executed.

This is typically used to create individual, reusable response plans which can be called throughout the system.

For example, a response plan, which may contain several shapes, could be created to send an email. This response plan can then be called from anywhere else in the system by using a single shape and then passing the necessary values to any variables, such as message or recipients.



#### **Remove from List**

Use the Remove from List shape to remove a specific item from a list variable. This can be useful when wanting to filter an existing list variable to remove certain items before using the list elsewhere in the solution.

For example, you can use it to remove test cameras from a list that displays all cameras.





## **Multi Processing Shapes**

#### Join

Use the Join shape after a split shape to continue execution once all paths into this shape have competed. The shape will wait for all incoming paths to complete before continuing.



#### **Obtain Lock**

The Obtain Lock shape is used to create a lock in the system based on a specified lock name. This can be used when logic must be executed sequentially and not in parallel to avoid race conditions. The use of a specified lock name means that the response plan can run multiple times in parallel however no two instances of the same lock name will ever run at the same time.

A timeout property is provided to determine the maximum duration to wait to obtain a lock. The timeout route will be taken if the shape is unable to obtain the lock in the specified duration due to an existing lock for the specified lock name.

The Release Lock shape must then be used after the required logic to release the lock for the next pass.



#### **Release Lock**

The Release Lock shape will remove any active lock based on a specified lock name so that subsequent executions of the logic using the same lock name can execute.



#### Split

The Split Shape provides multiple paths of execution for running logic in parallel. Several Splits properties are available to determine the number of routes out of the shape. Use a Join shape to collect all the different routes back into a single path of execution.





## System Shapes

The system shapes contain various shapes used to interact with system objects. This includes assigning, moving and deleting objects, managing user/group membership, and various forms of searching for objects.

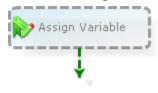
#### Add Member to Group

The Add Member to Group shape can be used to add a user/group into a group or add a contact/contact group into a contact group.



#### Assign Variable

The Assign Variable shape will assign the value of a specified variable to reference an object in the system. Typically, this shape would be used prior to executing other shapes which utilize the variable; for example, the shape could be used to assign a device variable to a camera in the solution before showing the camera to a user.



#### Audit Log

Use the Audit Log shape to insert an entry into the Windows event log. This shape allows for the message and event ID to be specified using either static values or variables. This can be useful for collecting system diagnostics in the background to help report on usage, warning, exceptions, etc.



#### **Authenticate Client**

The Authenticate Client shape forces the specified client to re-authenticate. This can be useful when wanting to verify that the currently logged in user is permitted to perform a mission critical action. This helps to avoid such issues as an unauthorized operator using a workstation that has been left logged in and unattended.





#### **Copy Object**

The Copy Object shape duplicates an object referenced by a response plan variable.



#### **Copy Variable**

The Copy Variable shape is used to copy the value of one variable into another. The shape has two required properties: a source variable to copy from and a target variable to copy into. If the shape can populate the value of the target with the value of the source variable then the success route will be taken, otherwise the fail route will be taken indicating a mismatch.



#### **Delete Object**

The Delete shape will delete an object in the system based on the value of a response plan variable. Deletion will fail if the object is referenced by another object.



#### **Generate External Report**

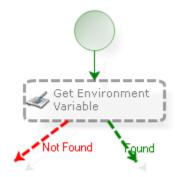
The Generate External Report shape can be used to generate a report based on an external report service such as SQL Server Reporting Services. The shape allows for the selection of the report template, format, label and folder. Parameters in the report can also be specified from variables in the response plan.





#### **Get Environment Variable**

The Get Environment Variable shape can be used to populate information related to Control Center in response plans as variables. It returns the required value into a String variable. The shape can also interpret the name of the Environment Variable as case sensitive or case insensitive.



For Federated Sites, the environment variables can only be accessed on a local site. When a Response Plan is being published to a remote site, both sites must be running a version of software that includes the new shape otherwise the Publish operation will fail.

#### **Get Group Members**

The Get Group Members shape can be used to populate a list variable with members of a specified group. The type of the list variable will determine which members of the group will be retrieved. For example, a user group can include members of type user and user group. Therefore, specifying a user list variable will extract all users from the group. A second shape must then be used to extract any groups that are members.

An Iterate Collection shape must then be used to extract each value in the list.



#### Get Groups for Member

The Get Groups for Member shape will return a list of groups or contact groups based on a specified member. The specified member could be a user, contact, group or contact group.





#### **Get Location**

The Get Location shape is used to find a location for a specified object, for example a camera. The shape will search through the system for all locations and populate a location variable based on the specified object. The type of location can also be specified which can be useful when iterating up through a tree of locations where a specific level must be returned, for example return the 'building' location rather than the room or the floor.



#### Get Object for Shortcut

The Get Object for Shortcut shape can be used to get an object in the system based on a specified shortcut. This can be useful to determine the parent object when only the shortcut is available in the response plan.



#### **Get Placeholder**

The Get Placeholder shape searches through the system for a placeholder with the parent device and the device data. The shape will then populate a placeholder variable if one is found. The shape can also be configured to automatically create a placeholder if one is not found based on the specified search criteria. This option can then be used to configure a solution to automatically grow and maintain itself over time. Care must be taken to not exceed the allocated license count for placeholders.



#### **Get Shortcuts**

The Get Shortcuts shape will return a list of shortcuts for a specified object. The list of shortcuts can then be expanded using the iterate collection shape.



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#### Import Media

The Import Media shape will import a media file from the local drive into the system. For example, you can use this shape to import PDF files or image files which can be used elsewhere in the solution.



#### Log to Audit Database

**Note**: You must have configured your Auditing Server in Control Center before you can use the **Log to Audit Database** shape. See <u>About Auditing in Control Center</u>.

Using a Log to Audit Database shape in your response plan allows you to audit interaction with any of your response plans, including reacting to an event from a driver and auditing any important information. For example, you may want to see which user paused a video, resolved an alarm and deleted a user from the Users group on your system at a specific time.

Name	Required?	Description
Event Type	Y	The event type you want to audit. For example, a camera. The event type can be a static value or a variable.
Object 1	Y	Any Control Center object. For example, a Sequence
User	Υ	The user who performed the interaction.
Operation	Y	The operation that has been performed. For example, pause, step forward or step back.
Client	N	The Control Center Client where the action has taken place.
Object 2	N	Allows you to specify another Control Center object.
Extra Information	N	Any extra text you want to provide for information.

The Log to Audit Database shape has the following properties:



The audit data are written to the Audit database schema. See About Auditing in Control Center.

#### **Move Object**

The Move Object shape can be used to move an object into a specified folder. This can be useful when configuring the solution to dynamically maintain its configuration. For example, this shape can be used to move automatically created placeholders into different locations.

Move Object	
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#### **Remove Member from Group**

The Remove Member from Group shape can be used to remove a member from a group or contact group.



#### Search

The Search shape will populate a target variable (regular or list) with objects in the system based on specified search criteria. The type of object to search for will be based on the type of the target variable. In addition to the target variable to populate with the results, the shape also requires a search value by which to search, an operator, and the property to search.

The operator provides a multiple choice of different operators which includes (not exhaustive) 'equals', 'less than', 'greater than', 'starts with', 'contains', etc.

The property to search will be based on the target variable. The available properties to select from will be determined by the type of the target variable. For example, specifying a location variable as the target variable will result in the property to search including items such as 'label', 'address 1', 'address 2', 'location ID', etc.

If multiple results are returned by the search and a list variable has not been specified as the target, then the first item in the set of results will be used to populate the target variable.



#### User in Group

The User in Group shape is used to check if a user/contact is a member of a specified group/contact group. This shape can be useful when validating user membership within a response plan.





## **User Interface Shapes**

The user interface shapes in a response plan allow for the logic to affect the user interface, typically of the current client. Most shapes utilize tile layout variables to contain the user interface contents which are then shown to the user.

#### **Clear Tile Contents**

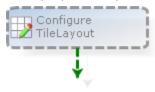
The Clear Tile Layout shape will clear the contents of a specified tile of a tile layout variable. The tile layout must then be displayed to the client to apply the changes.



#### **Configure Tile Layout**

The Configure Tile shape allows for individual tiles of a tile layout variable to be populated with GUIs or devices. An editor is provided to specify which content should be placed into which tiles.

A Display Tile Layout shape must then be used to show the tile layout variable to the user.

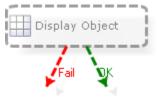


#### **Display Object**

The Display Object shape can be used to display one or more cameras or GUIs to the user. Unlike the Display Tile Layout shape which requires a Tile Layout variable, this shape can directly show a GUIs or cameras and dynamically create a containing tile layout when displayed.

This shape should be the primary option for displaying content to end users.

The one limitation with this shape is that it cannot update the contents of a currently displayed GUI, for example changing the current location on a Google Earth GUI. In this instance, the Configure Tile Layout and Display Tile Layout shapes should be used where the Update property on the Display Tile Layout shape can be used to persist and update any currently shown content.





#### **Display Tile Layout**

The Display Tile Layout shape displays a tile layout variable to one or more specified clients or users. The tile layout variable must be populated prior to this shape using some of the other user interface shapes. Alternatively, no changes can be made to the variable in which case the default contents of the specified tile layout will be shown.

The shape requires a tile layout variable to be specified, as well as a target display area and one or more target users/clients.



#### **Generate Tile**

The Generate Tile Layout shape can be used to build up a tile layout variable based on one or more GUIs, devices or sequences. The layout used will be dynamically determined based on the number of items specified. For example, specifying a list of 4 cameras will result in a 2x2 layout being used.



#### **Get Tile Contents**

The Get Tile Contents shape populates the value of a specified variable with the contents of a specified tile. This is useful for extracting the contents of a tile layout into a variable for further analysis however the Get Tile Contents from Client shape is more useful as this can retrieve the contents directly from the client rather than from the tile layout variable which may not reflect that shown on the client.



#### Get Tile Contents from Client

The Get Tile Contents from Client shape can be used to populate the value of a response plan variable (GUI, device or sequence) with the contents of a specified tile from a specified client. This could be used for example to send the contents of the local spot monitor to the video wall when clicking a button on the main menu.





#### **Remove Tile**

The Remove Tile shape removes a tile layout from a specified group of users, clients and display areas. However, the Close UI shape is more effective as this only has one property.



#### **Set Tile Contents**

The Set Tile Contents shape sets the content of a specified tile to the value of a specified variable. This is similar to the Configure Tile Layout shape; however, a whole number variable can be used for the target tile.



#### **Swap Tiles**

The Swap Tile shape will swap two specified tiles within a layout. This can be useful when needing to move a smaller tile into a larger tile for improved viewing.



#### **Tile Action**

Use the Tile Action shape to perform an action against a specified tile in a tile layout. For example, the shape can be used to automatically take a snapshot, switch to playback, move to a preset, and so on.

To use the shape, you must specify the target client, tile layout, and tile number to perform the action. Where applicable, the shape also supports parameters to be specified when executing the command, for example the preset position to move to.



## **Graphical User Interfaces**

The Graphical User Interface (GUI) object provides a platform to design and manipulate GUIs. The GUI Designer allows you to select from a list of GUI controls and place them on the design surface in the order you like.

You can also create triggers from events that may occur within the GUI, for example, when the user clicks a button. Event Pages can be defined to specify when to react to events, such as running actions, initiating Response Plans, and so on.

In addition, you can also control GUIs from a Response Plan to create advanced dynamic interfaces that react and change depending on the status of the system.

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The GUI Editor has the following controls:

- Toolbox Contains a palette of user interface controls. You create a GUI by dragging and dropping controls from the Toolbox to the Design Surface. The controls are grouped together into blocks based on their usage. For example, Windows Controls and Cluster Controls.
- GUI Designer drop-downs The following drop-down lists are available in the GUI Designer:
- First drop-down Lists all user interface controls placed on the GUI. Choosing a control from this list selects that control on the Design Surface.
- Second drop-down Lists the events that can be raised by the currently selected control. Selecting an event enables you to specify how to react to that event by defining or selecting an Event Page to run behind the GUI.
- Properties grid Displays the associated properties of the User Interface control that can be configured. There is a group of common properties to aid in design layout and arrangement.

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- Design Surface The main area of the GUI Designer. It is where you create a Graphical User Interface by placing the user interface controls from the Toolbox on the left to render visual elements on a GUI.
- Event Pages Provides a mechanism for reacting to GUI control events. This is where you see the events raised by GUI and react to events generated from controls on your GUI. The GUI Designer has a built-in Event Page editor to provide a mechanism for reacting to GUI control events via Event Pages. When the Event Pages tab behind the Design Surface is selected, the built-in Event Page Editor opens.

## Creating a Simple New GUI

To create a new GUI for generating a Credential Swiped report.

To create a new GUI:

- Right-click anywhere within the **Reporting** folder and select **New** > **Graphical User** Interface.
- 2. Rename it to **Credential Swipe Report**.
- 3. Right-click the GUI and select **Generate Tile Layout**. This will create a one-way tile layout with the GUI stored in the first tile. To display a GUI, you must use a tile layout. Tile layouts specify the number and layout of the individual tiles shown within the designated display area. For example, a 1-way tile layout would fill the entire display area with the GUI being displayed, whereas a 4-way tile layout will display a grid with four tiles that can be laid out in multiple ways. For more information, see <u>Tile Layouts</u>.

Similar to the Report Designer, controls can be added to the Design surface by dragging them from the toolbox on the left panel.

To add a GUI control:

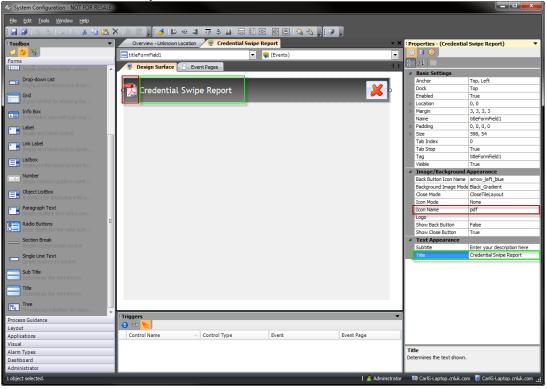
- 1. Drag the **Title** control and drop it to the design surface.
- 2. Set the **Dock** property to the top position.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



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- 3. In **Properties**, rename the title to **Credential Swipe Report**.
- 4. Set the icon name to **pdf**.



5. From **Toolbox** > **Applications**, drag the **Internet Browser** control.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



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6. Open Internet Explorer and copy the Credential Swipe Report URL into the clipboard.

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- 7. Go back to the GUI designer in System Configuration and select the Internet Explorer control.
- 8. Set the following properties:
  - **Default Location** path copied from Internet Explorer
  - $\circ \quad \textbf{Dock} Fill \\$
  - Dialogs Suppressed False



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**Note**: The GUI will show all controls available in the Report Manager. To restrict the controls available to the end user, the report can be loaded with fewer controls. Use the following URL in the Default Location property while making sure that the report name is correct.

http://localhost/ReportServer/Pages/ReportViewer.aspx?/CredentialSwipe&rs:Command=Render

Where localhost is your machine name.

- 9. Save and close the GUI designer.
- 10.Locate the tile layout that was created at the beginning of the exercise and right-click it to select **Display Tile Layout > Right**.

### **Chromium Web Browser Plug-in**

GUI framework can be used to display the plugin controls and manage it very effectively.

The Control Center is equipped with a Chromium Web Browser plug-in component that adds a specific feature to the application which integrates web-based framework within Control Center for viewing web pages or web reporting from a reporting server. This also extends its support for JavaScript and other technologies to be used within the browser and facilitates customization by the user as well by providing control to add button/buttons and assign it to perform a task on the web page. For example: Back, Next, Stop, and Go.

Apart from browsing the web pages, this feature can also be used to view web reporting by specifying the URL address to the reporting server. By establishing connection to the server, you will be able to view real time reporting or historic reports stored on the server.



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## **Button List Plug-in**

The Button List Plug-in is an add on feature of Control Center 5.9 which allows the user to create a Graphical User Interface and dynamically add the custom button/buttons which when clicked are defined to perform a certain task scripted in the response plan. The buttons can be actioned to view a camera feed from a location or open a gate or pop-up a message upon clicking.

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This plug-in control comes with two functions :

- Add Button
- Add Button with Colors



**Add button**, by default will have a grey background and black font color. If you wish to have a colored button that represents the state of a device, it can be achieved by customizing the background color, font color, type and size in the response plan. The button size can also be defined in the properties of the GUI object.



## Dashboards

Control Center Dashboards allow you to take your data and use it to create rich, interactive dashboards, that can be shared with other users in Control Center. This allows you to quickly and easily identify trends, patterns and relationships in your data like the events that are impacting your organization that may require deeper analysis. Key performance indicators can be displayed, allowing you to view information about each alarm, event or alert, for example.

Control Center dashboards use widgets. Widgets are essentially types of reports, for example, charts, lists, grids, and so on. You can add any combination of widgets that you want.

Dashboards can be configured in a tile layout to be displayed in a display area or window. See <u>Displaying Dashboards</u>. You can configure which users have access to individual dashboards.

Using Control Center dashboards, you can:

- Use the out of the box System dashboard that Control Center provides.
- Create your own dashboards
- Add and configure dashboard widgets
- Configure your clients to display your dashboards. For example, you may want a dashboard to display on all clients or specific clients.

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For example, you may want a dashboard that shows key metrics from across your

## **Configuring Access to Dashboards**

You can configure who can create dashboards using the **Dashboard** type permission. See <u>Type</u> <u>Permissions</u>.

You can configure which users have access to individual dashboards using object permissions. See <u>Object Type Permissions</u>.



## **Configuring Dashboards**

Control Center dashboards use widgets. Widgets are essentially types of reports, for example, charts, lists, grids, and so on. You can add any combination of widgets that you want. Each widget must have a data source which defines where the data you want to display in the widget comes from.

When configuring a dashboard, you need to think about the type of data you want to display as this will help you to select the right type of widget for your data. For example, you may want a dashboard that has:

- A donut widget displaying devices by state.
- A list widget that is displaying information from an RSS feed.
- A chart widget displaying all your alarms by type.
- A grid widget displaying all your top 10 alarms by site.

#### Configuring Colors in Dashboards

By default, a color palette is available for dashboards. This means that when you configure your widgets, they automatically display in the colors that are available.

If you want to use custom colors, you can do this by adding colors as part of your SELECT statement when creating a SQL Query data source. You can:

- add the colors directly in the SELECT statement, for example, When 1.Label='Sub location 1' then '#FF8B44'
- configure a color property for your Control Center object so that when the object is included in a SELECT statement, the color that you have configured for that object displays in the widget. See <u>Object Designer</u>.

Colors can be:

- Web color format, for example, white.
- RGB, for example, **#FF8B44**.
- RGBA, for example, **#FF8B44FF**.

#### Adding Dashboards

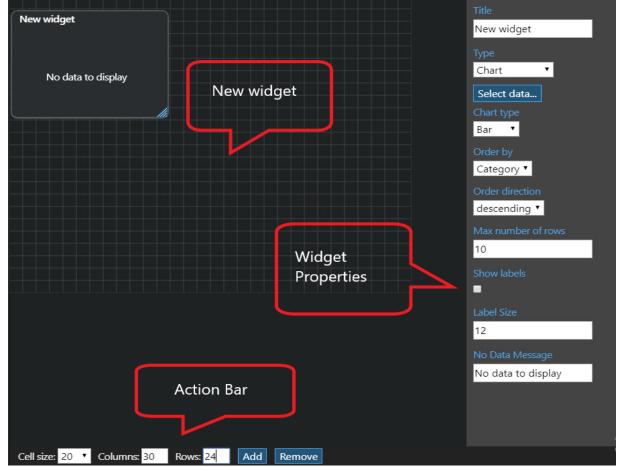
You can create as many dashboards as you like in Control Center. To do this:

- Create a new dashboard in System Configuration.
- Add your widgets to your dashboard.
- Configure your widgets.
  - Select your widget type. When thinking about the widget type you want to use, think about the type of data you want to display.
  - Configure the widget's data source.
  - Configure any properties specific to the widget type.
- Configure how you want your dashboards to display.



To create a new dashboard:

- 1. From **System Configuration**, select or create a folder where you want to add your dashboard.
- 2. Right-click and select **New > Dashboard**. A **Dashboard** object appears in the folder.
- 3. Rename your dashboard.
- 4. Double-click the newly created dashboard. The dashboard opens in Dashboard Designer.
- 5. You can use the dashboard configuration options, to increase or decrease cell size, and the number of columns or rows in the Dashboard Designer.
- 6. From the bottom of the page, select Add. The options to configure the widget appear:



- 7. Everbridge recommends that you configure your design grid to match, as much as possible, the display area or window where you are going to display the dashboard. This makes it easier when sizing and positioning your widgets within in the dashboard.
- 8. Specify the **Title** for the widget, for example, Online Devices. The new title appears on the dashboard.
- 9. From the **Type** drop-down list, select one of the following:

Type Description

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Chart	Displays chart types on the dashboard, for example, bar, pie or donut charts. For example, if you are using an <b>Object States</b> or <b>Alarms</b> data source, where you want to show categories of alarms by type, or devices by state, a chart widget is the best way to display this. See <u>Configuring Chart Widgets</u> .
Grid	Displays the selected data in a tabular format. A Grid widget is highly configurable, allowing you greater control over how and what data is displayed. See <u>Configuring</u> <u>Grid Widgets</u> .
List	Displays the selected data in a list. This widget type is best when using an <b>RSS</b> Feed or similarly serial data source. See <u>Configuring List Widgets</u> .
Machine Data	Displays machine data, for example, memory and disk consumption. See <u>Configuring</u> <u>Machine Data Widgets</u> .
Number	Displays a total for the data source you select. For example, you may want to know the total number of devices whose state is <b>Offline</b> . See <u>Configuring Number Widgets</u> .

## Using System Dashboard

Out of the box, Control Center provides a dashboard that provides performance information. The **System** dashboard displays the following widgets:

- Core Server statistics, for example, memory being used, disk reads and disk writes.
- Device States by Device Type
- Device States
- Alarms by Alarm Type
- Alarms by state

You can modify the widgets or add new widgets to this dashboard.

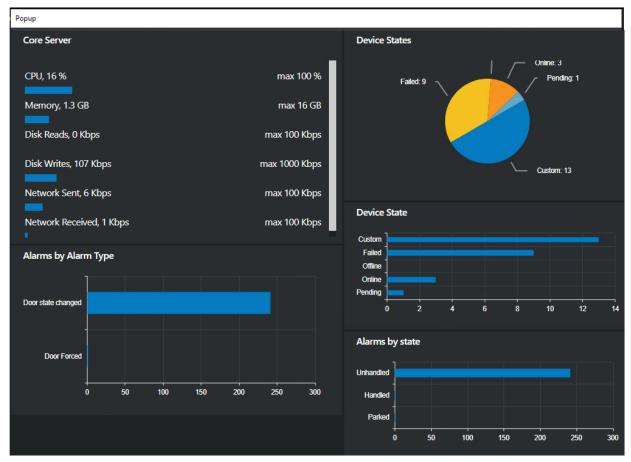
- 1. From System Configuration, navigate to the System Objects folder.
- 2. From **Dashboard**, double-click **System Dashboard** to open it in the Dashboard Designer.

Overview - System Object	5
Label	^ Description
Alarm Types	
🗄 🤗 Alarm Types	System object containing configuration for alarm typ
Dashboard	
🗄 🧰 System Dashboard	Default dashboard used by clients with no override in

3. To display the System Dashboard in a display window or area, see <u>Displaying Dashboards</u>.

### CONTROL CENTER 5.28 REFERENCE GUIDE

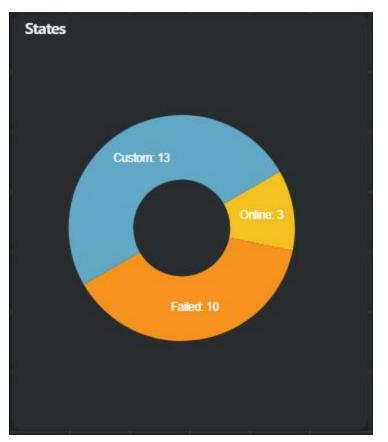




# **Configuring Chart Widgets**

Using chart widgets you can display your data as a bar, pie or donut chart, depending on your requirements. Chart widgets are useful for displaying data when you want to compare, for example, the frequency or number for different types of alarm or object state.

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A chart widget is more commonly used with SQL Query, Alarms or Object States data sources.

Once you select **Chart** from the **Type** drop-down list, the properties that you can configure for a chart widget display.

- 1. From **Chart Type**, select one of the following from the drop-down list:
  - **Bar** display data in a bar chart.
  - **Pie** display data in a pie chart.
  - **Donut** display data in a donut.
- 2. Click Select data...
- 3. Select an existing data source or create a new data source. See <u>Creating Dashboard Data</u> <u>Sources</u>.
- 4. You can configure some or all of the following properties, depending on your requirements.

Property	Description
Order by	<ul> <li>Select one of the following from the drop-down list:</li> <li>Category - if you want your chart to display by category. For example, if you selected an object states data source, you may want your chart to display by object type, like Door, Camera and so on.</li> </ul>



	• Value - If you want your chart to display by value. For example, if you selected an object states data source, you may want your chart to be organized by state, like Offline, Pending and so on.
Order Direction	Select whether you want the data to be displayed in <b>Ascending</b> or <b>Descending</b> order.
Max number of rows	Type the maximum number of rows you want displayed in the widget. By default, this is set to 10.
Show labels	Select this if you want the data labels to be displayed in the widget.
Label Size	Type the font size that you want the labels to be.
No Data Message	Type the message that you want to display in your widget if no data is available to display. By default, this is <b>No data to display</b> . <b>Note</b> : <b>No data to display</b> means the absence of data. Some properties may have a value of o, so the o value displays.

# **Configuring Grid Widgets**

Using grid widgets you can display your data in a grid. This is useful, for example, if you want to list top 10 alarms by location and you want to include the ID, status and alarm type description in the grid.

#### CONTROL CENTER 5.28 REFERENCE GUIDE

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Top 10 A	larms			
ID	Status	Alarm Type Description	Location	Date/Time
279		Door state changed alarm	Site A	Dec 1 2020 10:45AM
278		Door state changed alarm	Site A	Dec 1 2020 10:45AM
277		Door state changed alarm	Site A	Dec 1 2020 10:45AM
276		Door state changed alarm	Building 11	Dec 1 2020 10:45AM
275		Door state changed alarm	Building 11	Dec 1 2020 10:45AM
274		Door state changed alarm	Building 11	Dec 1 2020 10:45AM
273		Door state changed alarm	Site A	Dec 1 2020 10:45AM

Grid widgets are more commonly used with SQL query and RSS feed data sources.

Grid widgets are highly configurable giving you greater control on how the information is displayed in your grid.

Once you selected **Grid** from the **Type** drop-down list, the properties that you can configure for a grid widget display. You can configure the following options:

- 1. Click Select data..
- 2. Select an existing data source or create a new data source. See <u>Creating Dashboard Data</u> <u>Sources</u>.
- 3. You can configure some or all of the following properties, depending on your requirements.

Option	Description
Number of columns The number of columns you want to display in your grid.	
Headings On	Select if you want each column in your grid to have a heading.
Separator On	Select if you want a separator between entries in your grid.
	Configure the message you want to display when there is no data to display in a widget. By default, this is <b>No data to display</b> .



Column n	If you specify 5 columns, you can specify a column heading, the text, icon (depending on how you have configured your SQL query) to display in each column in the grid.	
Columns Heading	Select the column heading from the available fields in the drop-down list.	
Text	Select the text you want to display from the available fields in the drop- down list.	
lcon	Select the icon that you want to display from the available fields in the drop-down list. Icons must use their Font Awesome CSS Identifier. For example, the cog icon is <b>fa-cog</b> . Font awesome names can be found at <u>https://fontawesome.com/</u>	
Background Color	If a background color is available in your SQL query, select the background color. Colors can be: • Web color format, for example, <b>white</b> . • RGB, for example, <b>#FF8B44</b> . • RGBA, for example, <b>#FF8B44FF</b> .	
Is Pill	<ul> <li>Select this checkbox if you want your icon to display as a pill shape. For example:</li> <li>Is Pill is not selected</li> <li>Is Pill is selected</li> </ul>	

An example of how column 2 is configured for the above grid is shown below



Column 2	
Columns Heading	
Status	
Text	
•	
Icon	
Icon 🔹	
Background Colour	
Background 🔹	
Is Pill	

# **Configuring List Widgets**

Using list widgets you can display your data in a list. This is useful, for example, if you want to list posts from an RSS feed.

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#### Top Stories

## Critical Event Management Category Leader Everbridge (11/24/2020, 2:00:00 PM) Makes Key Appointments to Expand its Global Marketing and Communications Functions

Veteran marketing executive and MIT Sloan School of Management graduate Stacey Wu , former head of global marketing at security software leader Fortinet where she helped grow the company's market cap from \$5B to over \$20B, joins Everbridge as Chief Marketing Officer Three-time CMO and Harvard

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Report calls for leaders responsible for crisis management to "deploy solutions to facilitate command and control before and during a crisis," including having a management plan to mitigate the coronavirus pandemic BURLINGTON, Mass. --(BUSINESS WIRE)--Nov. 24, 2020--Everbridge, Inc.

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The Massachusetts Technology Leadership Council recognizes Everbridge for both its significant impact on helping organizations respond to the coronavirus pandemic and for its business accomplishments over the prior year BURLINGTON, Mass. --(BUSINESS WIRE)--Nov. 16, 2020-- Everbridge , Inc.

Once you select **List** from the **Type** drop-down list, the properties that you can configure for a list widget display. You can configure how you want the information to display in your widget.

- 1. Click Select data..
- Select an existing data source or create a new data source. See <u>Creating Dashboard Data</u> <u>Sources</u>.
- 3. You can configure some or all of the following properties, depending on your requirements.

Option	Description
Title Field	Include a title name.



Title Icon	Include an icon for your widget title.
Subtitle Field	Include a sub title name.
Subtitle Icon Field	Include an icon for your sub-title.
Footer Field	Include a footer.
Footer Icon Field	Include a footer icon.
Badge Field	Include a badge.
Badge Icon Field	Include a badge icon.
Badge Color Field	Include a badge color field.
Background Color Field	Include a background color
Render HTML	Select to <b>True</b> to render any HTML tags. This only renders text markup tags and strips out any other tags.
Separator	Select <b>True</b> to display a separator.
No Data Message	Type the message that you want to display in your widget if no data is available to display. By default, this is <b>No data to display</b> . <b>Note</b> : <b>No data to display</b> means the absence of data. Some properties may have a value of o, so the o value displays.

# Configuring Machine Data Widgets

Using machine data widgets you can display performance statistics about your machine.

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Core Server	
CPU, 10 %	max 100 %
Memory, 1.3 GB	max 16 GB
Disk Reads, 0 Kbps	max 100 Kbps
Disk Writes, 279 Kbps	max 1000 Kbps
Network Sent, 8 Kbps	max 100 Kbps
Network Received, 4 Kbps	max 100 Kbps

Machine data widgets use the machine data data source.

Once you select **Machine data** from the **Type** drop-down list, the properties that you can configure for a machine data widget display.

- 1. Click Select data...
- 2. Select an existing data source or create a new data source. See <u>Creating Dashboard Data</u> <u>Sources</u>.
- 3. You can configure some or all of the following properties, depending on your requirements.

Property	Description
No Data	Type the message that you want to display in your widget if no data is available to display. By default, this is <b>No data to display</b> .
Message	<b>Note</b> : <b>No data to display</b> means the absence of data. Some properties may have a value of o, so the o value displays.
	Select the percentage of CPU usage that you want to be warned at.
CPU Warning (%)	CPU, 21 % max 100 %
Memory Warning (%)	Select the percentage of memory usage that you want to be warned at.
Show disk data	Select if you want to display performance statistics about your disk.



Show network data	to display performance statistics about your network.
----------------------	-------------------------------------------------------

# **Configuring Number Widgets**

Using number widgets allows you to display totals for your data. For example, the total number of alarms you have in your system. Number widgets are most commonly used with a SQL query data source. For example, the SELECT statement below:

```
SELECT Count(*) as AlarmCount
   ,'Blue'
FROM [pacific].[IPSC].[DeviceStatusCurrentView]
```

displays a number widget like the one shown below:



Once you select **Number** from the **Type** drop-down list, the properties that you can configure for a Number widget are shown. You can configure how you want the information to display in your widget.

- 1. Click Select data...
- 2. Select an existing data source or create a new data source. See <u>Creating Dashboard Data</u> <u>Sources</u>.
- 3. You can configure some or all of the following properties, depending on your requirements.

Option	Description
Value	Select a value from the drop-down list. The values available depend on how you have configured your <code>select</code> statement.
Label	Type the text that you want to use as a label.
Font Size	Type the font size that you want the label to be.



Text Color Field	Select the color that you want from the dropdown list.
No Data	Type the message that you want to display in your widget if no data is available to display. By default, this is <b>No data to display</b> .
	<b>Note</b> : <b>No data to display</b> means the absence of data. Some properties may have a value of o, so the o value displays.

# Creating Dashboard Data Sources

Once you have added a widget to a dashboard, see <u>Adding Dashboards</u>, you need to select a data source for the widget. To do this, from the widget configuration tools, click **Select data...** and select **Create a new data source** from the **Configure a Data Source** dialog. Once a data source is created, it can be used again for other widgets.

Source Type	Description
SQL Query	Enter a SQL query to query the data in your Control Center database.
Object States	View your object states in your widgets. You can view states by device type or for all devices.
Alarms	View your alarms in your widgets. You can view alarms by state, by priority or by alarm type.
Machine Data	View information about your machine, for example, memory and disk consumption.
RSS Feed	View information from an RSS Feed.

Control Center dashboards provide the following data sources.

The information you need to configure can be different depending on the type of widget you are configuring.

## Configuring a SQL Query Data Source

Using the SQL Query data source is the data source most often used. This data source gives you the greatest flexibility when selecting what data to display, as you can perform powerful queries.

**Caution**: Never configure SQL queries directly against database tables as these might change. Instead, query views as these are maintained across releases.

For example, the following SELECT statement gives you the top 10 alarms by location.

```
SELECT top 10 FriendlyID,
  case when [status] = 'UnHandled' then 'red'
```



```
when [status] like 'Parked By%' then 'Yellow'
when [status] Like 'Handled By%' then '#00FF00'
when [status] = 'Resolved' then 'rgb(255,140,0)'
else ''
end as Background,
case when [status] = 'UnHandled' then 'fa-warning'
when [status] = 'Handled By Administrator' then 'fa-cog'
when [status] = 'Parked By Administrator' then 'fa-radiation'
when [status] = 'Resolved By Administrator' then 'fa-thumbs-up'
else ''
end as Icon
,[AlarmTypeDescription],[Location], convert(VARCHAR, DateCreated, 0) AS DATE,
DateCreated from IPSC.AlarmDetailsView where [status] <> 'Resolved'order by DateCreated
desc
```

```
Top 10 Alarms
  ID
                                                             Date/Time
          Status
                 Alarm Type Description
                                              Location
  279
          A
                                              Site A
                                                             Dec 1 2020 10:45AM
                  Door state changed alarm
  278
          A
                                              Site A
                                                             Dec 1 2020 10:45AM
                  Door state changed alarm
  277
          A
                  Door state changed alarm
                                              Site A
                                                             Dec 1 2020 10:45AM
  276
         A
                  Door state changed alarm
                                              Building 11
                                                             Dec 1 2020 10:45AM
          A
  275
                  Door state changed alarm
                                              Building 11
                                                             Dec 1 2020 10:45AM
  274
         A
                  Door state changed alarm
                                              Building 11
                                                             Dec 1 2020 10:45AM
  273
                  Door state changed alarm
                                              Site A
                                                             Dec 1 2020 10:45AM
          A
```

A SQL Query data source can be used with any type of widget.

Once you select **SQL Query** from the **Source type** drop-down list, the **Settings** you can define for the SQL query display.

- In Connection string, type your database connection string. For example, Data Source=(local); Initial Catalog=pacific; User ID=sa; Password=password1.; MultipleActiveResultSets=True; Provider=sqloledb
- 2. In SELECT statement, type your SELECT statement. For example,

```
SELECT Count(*) as AlarmCount
   ,'Blue'
FROM [pacific].[IPSC].[DeviceStatusCurrentView]
```



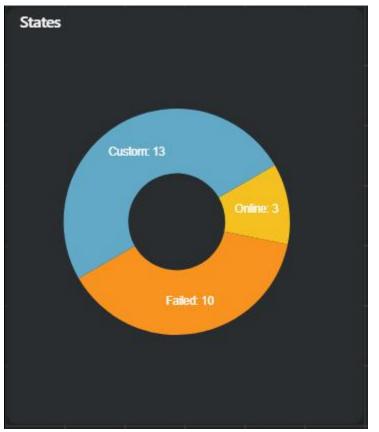
- 3. In **Refresh Interval (sec)**, type the number of seconds that you want Control Center to refresh the data.
- 4. In **Name**, type a name for your data source.

See <u>Example SQL Queries</u> for some examples of SQL queries that you could use in a SQL Query data source.

## **Configuring Object States Data Source**

When using the Object States data source, you have 2 options. You can choose to display information about

- states by device type
- states for all devices



The Object States data source displays best with a chart widget.

Once you select **Object States** from the **Source type** drop-down list, the **Settings** you can define for object states display.

- 1. In **Refresh periods**, set a duration for refreshing the selected data source
- 2. In **Name,** type a name for your data source.
- 3. Select a table from the data source. You can select either:
  - **By Device Type** displays states by individual device type for all available devices
  - All Devices Displays totals for object types for all devices.



4. Configure the property values.

Property	Description						
Category	<ul> <li>Select an object state. You can select one of the following types:</li> <li>Type - Name of device type</li> <li>Offline</li> <li>Pending</li> <li>Online</li> <li>Failed</li> <li>Custom</li> </ul>						
Value	<ul> <li>Select a value for your object state.</li> <li>Offline - Count of offline devices</li> <li>Pending - Count of pending devices</li> <li>Online - Count of online devices</li> <li>Failed - Count of failed devices</li> <li>Custom - Count of custom devices</li> </ul>						

5. Select Finish.

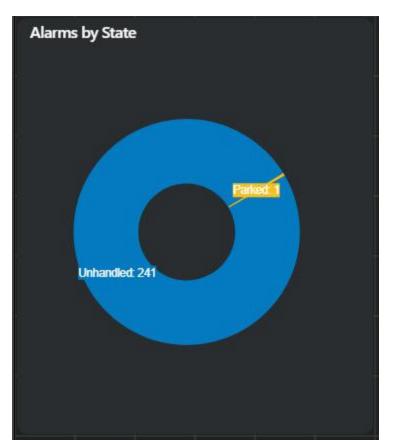
## **Configuring Alarms Data Source**

When using the Alarms data source, you have 3 options. You can choose to display information about

- Alarms by State
- Alarms by Priority
- Alarms by Alarm Type

The Alarms data source displays best with a chart widget.

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Once you select **Alarms** from the **Source type** drop-down list, the **Settings** you can define for alarms display.

- 1. In **Refresh periods**, set a duration for refreshing the selected data source
- 2. In **Name**, type a name for your data source.
- 3. Select a table from the data source. You can select either:
  - Alarm by State displays alarms by state for all available alarms.
  - Alarms by Priority Displays alarms by priority for all available alarms.
  - Alarms by Alarm Type Displays alarms by alarm type for all available alarms.
- 4. Configure the property values.

Property	Description						
Category	<ul> <li>Depending on which table you have selected, you can select:</li> <li><i>table</i> where table is the table you selected. For example, if you selected Alarms by Priority, the category is Priority.</li> <li>Count to give a count of the number of alarms, in this case, by priority.</li> </ul>						
Value	<ul> <li>Depending on which table you have selected, you can select:</li> <li><i>table</i> where table is the table you selected. For example, if you selected Alarms by Priority, the category is Priority.</li> </ul>						

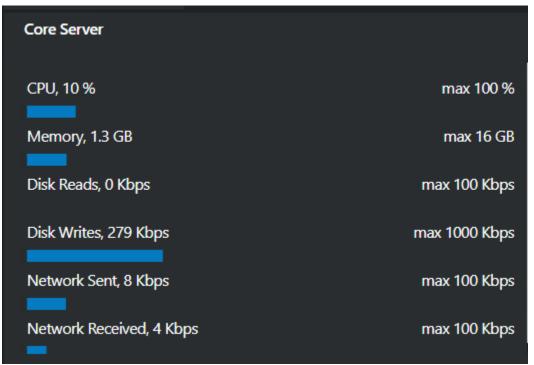


• **Count** to give a count of the number of alarms by priority.

5. Select Finish.

### **Configuring Machine Data Source**

The machine data source must be used with a machine data widget. See <u>Configuring Machine Data</u> <u>Widgets</u>.



The example below describes configuring a machine data source for a machine data widget.

Once you select **Machine Data** from the **Source type** drop-down list, the **Settings** you can define for alarms display.

- 1. In **Machine Name**, type the name of the machine whose data you want to display.
- 2. In **Refresh periods**, set a duration for refreshing the selected data source.
- 3. In **Name**, type a name for your data source.
- 4. Machine Data is already select as the table as this is the only table available for this data source type.
- 5. Configure the property values.

Property	Description			
Category	<ul> <li>Select from:</li> <li>DateUpdated - to display the date the machine data was updated.</li> <li>CPU - to display the CPU usage.</li> <li>Memory - to display the memory usage.</li> </ul>			



- **TotalMemory** to display total memory.
  - **DiskReads** to display disk reads.
  - **DiskWrites** to display disk writes.
  - **NetworkRecd** to display number of network packages received.
  - **NetworkSent** to display number of network packages sent.
- 6. Select Finish.

## Configuring RSS Feed Data Source

An RSS Feed data source displays best with a **List** or **Grid** widget. Using these widgets gives you greater control as to how the data from your RSS feed is displayed. Below is an example of an RSS feed in a **List** widget.

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#### Top Stories

## Critical Event Management Category Leader Everbridge 11/24/2020, 2:00:00 PM Makes Key Appointments to Expand its Global Marketing and Communications Functions

Veteran marketing executive and MIT Sloan School of Management graduate Stacey Wu , former head of global marketing at security software leader Fortinet where she helped grow the company's market cap from \$5B to over \$20B , joins Everbridge as Chief Marketing Officer Three-time CMO and Harvard

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#### See Configuring List Widgets, Configuring Grid Widgets.

Once you select **RSS Feed** from the **Source type** drop-down list, the **Settings** you can define for RSS feed display.

- In Address, type the address of the RSS feed whose data you want to display. For example, <u>http://feeds.bbci.co.uk/news/rss.xml?edition=uk</u> This can also be a local RSS XML file.
- 2. In **Refresh interval**, set a duration for refreshing the selected data source.
- 3. In **Name**, type a name for your data source.
- 4. **RSS Feed** is already selected as the table as this is the only table available for this data source type.



5. Configure the property values.

Property	Description
	The title of RSS feed. Select <b>Exclude?</b> if you do not want the title of the RSS feed to display in the widget.
A description of the RSS feed. Description Select Exclude? if you do not want the description of the RSS feed to distinct the widget.	
PublishDate	The date and time the information is published in the RSS feed. The date and time is converted to the local time of the Control Center client viewing the dashboard. Select <b>Exclude?</b> if you do not want the date and time an entry in the RSS feed was published to display in the widget.

6. Select Finish.

# **Displaying Dashboards**

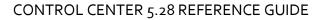
Once you have created your dashboards, you must configure them to display on your Control Center clients.

- 1. From **System Configuration** window, navigate to the folder where you have created your dashboards.
- 2. Right-click and select **New > Tile Layout**.
- 3. Type a name for your new tile layout.
- 4. Double-click your new tile layout to edit it.
- 5. From the Layout drop-down list in the tile layout menu bar, select 1-way.
- 6. Go back to the tab where your dashboard is stored.
- 7. Drag your dashboard to the new tile layout tab. The tile layout displays and you can drop your dashboard onto the layout.
- 8. Save the changes to your tile layout.
- 9. Go back to your Control Center client and select **System > Setup Display**.
- 10. Create a display area to display your new tile layout. See <u>Adding a Display Area</u>.

## **Example SQL Queries**

Here are some examples of SQL queries that you could use in a SQL Query data source. See <u>Configuring a SQL Query Data Source</u>.

**Caution**: Never configure SQL queries directly against database tables as these might change. Instead, query views as these are maintained across releases.





### Alarm Details View - Color

This query builds a custom version of the **Alarm Details View**. It uses an additional field in the **Location** object that you can configure in Object Designer. See <u>Object Designer</u>. If you configure a color for each custom field for each object, you can represent each location in the query below with a specific color. See <u>Configuring Colors in Dashboards</u> for information about defining custom colors in dashboards. If you leave the custom field blank, the object displays as a default color.

```
USE [pacific]
GO
SET ANSI NULLS ON
 GO
SET QUOTED IDENTIFIER ON
GO
CREATE VIEW [IPSC]. [AlarmDetailsView color]
AS
 SELECT A.ID AS AlarmID,
       A.FriendlyID,
       A. Priority,
       A.SlaLevel,
        A.DateCreated,
        LCF.Value,
        F.Label,
       Alarms.AlarmResolution.DateResolved,
        Alarms.AlarmResolutionType.Name AS ResolutionType,
        (CASE
             WHEN A.AlarmTypeID IS NOT NULL
             THEN Alarms.AlarmType.Label
            ELSE Alarms.CorrelatedAlarmType.Label
         END) AS AlarmType,
         (CASE
             WHEN A.AlarmTypeID IS NOT NULL
            THEN Alarms.AlarmType.ID
            ELSE Alarms.CorrelatedAlarmType.ID
         END) AS AlarmTypeID,
        (CASE
             WHEN A.AlarmTypeID IS NOT NULL
             THEN Alarms.AlarmType.Description
             ELSE Alarms.CorrelatedAlarmType.Description
        END) AS AlarmTypeDescription,
        AlarmLocation.Label AS Location,
        A.Status,
       IPSC.[User].Label AS [User],
       IPSC.AlarmPointForAlarmIDView.ObjectID,
       IPSC.AlarmPointForAlarmIDView.AlarmPoint
         Alarms.AlarmAWITH (NOLOCK) LEFT OUTER JOINAlarms.AlarmResolutionWITH (NOLOCK) ON A.AlarmResolution
FROM Alarms.Alarm A
                                           WITH (NOLOCK) ON A.AlarmResolutionID =
Alarms.AlarmResolution.ID LEFT OUTER JOIN
         Alarms.AlarmResolutionType
                                            WITH (NOLOCK) ON
Alarms.AlarmResolution.ResolutionTypeID = Alarms.AlarmResolutionType.ID LEFT OUTER JOIN
          ipsc.Folder F ON F.ID = A.AlarmLocationID LEFT OUTER JOIN
          IPSC.LocationCustomField LCF ON LCF.LocationID = F.ID lEFT OUTER JOIN
                                         WITH (NOLOCK) ON IPSC.[User].ID =
          IPSC.[User]
Alarms.AlarmResolution.OperatorID LEFT OUTER JOIN
         Alarms.AlarmType
                                         WITH (NOLOCK) ON A.AlarmTypeID =
Alarms.AlarmType.ID LEFT OUTER JOIN
         Alarms.CorrelatedAlarmType WITH (NOLOCK) ON A.CorrelatedAlarmTypeID =
```



```
Alarms.CorrelatedAlarmType.ID LEFT OUTER JOIN
         IPSC.AlarmPointForAlarmIDView WITH (NOLOCK) ON A.ID =
IPSC.AlarmPointForAlarmIDView.AlarmID LEFT OUTER JOIN
             (SELECT DISTINCT Alarms.Alarm.ID,
                             Alarms.Event.LocationID,
                             IPSC.Folder.Label
              FROM
                      Alarms.Event
                                                   WITH (NOLOCK) INNER JOIN
                               Alarms.AlarmEvent
                                                   WITH (NOLOCK) ON
Alarms.AlarmEvent.EventID = Alarms.Event.ID INNER JOIN
                               Alarms.Alarm
                                                   WITH (NOLOCK) ON
Alarms.AlarmEvent.AlarmID = Alarms.Alarm.ID INNER JOIN
                                                      WITH (NOLOCK) ON
                               IPSC.Folder
Alarms.Event.LocationID = IPSC.Folder.ID) AS AlarmLocation ON A.ID = AlarmLocation.ID
GO
```

## Top Unresolved Alarm by Location

This query returns a single unresolved alarm per location.

```
USE [pacific]
GO
SET ANSI NULLS ON
GΟ
SET QUOTED IDENTIFIER ON
GO
CREATE VIEW [IPSC]. [TopAlarmByLocation]
    AS
     With MyRowSet AS
 (SELECT [AlarmID]
       ,[FriendlyID]
       ,[Priority]
       ,[SlaLevel]
       ,CONVERT(varchar(20),[DateCreated],113) as Date
       ,[DateResolved]
       ,[ResolutionType]
       ,[AlarmType]
       ,[AlarmTypeID]
       ,[AlarmTypeDescription]
       ,[Location]
       ,[Value]
 , case when [status] = 'UnHandled' then 'fa-warning'
when [status] = 'Handled By Administrator' then 'fa-cog'
when [status] = 'Parked By Administrator' then 'fa-radiation'
when [status] = 'Resolved By Administrator' then 'fa-thumbs-up'
else ''
end as Icon
       ,[Status]
       ,[User]
       ,[ObjectID]
       ,[AlarmPoint]
       ,Row Number() OVER (PARTITION BY [Location] ORDER BY Priority ASC) as RowNum
  FROM [pacific].[IPSC].[AlarmDetailsView color] WHERE DateResolved is null)
  Select * from MyRowSet WHERE RowNum <= 1
GO
```



## **Unresolved Alarms by Priority**

This query returns all unresolved alarms ordered by highest priority.

```
USE [pacific]
GO
SET ANSI NULLS ON
 GΟ
 SET QUOTED IDENTIFIER ON
 GΟ
 CREATE VIEW [IPSC]. [AlarmsByPriority]
    AS
    Select [Priority], Count (AlarmID) as AlarmCount,
Case
 when [Priority]='1' then '#b50000'
 when [Priority]='2' then '#f7931e'
 when [Priority]='3' then '#f4c120'
 when [Priority]='4' then '#047bc0'
 end as Colour
From IPSC.AlarmDetailsView Where DateResolved Is Null Group By [Priority]
 GO
```

### Alarms by Location

This query returns a count of alarms by location.

```
USE [pacific]

GO

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [IPSC].[AlarmsByLocation]

AS

Select [Location],

Count([AlarmID]) as AlarmCount,

[Value]

From IPSC.AlarmDetailsView_color Where DateResolved Is Null Group By [Location],

[Value]

GO
```

### Alarms by Alarm Type

This query returns a count of alarms by alarm type.

```
USE [pacific]
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

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```
CREATE VIEW [IPSC].[AlarmsByAlarmType]
    AS
    Select [AlarmType],Count(AlarmID) as AlarmCount,
Case
when [AlarmType]='Door Forced' then '#0077C8'
when [AlarmType]='Door Held' then '#DF1883'
when [AlarmType]='Motion Detected' then '#C273B2'
when [AlarmType]='Tamper' then '#E6AC73'
end as Colour
From IPSC.AlarmDetailsView_color Where DateResolved Is Null Group By [AlarmType]
GO
```

## Top 10 Unresolved Alarms by Created Date

This query returns the top 10 unresolved alarms by the date the alarms were created.

```
USE [pacific]
GO
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE VIEW [IPSC]. [Top10Alarms]
    AS
    SELECT top 10 FriendlyID,
case when [status] = 'UnHandled' then '#b50000'
when [status] like 'Parked By%' then '#f4c120'
when [status] Like 'Handled By%' then '#f7931e'
when [status] = 'Resolved' then '#1E824C'
else ''
end as Background,
case when [status] = 'UnHandled' then 'fa-warning'
when [status] = 'Handled By Administrator' then 'fa-cog'
when [status] = 'Parked By Administrator' then 'fa-radiation'
when [status] = 'Resolved By Administrator' then 'fa-thumbs-up'
else ''
end as Icon
, [AlarmTypeDescription], [Location], CONVERT (varchar(20), [DateCreated], 113) as
DateCreated from IPSC.AlarmDetailsView where [status] <> 'Resolved'order by DateCreated
desc
GO
```



# **Control Center Reports**

You can generate reports using Microsoft SQL Server Reporting Services (SSRS) to enable closer integration with other business intelligence reporting systems.

Several views of the data have been included in Control Center to expose data in a useable format. These are part of the Pacific database schema.

In addition to the Pacific database schema, the optionally installed Auditing database schema has been included which is a transaction database of all activities that have occurred within Control Center.

# **Business Reporting Integration Prerequisites**

- A version of SQL Server that includes SSRS must be installed.
- The SQL Server Reporting Services feature must have been selected during SQL Server installation. SSRS is a component of SQL Server that runs as a separate process and configured through separate tools to the main database engine. It can be optionally deployed on a separate server or cluster for performance reasons.
- Internet Explorer (Version 6.0 or above) is required for access to the Report Manager.

# **Control Center Server Deployment**

Control Center and SQL Server Reporting Services can be deployed in two ways:

- Control Center can be installed on the SQL Server that is configured for reporting
- Otherwise, if SSRS and the Control Center Server are not deployed on the same machine then Control Center should be configured to run as a domain user rather than a local Windows user.

# SSRS Security Considerations

The list below is a guideline on limitations to consider when commissioning the Control Center SSRS integration on a SQL Server, as SQL Server security itself is a complex subject that is already well-documented elsewhere.

- SSRS has options to restrict permissions on individual reports. However, these permissions
  are applied based on the credentials used to connect to the report service. Control Center
  always uses the Windows user that its server process is running as to connect to SSRS, so
  permissions are all-or-nothing for Control Center users.
- If the SSRS installation is used for reporting tasks other than Control Center, Control Center should be denied permissions on those report templates, and to any databases that it does not need access to.
- Care should be taken to limit the users authorized to connect to the SSRS Web interface. Control Center permissions are not evaluated during report generation, so a report could reveal covert users unless this is specifically added to the report query.



• SSRS uses the credentials specified in the Data Source object to connect to the database. In the configuration example outlined in the document, this will cause it to impersonate the Windows user that the Control Center Server process is running as.

# **Setting SSRS Permissions**

Permissions must be set to allow users to use the service and access the reporting features.

To set SSRS permissions:

1. Browse to the SSRS Report Manager in Internet Explorer using the URL that was provided in the SSRS Configuration Manager.

<b>ip</b> : Bookmark the page to navigate to it more quickly next time.				
🖬 Security - SQL Server Rep 🗙 📃			Ŭ	
← → C ① test25server/Reports/manage/security/browse				ቻ ☆ ፤
SQL Server Reporting Services	ŝ	⊥	?	int_admin
★ Favorites 🔲 Browse				
ష్రొ Site settings				
General + Add group or user i Delete Search				
Schedules Edit Group or user Ro	les			
Security Edit BUILTIN\Administrators Sy:	stem Admin	istrator		
Edit TEST25SERVER\Int_admin Sy	stem User			

**Note**: The site may be blocked by Internet settings or the service unavailable.

- 2. Click the **Site Settings** link located in the ribbon in the top right. The **Site Settings** menu appears.
- 3. Click the **Security** menu on the left.
- 4. Click the **New Role Assignment** button in the tool bar. The **New System Role Assignment** menu appears.
- 5. In the **Group** or **Username** field, enter the username of the user authorized to run server processes. Select **System User** and click **OK**. This will configure SSRS to allow Control Center to connect and generate reports. Additional Users can be added in the same way to allow them to create and manage reports.

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SQL Server Rep	orting	Service	es			ŝ	$\overline{\mathbf{A}}$	?	int_admin
★ Favorites 🗌 Browse									
క్రొకి Site settings									
General	+ Add gi	roup or user	🗊 Delete	Search	]				
Schedules		Edit	Group or u	iser		Roles			
Security		Edit	BUILTIN\Ad	Iministrators		System Adminis	strator		
		Edit	TEST25SER	VER\Int_admin		System User			

The New System Role Assignment menu appears.

Security - SQL Server Rep 3	×	6	) —	
$\leftrightarrow \rightarrow \mathbb{C}$ (i) test25serve	r/Reports/manage/security/edit?system=true&action=addrole			┦☆ :
SQL Server Re	porting Services	$\overline{\mathbf{A}}$	?	int_admin
★ Favorites 🛛 🗌 Browse				
క్రస్తి Site settings				
General	Use this page to assign a user or group to a system role. You can also use this page to create or modify a system role definition.			
Schedules	Group or user: Name			
Security	Select one or more roles to assign to the group or user.			
	Role Description			
	System Administrator View and modify system role assignments, system role definitions, system properties, and shared	schedule	s.	
	System User View system properties, shared schedules, and allow use of Report Builder or other clients that exe	ecute rep	ort defin	itions.
	OK Cancel			

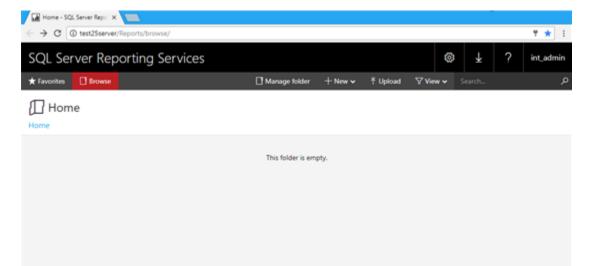
6. In the **Group or username** field enter the username of the user authorized to run server processes. Select System User and click **OK**. This will configure SSRS to allow Control Center to connect and generate reports. Additional Users can be added in the same way to allow them to create and manage reports.

## **Creating a Data Source**

To create a data source:

1. Open a browser and enter the URL for the SSRS Report Manager generated as a result of in the process above.

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2. From the menu, click the **New > New Data Source** drop down. Home > **Pacific** 

Properties	T Replace  ☐ Move					
Subscriptions Dependent items	Properties					
Security	Pacific					
	Description					
	Credentials					
	Log into the data source					
	As the user viewing the report					
	Using the following credentials					
	By prompting the user viewing the report for credentials					
	Type of credentials					
	Windows user name and password					
	Prompt					
	Without any credentials					
	Test connection					
	Apply Cancel					



The **New Data Source** dialog appears.

- 3. Enter the data source Name and a Description.
- 4. Enter the Data Source Type, Microsoft SQL Server.
- 5. Enter the **Connection String**. If using the SSRS default, enter Data Source=localhost; Initial Catalog=pacific. If using your own settings, change the source to the correct server.
- 6. Select the **Using the following credentials** option. To be able to generate reports from different workstations with different user credentials, the authorized user credentials need to be stored for the data source in the Report Server. Failing to do this will result in an error.
- 7. Click **Test Connection**. If the connection is correct, **Connection created successfully** appears below the **Test Connection** button.

**Note**: If an error message appears, check that the Pacific database is installed, and the current logged in user account has permissions to read the database.

8. Click **OK**.

#### **Configure Control Center Connection to SSRS**

To utilize SQL reporting with Control Center, a connection string must be specified in Control Center Global Settings. This enables a Generate External Report VRP shape to generate reports.

To configure Control Center connection:

- 1. Open Control Center and select **System Configuration**.
- 2. Click **Global Settings** in the toolbar. The **Global Settings** dialog appears.
- 3. Click the SQL Reporting menu item.

8	Global Settings									
	Devices	Change SQL Reporting Settings								
	Device Appearance	Connection settings								
	SMTP (Email) Styling	Please enter the SQL Server Report Server web service URL. This should match the one specified in the SQL Reporting								
	GIS	Services Configuration Manager								
	Video Export	Connection string http://localhost:8080/ReportServer								
		Test settings								
	Error Reporting	Run Tests								
	Remote Control									
	SQL Reporting									
L										
		OK Cancel Apply								
_										

4. In the **Connection String** field, type the report server web service URL from the SSRS Configuration Manager (for example, <u>http://localhost:80/ReportServer</u>) and click **Apply**.



5. Click the **Run Tests** button. Connection tested successfully appears in the dialog to verify a successful connection.

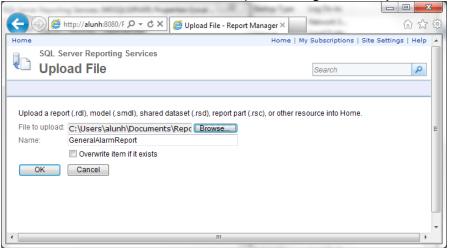
**Note**: Permission error messages at this point can be caused by the Control Center service user account not having permissions.

# Uploading SSRS Report Templates

To save time, existing report templates can be uploaded into SQL Reporting to facilitate sharing.

To upload report templates:

1. On the home screen of the SSRS Report Manager, click **Upload File**.



2. Click **Browse** and find the report template RDL file to use.

**Note**: New report templates can be created using Report Builder.

- 3. Change the **Name**, if required, and click **OK**. The report template now appears as an icon on the home screen of the Report Manager.
- 4. Hover the mouse over the report icon in the Report Manager and use the drop-down menu to select **Report Builder**. The **Report Builder** appears.



			GeneralAlarmReport - Mi	crosoft SQL Server Report Builder		_ = ×
Home Insert	/iew					0
Run Paste B Z U Views Clipboard F Report Data	ont	s Paragr			Merge     Split     Align →     Layout     12 • 13 • 14 • 15 •	
New 🕶 Edit 🗙 💿 🕸						_
Built-in Fields     Derameters     Images	- -	Genera	l Alarm Repo	ort		
- Data Sources		Alarm ID	[@AlarmID]	Operator	«Expr»	
	•	Location	«Expr»	Alarm Time	«Expr»	
DataSet1		Alarm Type	«Expr»	Resolution Time	«Expr»	
Label	4	Resolution	«Expr»			E
		Comments				=
- EE DateResolved - EE ResolvingOperator - EE Comments - EE ResolutionType - EE Location DataSet2	E DateResolved     Comments     Center ResolutionType     Location     Comments	«Expr»				
- ActivityID	1 ·	Activity Da	te Operator	Activity Type	Description	
INE Operator INE ActivityType INE Description	6	[ActivityDate]	[Operator]	[ActivityType]	[Description]	
ActivityDate						
	💷 R	ow Groups		🛄 Column Gr	oups	-
	= (Det					
Durrent report server http://alun	h:8080/R	eportServer Disconn	<u>ect</u>	🔽 🗟 100% 😑		

5. From the left panel, select the **Data Sources** folder and then right-click to select **Properties**. The **Data Source Properties** dialog appears.

Data Source Properties			23
General	Change name, type, and connection options. Name: DataSource1  Use a shared connection or report model Use a connection embedded in my report		
	pacific         http://asisdemo2:8080/ReportServer         pacific         http://localhost:8080/ReportServer         pacific         http://localhost/ReportServer         PacificModel         http://localhost/ReportServer         Browse         Use single transaction when processing the queries	Test Connection	
Help		OK Car	ncel

- 6. In the **General** menu item, click **Browse** and select the data source that was created on this server. Click **OK**. Make sure to confirm that each Dataset refers to the data source just created.
- 7. In the Report Builder, click each Dataset in turn and right-click to select **Properties**.



Dataset Properties	
Query Fields	Choose a data source and create a query.
Options	Name:
Filters	DataSet1
Parameters	<ul> <li>Use a shared dataset.</li> <li>Use a dataset embedded in my report.</li> </ul>
	Data source:
	Query type:
	Text     Table     Stored Procedure Query:
	SELECT TOP 1 IPSC.AlarmSummaryView.ID, IPSC.AlarmSummaryView.FriendlyID, IPSC.AlarmSummaryView.Label, IPSC.AlarmSummaryView.DateCreated, IPSC.AlarmSummaryView.DateResolved, IPSC.AlarmSummaryView.ResolvingOperator, IPSC.AlarmSummaryView.ResolutionType, IPSC.AlarmSummaryView.Location FROM IPSC.AlarmSummaryView INNER JOIN IPSC.AlarmDetailsView ON
	Query Designer Import Refresh Fields Time out (in seconds):
Help	OK Cancel

- On each Dataset item, confirm that the Data source displayed is the one just created (for example, DataSource1). If it is not, use the drop-down arrow to select the correct Data source and click OK. Only after the Data Source on each Dataset has been checked, test the report.
- 9. You can either:
  - o In the Report Builder, right-click the **Report** and select **Run** from the menu, or
  - In Report Manager, hover over the report and select **Run** from the drop-down.

Report parameters appear on the screen.

10.Select the required report variables and click **View Report**. The report appears in the screen ready for use.

#### **Downloading SSRS Report Templates**

For ease of use and to save time, report templates (RDL files) can be downloaded from SSRS to use with other reporting tools.

Open the Report Manager, as outlined in the previous section. Select the report icon and select Download from the drop-down menu and click Save.



# Generating a Report via the SSRS Web Interface

To do this:

- 1. Open **Report Services Home** Page and select the report. If the report uses parameters, a prompt appears at the top of the screen.
- Select the necessary parameters and click View Report. An HTML view of the report appears in the browser. The Save button in the toolbar allows for exporting the report as XML, CSV, PDF, Compiled HTML, Excel (in the older XLS format), TIFF, and Word file. Selecting this option regenerates the report in real time so the data might not match the HTML view.

### Generating a Report via Control Center

The **Generate External Report** shape allows Control Center to request a report from SSRS. Before configuring the **Generate External Report** shape, ensure the following:

- You have configured SQL Reporting in Global Settings.
- At least one report template exists.

To configure the Generate External Report VRP shape:

- 1. From Control Center, open **System Configuration**, and select the folder to store the logic for the report.
- 2. In the middle pane, right-click and select **New** and then **Response Plan**.
- 3. Label the Response Plan and select Generate device status report.
- 4. Press Enter.
- 5. Right-click the report and select Edit. The Response Plan Designer appears.
- 6. In the **General Shapes** tab, select the **System Shapes** pallet.
- 7. Locate **Generate external report** and drag it to the **Designer**. Properties are automatically shown on the right of the window.
- 8. Set the following properties.

Creation Folder	The folder in Control Center to store the generated report.
Report Format	The media type to export, such as PDF, XLS, etc.
Report Label	The label to apply to the generated media object.
	The report template within SSRS to use for generating the report (see image below for example of the selection tool).
Media (optional)	A variable of type Media to populated with the generated report.

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Parameters (optional)	A collection of bindings between Control Center variables and report parameters. The Report Template property must have been set before Parameters can be configured. Right-click anywhere on the <b>Design</b> surface and select <b>Finish</b> all routes from the menu.
--------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

9. Right-click anywhere on the Design surface and select **Finish all routes** from the menu.

A System Configuration - NOT FOR RESALE	A CONTRACTOR OF	
<u>File Edit D</u> ebug <u>T</u> ools <u>W</u> indow <u>H</u> elp		
🛛 🖬 I S 🕹 I S 🖻 I X 🗈 🖻 🕽	K   Do 📰 🚽 🔁 📮 🗉 🖬 🗖 🗖 🚽 🖓 🖕	
Shapes 👻	Overview - Administrator Objects 🏾 🍰 New Response Plan	▼ X Properties - (New Response Plan)
💋 🐴	New Response Plan	
General Shapes		▲ 🗊 🏄 🖻
🕥 Wait		
	New Response Plan - [Master Page]	Media
📔 🥥 Finish		Parameters (Collection)
C Script		E a Required
<b>V</b>		Creation Folder Administrator Objects Report Format AdobePDF
Schedule	$\checkmark$	Report Label dfvd
Evaluate		Report Template /GeneralAlarmReport
	Generate External	Select the report template to use
Select	o 🗾 Generate External o	🖃 📲 Report Server
Label	0 00	ia − 📁 Folder
	Fail Succeed	ie- 📁 Folder2 ie- 📁 Folder3
		⊞-C H
		E D
		E G
Link Shapes 🗸 🗸		GeneralAlarmReport
User Interface Shapes		
Action Shapes		-
System Shapes	Watch	
Data Shapes		
Event Shapes Collection Shapes	Name Value Type	
Multi Processing Shapes		Report Template
Geographical Shapes		Select the report template to generate the report from.
Alarm Types		
	1	l 🛔 Administrator 🛛 🛤 AlunH.cnluk.com 🗮 AlunH.cnluk.com 🥫
1 object selected.		

In addition, you can perform the following actions on the report:

- To save the report, click Save in the tool bar.
- To run the report, click Play in the tool bar.
- To verify the report has run successfully, check the folder containing the report.
- To verify an error message if the shape fails or debugging, click the Fail route path.

**Note**: Depending on the complexity of the report and the load on the server, this could take a few minutes to appear. Complicated or large reports should not be generated in time-sensitive response plans.

### **Generating Permission-Aware Reports**

You can generate permissions-aware reports that enable you to view the changes in user sessions in Control Center. The reports must be run from within Control Center or by specifying a valid user session at the point of report execution. These reports only reveal information about locations, devices, and alarms that were available to view at the time the report was run.

Prerequisites:

- Installed SQL Server Reporting Services (SSRS).
- Configured the reporting services as specified in the Configuring SSRS section.

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- Followed the Dynamic Permissions section to configure users and groups for permission aware settings.
- Log in to a second Windows Client as another user (CNL User) to be able to validate permission-based aware reports.
- Copy the Session ID for the CNL User's Client machine.

To generate a permission aware report:

- Open a browser of your choice and enter the URL to the Report Server that you configured before. For example, <u>http://Locahost/Reports</u>, where Local Host should be replaced with the machine name where the Reporting Services are installed.
- 2. Upload an existing report template or use the report builder to define a template, for example, a permission-based Alarms Report.
- Create a new response plan by clicking New > Response Plan. A new response plan is created
- 4. Configure the following options:
  - a. Provide a meaningful name, for example, Permission Aware Report and open it.
  - b. Add two new Text variables: error, sessionID.
  - c. In the **Report Designer**, drag and drop the **Generate External Report** System Shape.
  - d. Configure the following **System** shape properties:

Variable Mappings						
Use the grid below to map v	se the grid below to map variables in this Response Plan to parameters in the Report Template					
Parameter	Action	Value				
- Required						
\Lambda SessionID	o Static	🛃 92db09bf-a644-4ef8-9286				

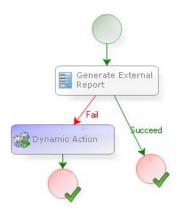
**Note**: The Session Id must be copied each time the second client is logged off from an existing session. To view the session ID, run the following query in SQL Server:

- **Creation Folder** The folder in which the report will be located. For example, Devices or Media.
- **Report Format** The format in which the report will be generated. The options are: Adobe PDF, Microsoft Excel, and Plaint text.
- **Report Label** The label of the report.
- Error The Error variable as specified earlier.
- Parameters The Session ID parameters for the second Client (CNL User) copied from SQL Server > Pacific >Tables > IPSC.SecurityAccessToken table.
- **Report Label** Specify a label for your report.
- **Report Template** Select the report template that was defined in the Report Server: Select \*from IPSC.SecurityAccessToken

	🔟 Result 🔂 Messages								
	ld	Userld	ClientId	Serverld	Client Address	Client Type	Creation Time	Expiration Time	CultureId
System User ID	5F892F8C-C07D-4358-B5DB-6FE075AB40EF	85B9E342-38A8-E711-9692-0050568CA7A8	NULL	82B9E342-38A8-E711	test25server.cnluk.com	0	2017-10-03 12:4	9999-12-31 23:59:	en-GB
CNL User ID 🗕	2 92DB09BF-A644-4EF8-9286-BFBB55A8030E	502C6140-A8A9-E711-9694-0050568CA7A8	E98291A9-3AA8-E711	NULL	test1server.cnluk.com	1	2017-10-09 07:5	2017-10-09 10:14:	en-US
Administrator -	9 F70FD36B-1167-4D90-82B7-F5BD78B500ED	91B9E342-38A8-E711-9692-0050568CA7A8	0250C62E-3AA8-E711	NULL	test25server.cnluk.com	1	2017-10-09 08:0	2017-10-09 10:14:	en-US



- e. From the **Shapes** palette, drag and drop off a **Dynamic Action** shape, and configure the following message:
  - i. Click **Next** until the **Target Object** page displays and select the target as your computer name
  - ii. On the **Actions** page, click the **Message Box** field and then click **Variable** to assign the error variable.
  - iii. Click **Next** until you reach the **Finish** page.
- f. Complete the response plan by adding **Finish** shapes to all the routes and save it.



Permission Based Alarms Report [Master Page]

- 5. Create a new GUI by clicking New > Graphical User Interface. A new Graphical User Interface appears in the list of GUIs ready to be named. Configure the GUI by performing the following steps:
  - a. Specify a name for the new GUI and double-click to open it. The new GUI is loaded in the **Design Surface**.
  - b. From **Toolbox**, drag and drop a button control and rename it to something meaningful, for example, **Run Report**.
  - c. From the first dropdown, select **guibutton1** and then select the **Clicked** event. The **guiButton1\_Clicked** response plan appears.
  - d. Add the following page variables with visibility set to optional:
    - Text type Session ID
    - Windows Client Client
    - User User
  - e. Drag and drop the **Script** shape and add one of the following scripts:

```
My.PageVariables.SessionID = My.PageVariables.client.[Get Sessions For
Client]()
```



My.PageVariables.SessionID = My.PageVariables.user.[Get Sessions For User]()

- f. Drag and drop the **Link** shape and then link it to the Permission Aware Report response plan. Complete the response plan by adding a **Finish** shape.
- g. Assign the newly created GUI to a display area, for example, **System Left** by dragging and dropping it to the display area. The newly created GUI appears in the display area.
- Click the Run Report button. A new file for the Permissions based Alarms report is created in the folder that was defined in the Permissions based Alarms Report response plan > Creation Folder field. The title of the report depends on the name provided in the Report Label field.

**Tip**: Everbridge recommends to moving all the files relevant to Permission-Aware reporting to a separate folder for ease of access.

7. Double-click and open the report. The report displays all alarms that are visible to the Admin user.



## Alarm Details

ID	Alarm Type
30	Intruder Alarm
31	Fire Alarm
32	Fire Alarm
33	Fire Alarm
34	Intruder Alarm
35	Intruder Alarm
36	Fire Alarm
37	Fire Alarm
38	Fire Alarm
39	Fire Alarm
40	Intruder Alarm
41	Intruder Alarm
42	Fire Alarm
43	Fire Alarm

- 8. To view an Alarms report for a specific user (in this case, CNL User) similar to Dynamic Permissions functionality, follow these steps:
  - a. Create an Alarm Stack View for the CNL Users' Group and make sure only alarms that are relevant to the CNL User are visible.
  - b. In the Users > CNL User > Properties > Member of dialog, remove membership of one of the other user groups.
  - c. Raise an alarm, for example, using the device change state type.
  - d. Navigate to the second Windows Client.
  - e. Ensure that the alarms are visible in the Alarm Stack View.
  - f. Go back to the main client and delete the Permissions based report.
  - g. Click the **Generate Report** button and view the newly created report. Notice only Alarm details relevant to CNL user are displayed.



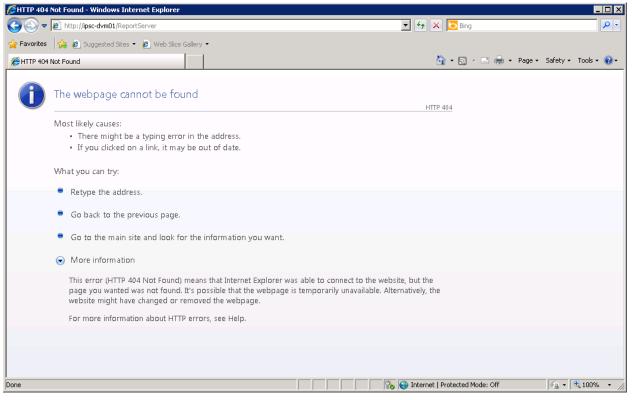
## Alarm Details

ID		Alarm Type
	31	Fire Alarm
	33	Fire Alarm
	37	Fire Alarm
	38	Fire Alarm
	42	Fire Alarm
	43	Fire Alarm

## **Troubleshooting SSRS Reports**

#### **Report Server Unavailable on Host Machine**

The report server webpage fails to show on the host machine after the configuration of SQL Server Reporting Services and the "webpage cannot be found" message is displayed.



The installation of SQL Reporting Services is incorrect. This can occur if the default configuration is selected for reporting service during the SQL Server installation wizard.



To fix this issue:

- 1. Uninstall the Report Services component of the SQL Server installation.
- 2. Delete the ReportServer and ReportServerTempDB databases.
- 3. Re-run the SQL Server installer and select the Report Services component.
- 4. Select the Install, but do not configure the report server option on the Reporting Services Configuration page.

Specify the Reporting Services cor	nfiguration mode.
Setup Support Rules Product Key	C Install the native mode default configuration.
License Terms Setup Role Feature Selection	Setup will install the report server and configure it in Native mode to use the default values. The report server is usable as soon as Setup is finished.
Installation Rules Instance Configuration	O Install the SharePoint integrated mode default configuration.
Disk Space Requirements Server Configuration Database Engine Configuration <b>Reporting Services Configuration</b> Error Reporting	Setup will create the report server database in SharePoint integrated mode and configure the report server to use the default values. However, integrated operations will not be supported until a minimal installation of a SharePoint product or technology is deployed on the report server computer and the Reporting Services Add in for SharePoint Technologies is installed and configured on the instance of the SharePoint product or technology you are using.
Installation Configuration Rules Ready to Install	Install, but do not configure the report server.
Installation Progress Complete	Setup will install, but will not configure, the report server software. After installation is finished, you can use the Reporting Services Configuration tool to set options that are required to run the report server.

#### Permission Denied by SQL Report Server

When attempting to test the SQL Reporting the connection fails with the message Permission was denied by report server.



This message appears if the account under which the Control Center Server service is running does not have administrative privileges in either Windows or SQL Reporting.

To fix this problem, set the Control Center Server service to log on as an account with administrative privileges or as an account that has sufficient permissions in SQL Reporting.

Note: Uninstalling and reinstalling Control Center automatically resets this.

IPSecurityCenter Server Properties (Local Computer)	×
General Log On Recovery Dependencies	
Log on as:	
C Local System account Allow service to interact with desktop	
This account:	Browse
Password:	
Confirm password:	
Help me configure user account log on options.	
OK Cancel	Apply

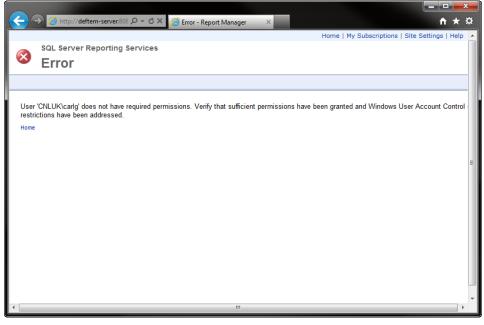


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🖉 Site Settings - Report Manager - Windows Internet Explorer			
🚱 🗢 🕖 http://deftem-server:8080/Reports/Pages/Settings.aspx?SelectedSi	ubTabId=SecurityLinkID	💌 🐓 🗙 📴 teamviewer	P •
😭 Favorites 🛛 🤹 🔁 Suggested Sites 🔹 🙋 Web Slice Gallery 🔹			
🥖 Site Settings - Report Manager		🏠 🔹 🔜 👻 🖃 🖶 👻 Page 🔹	Safety 🔹 Tools 🔹 🔞 🔹
Home		Home   My Subscriptions	Site Settings   Help 📐
SQL Server Reporting Services			
Site Settings		Search	٩
🗙 Delete 🔢 🎽 New Role Assignmen	t		
General □ Group or User ↓	Role(s)		
Edit BUILTINAdministrators	System Administrator		
Schedules	System User		
Schedules			
	-		V
http://deftem-server:8080/Reports/Pages/Settings.aspx?SelectedSubTabId=GeneralLinl		🔍 🕵 Local intranet   Protected Mode: Off	🖓 🕶 🔍 100% 💌 //.

#### User Does Not have Required Permissions For SSRS

When navigating to the report homepage from a remote workstation, an error message is shown stating that the user does not have required permissions.



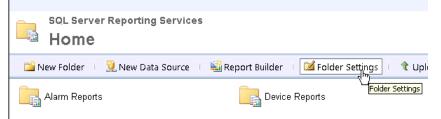
This error occurs when the currently logged in user does not have permission to view the contents of the report server.

To fix this issue:

1. Update the Report Server to provide the user with permission to view the contents of the folder.



2. Click Folder Settings on the Report Server home page toolbar.

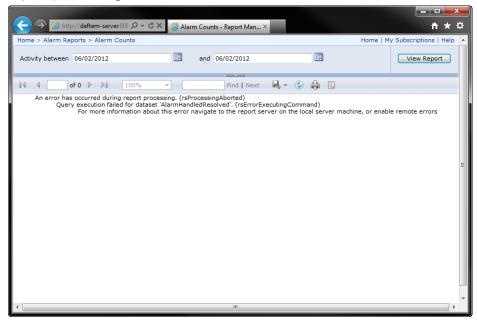


3. Create a new role assignment for the required user and select **Browser** to provide access to folders and reports only.



#### SSRS Report Fails to Show

When attempting to view a report, an error message is shown stating that an error occurred during report processing.



This error occurs if the currently logged in user does not have permission to access the underlying data source.



#### Workaround:

Configure the data source to store the connection credentials in the Report Server instead of using the Windows integrated security.

To change connection details:

- 1. Click the data source to edit the properties.
- 2. Under **Connect using**, select **Credentials** stored securely in the report server.
- 3. Enter a valid username and password.
- 4. Select the **Use as Windows** credentials when connecting to the data source.
- 5. Click **Test Connection** and then click **Apply** if the connection is created successfully.

-		Mark	All Unmark All					
Configuration Authorisation	Full Tex	t Searc	h					
Description Add test user			Description Y	Requested User	Y	Requested Date	Requested Client	Status
Request Details: User Limited Admin User Date 12/11/2018 10:59:42 AM		+	Add Test user	Limited Admin User		12/12/2018 2:16:05 PM	DEVnetClient174.CNLUKDE	Pending
	顧	+	Add djskdj	Limited Admin User		12/12/2018 1:31:32 PM	DEVnetClient174.CNLUKDE	Pending
Client DEVnetClient174.CNLUKDEV			Open System Configuration DEVnetClient174.	Limited Admin User		12/11/2018 12:08:17 PM	DEVnetClient174.CNLUKDE	Rejected
Comment test			Open System Configuration DEVnetClient174.	Limited Admin User		12/11/2018 11:41:31 AM	DEVnetClient174.CNLUKDE	Rejected
		+	Add test user	Limited Admin User		12/11/2018 10:59:42 AM	DEVnetClient174.CNLUKDE	Approved



# Mapping

Control Center revolves around locations and maps. Maps can be used to illustrate to users where both static and moving assets are located.

GIS (Geographic Information System) in Control Center allows for maps and data to be shown to the user for locations setup in the solution. Control Center allows for two different types of maps to be used; schematics and geographic.

A schematic map typically consists of a raster image, such as floor plans, CAD files, or big image imports, whereas a geographic map is typically a more interactive map such as WMS/WMTS map.

The mapping capabilities in Control Center are such that different maps and different data layers can be easily consumed and combined to provide a rich mapping experience. The following sections describe the steps to configure maps in Control Center.

## **Mapping Prerequisites**

Before any maps can be added into Control Center, you must first source them. For schematics, this simply involves identifying the images which are to be used and importing them if necessary. For geographic maps, different map sources must be identified, for example, this may include a WMS path to a mapping server.

Suitable network connectivity must be available based on the maps used. Map sources such as Google Maps and OSM will require an internet connection. If a mapping server is available on the local network, then suitable network connectivity must be in place between the mapping server and all Control Center servers/clients.

## **GIS Server Architecture**

The Control Center server installer includes an option for a GIS Service. When selected, the Control Center GIS Service is created along with a corresponding database called Atlantic. The Atlantic database is used to hold spatial data and is complementary to the pacific database.

#### Control Center GIS Service

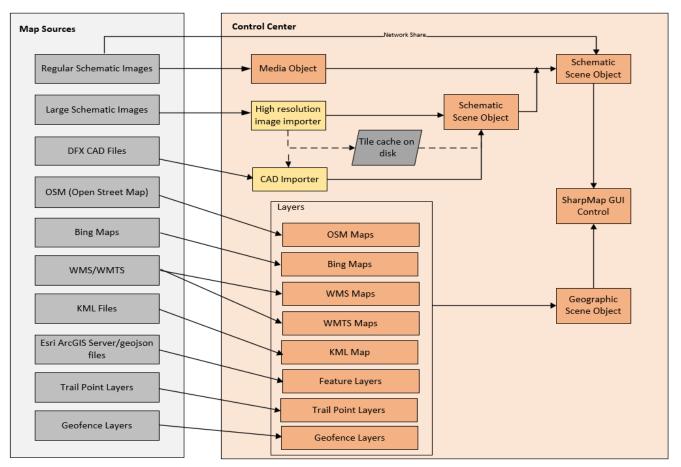
Store and pr... Running Automatic cnluk\int\_a...

Layers and Scenes

The configuration of maps in Control Center consists of several objects which link together to provide a complete solution. The diagram below shows the different components involved in taking an external map source and making it available in Control Center within a GUI.

#### CONTROL CENTER 5.28 REFERENCE GUIDE





The locations required in the solution and the source of the maps will determine the Control Center objects required. Typically, only one GUI containing the SharpMap GUI Control will be required in a solution as this will accept a location and then show the corresponding scene. For more information, see <u>Configuring Visibility Range</u>, <u>Zoom Levels and Clustering</u>.

Pr	operties	
•	]2↓  ⊑	
٥	Appearance	01.1 × 11
	Layers	Click to edit
	Lock Extents	False
	Media	FloorPlan2015-Angle3.jpg
	Pan to Location on Selec	and the second se
	Scene Search Mode	None
	Tile Images on Load	False
	Zoom to Location on Sel	False
	Zoom to Max Extent on I	False



Therefore, each location must be associated with a geographic scene or schematic scene. A scene can be used by more than one location which is particularly useful when working with Geographic scenes.

The following sections describe how to add and configure each component in the solution based on the Sample Locations Configuration section in Appendix.

**Note**: A default GIS layer for Open Street Map is created when Control Center is installed.

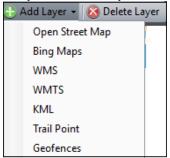
The map automatically filters out the visual effects of any alarms that are not visible to the user. You can also apply alert states to parent Location Types to highlight the affected site of an alarm to the user.

#### Configuring GIS Map Layers

You must configure the GIS layers in a Control Center solution before creating geographic scenes for locations.

To add a GIS Map Layer:

- 1. In System Configuration > Toolbar, click GIS Layer Manager
- 2. Click the **Add Layer** button on the toolbar and then click the required layer, for example, **OpenStreetMap** (OSM Maps).



3. A new layer is added to the list of layers on the left of the editor. Selecting a layer will show the properties of the layer on the right.

Overview - United Kingdom	Manage GIS Map Layers		<del>~</del> ×	
Bing Maps Layer There are unsaved changes				
	Layer Type	OSM		
Demo Radar Layer	Layer Name	Layer Name OSM Layer		
OSM Layer	Service Address:	Service Address:		
WMS Map Layer	http://[a,b,c].tile.oper	http://[a,b,c].tile.openstreetmap.org/{z}/{x}/{y}.png Validate		
	Service address should be in the following form:			
	"http://[a,b,c].tile.openstreetmap.org/{z}/{x}/y}.png"			
where "[a,b,c]." can be omitted if the service does not support load balancing.				

4. Click **Save** and then exit the editor.

Note: When adding an OSM Map Layer, use the following format for the Service Address:

http://[a,b,c].tile.openstreetmap.org/{z}/{x}/{y}.png



Where "[a,b,c]" can be omitted if the service does not support load balancing. When a map tile is requested, {z}, {x} and {y} will be replaced by numbers representing the current zoom level, x-tile number and y-tile number respectively. For more details, see the <u>Wiki for OSM</u>.

If the Service Address is left blank, then the default OSM server will be used.

To delete a GIS Map Layer:

- 1. In System Configuration > Toolbar, click GIS Layer Manager
- 2. Select the required layer and click **Delete Layer** on the toolbar. The selected layer is deleted.

#### Adding WMTS and WMS Layers

Using the GIS Layer Manager, you can configure both WMTS and WMS layers for use on geographic maps. In Control Center, WMTS and WMS layers can be used as both map background and overlay layers. For basic understanding on what WMTS and WMS are used for, refer to <u>Wikipedia</u>.

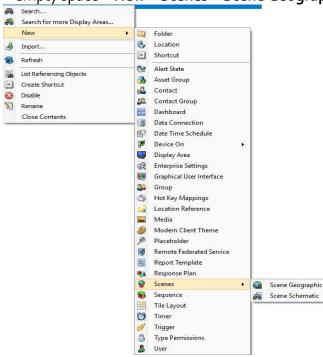
To configure a WMS/WMTS Layer:

- 1. Select the **GIS Layer Manager** on the Main toolbar. Manage **GIS Map Layers** Window opens up.
- Click the Add Layer > WMS / WMTS option. The WMS / WMTS Layer is added to the list of layers on the left of the editor.
- 3. Configure the following settings and click **Go**.
  - **Layer Type** Displays the layer type depending on your selection, for example, WMS or WMTS.
  - Layer Name Type a name for the layer.
  - Is Base Layer Select whether you want the selected layer to be a base layer or not.
  - Version Select the version of the layer from the drop-down list. Currently, only 1.0.0 of the WMTS standard is supported for the modern client. For WMS layer, we support 1.0.0, 1.1.0, and 1.1.1 versions.
  - Address Type the URL address of the mapping data source for WMTS / WMS. This URL must be accessible from both the GIS Windows Service and the Control Center Windows Client. We support both http and https URL addresses.

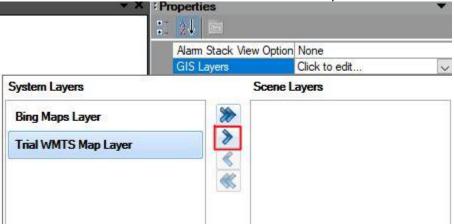
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object selected				L & Adminute	and PC1112 only	k.com 👩 PCII 12.cn/uk.com



- Once the Address entered is established, a list of layers supported by that particular map source is displayed. You are allowed to choose only one layer as the background layer for the WMTS and multiple layers for WMS setting.
- Enter the Authentication token provided by the map source provider, if applicable.
- Select the relevant EPSG from the list which provides a projected co-ordinate system used for rendering the map. The most common ones used are EPSG:3857 and EPSG: 4326 for WMS and EPSG: 3857 and 900913 for WMTS.
- 4. Click **SAVE** to save the configuration settings.
- 5. Go to **System Objects** and create a new **Scene Geographic** Object by right clicking on an empty space > **New** > **Scenes** > **Scene Geographic**.



- 6. Double-click on the object to edit it. The Scenic Geographic editor opens up.
- 7. From the **Properties** window on the right, click on **GIS layers** and choose the object you created from the list and move it to the Scenic Layers box.





8. Save the settings to view the Map projection from the source selected.

#### Adding a Trail Point Layer

The Trail Point Layer enables you to configure how geo-aware objects are displayed on a map surface in Control Center, whether schematic or geographic.

Control Center supports two types of geo-aware objects:

- **Geo-aware devices** Control Center objects which send events showing their current location.
- **Detected geo-aware objects** Objects that appear on the map when detected by a device, for example, radar, sonar, analytics camera.

Layer configuration settings enable you to define the appearance of the trail. For a geo-aware device, the icon representing the current position will be the device icon. For a detected object the icon can be configured in this layer.

**Note**: If the displayed object is associated with an alarm, and the alarm has an alert state associated with it, then the object will use the alert icon and the trail will change to use the alert color.

Before configuring Trail Paths, ensure the following prerequisites are met.

- Install a driver that can generate events representing the changing location of an object, for example, a Radar or Sonar driver and a driver that supports trails for devices. In the following example, Everbridge's internal Demo Radar driver has been used for the GIS Trail Point layer and the 2D Track Simulator driver for the Schematic Trail Paths.
- Once the drivers are installed, you must add the required device and enable it from System Configuration.

To configure a Trail Points Layer:

- 1. In System Configuration > Toolbar, click GIS Layer Manager
- 2. Click the **Add Layer**> **Trail Point** option. The **Trail Points Layer** is added to the list of layers on the left of the editor.
- 3. Configure the following settings and save the changes to the layer.

Layer Details:	
Layer Type	By default, this is set to TrailPoints. This is a non-editable field.
	The name of the trail point layer. Rename it to a meaningful title for the kind of objects whose trails are to be displayed.
Device:	
Device Type	Select a Device Type for the trail path that can generate position-aware events.

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Event	Select an event for the selected device type, for example, TraceUpdated for GIS and Position Changed for Schematic. Only geo-aware events are available for selection.			
Devices to Track	When checked, all Geo-aware devices are selected. If not, the available trackable devices for the driver appear for you to select individually.			
Only show tracks in alarm	When checked, only tracks that have alarms associated with them are displayed.			
Style:				
Trail Color	The color of the trails. By default, this is set to blue.			
Heading Color	The color of the header trail. By default, this is set to red.			
Trail selection color	The color of the trail when hovered over or selected.			
Show Trails as Discrete Points	By default, trails are displayed as lines.			



	Iver Heath     NORTHOLT       Iver     Itel       Richings Park     Itel       Isleworth     Itel       Stanwee     Itel       Staines-upon-Thames     Subbury       and     Subbury       Track: 305     New Mainteen
Trail Width	The width of the trail, for example, thin, medium, wide. By Default, this is set to Medium.
lcon	The icon configured for a trail object. Click the button to open the Icon Picker dialog. If no icon is selected, a red cross will be displayed. If an Alarm is configured, and the scene has been configured such that alarms should be displayed on the map, the Alarm icon will take precedence over the icon selected here. Note: This icon is only relevant for detected objects and not for geo-aware devices.
Stale Icon	The icon configured for a stale track. Click the button to open the Icon Picker dialog. If no icon is selected, a red cross will be displayed. A stale track is one that has no new trail points coming in within the stale period configured in Time to go stale field. The trail disappears once both Geo-aware devices and detected geo-aware objects become stale. However, for a detected geo-aware object, the icon will also disappear unless it is associated with an alarm which has not been resolved.
Label	

# everbridge®

Override Track Label	When selected, the label defined in the script field will replace the original label. The script is a sub-set of VBscript and only allows the `+' and `&' operators for string concatenation. The My namespace includes Event which contains properties available to the event that has been selected. For example, Track ID, Trace, Device ID, Date and so on.		
Hide Label	When selected, the script field will be disabled, and no track label will appear on trail paths on the end-user map surface.		
Override Alarm Label	When selected, the label defined in the script field will replace the original alarm description as configured in the Alarm Types dialog for the alarm. Note: The script is a sub-set of VBScript and only allows the `+' and `&' operators for string concatenation. The My namespace contains three sub namespaces, AlarmType, AlarmPoint, and Event which contains relevant properties for each of them. The default description is a copy of the Alarm Type label. The script is run once on initial alarm creation and not run again.		
Hide Label	When selected, the script field will be disabled, and no alarm label will appear on trail paths on the end-user map surface.		
Label Size	Size of the label. By default, it is set to 12.		
Label Font	Font type for the Label description appearing on the map		
Label Text Bold	If checked, the label text will appear in bold on the map		
Label Text Color	Color of the label Text		
Label Background Color	Color of the text background		
Label background Opacity	By default, it is set to 0.00 which means the label background will not be present		
Label Halo Color	The halo color is the outline to the label text		
Lifetime:			
Maximum age (in Seconds)	Determines the maximum age of trail points to be displayed. Older trail points will not be displayed.		
Maximum trail points	Represents the maximum number of trail points for any displayed trail appear on the end-user map surface.		



5	Determines the time (in seconds) after which the track should go stale. By default, this is set to 60 seconds.			
Classifications:				
🗄 🔂 Add 🚳 Delete 🖕	Buttons used to Add a new Classification or Delete an existing one. By default, three classifications are created; Friend, Foe and Unknown. These classifications are only applicable for Radar track objects.			

#### Notes:

- To delete a trail point layer, in the **GIS Layer Manager**, select the **Trail Point** layer and click the **Delete Layer** button on the toolbar.
- In federated environment, if a trail point layer is published to an older Control Center version, the published scene will not include any classification data.

#### Adding Geofences Layer

A Geofence is a virtual perimeter of the actual geographic boundary, drawn on the map that enables the application to trigger an event when an object enters or leaves a particular area. Geofences can be predefined on a map in a connected subsystem that can then be imported to be used within the Control Center.

**Note**: Currently Geofences cannot be created within Control Center and hence need to be imported from any subsystem monitoring the Radar information and then displayed in Control Center during commissioning.

The Geofence can be of three Types/Shapes and needs a separate map layer to be created for each type. More than one layer can also be created for each type. The three types of Geofences available are:

- Geofence Area
- Geofence Line
- Geofence Point

To configure a Geofence Layer, do the following:

- 1. Go to **System configuration** > **GIS Layer Manager** on the **Toolbar**.
- 2. Click on **Add Layer** drop down menu and select **Geofences**. A new Geofence Layer will be created and the properties that can be configured for displaying the Geofences within Control Center are shown.
- 3. Type in an appropriate Layer Name based upon what Geofence shape you would be using
- 4. In the **Devices** section, click on against the **Device Type** to choose a type of Geofence Device and click **OK**.

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Object Types					
Filter: Enter Filter Text Here					
Label	Description				
🔲 🕙 Demo Geofence Areas	Simulates a configured Geofence				
🔲 🔮 Demo Geofence Lines	Simulates a configured Geofence Line				
	Simulates a configured Geofence Point				
🔲 🕙 Demo Geofences	Simulates a configured Geofence Area				
Select All Select None		OK Cancel			
0/4 Items selected					

5. Select all Geofence devices to be rendered on the map by selecting **Select All Geofence Devices o**ption or unselect it to choose the devices of your choice. The list displayed in the box below will depend on the device type selected above.

Device Device Type	🐣 Demo Geofence	
Devices to Display	Select All Geofence Devices	
	Select Label	
	Geofence 15	
	Geofence 16	=
	Geofence 17	
	Geofence 18	
	Geofence 19	
	Geofence 20	
	Geofence 21	<b>•</b>

- 6. In the Style section, you have the option to display the disabled devices on the map, hide it or keep it transparent so that they stand out from enabled devices. The Disabled Device Opacity when set to Zero will completely hide it from the scene and 100% will make it appear just as normal to other devices. Sliding to a number in between will make it transparent to the level selected
- 7. Save the Geofences Layer.

**Note**: When you publish GIS Layer Manager in a federated environment, the Geofence layer will be blocked from being published while other layers will still be published with the scene as normal.

#### Adding a Feature Layer

You can display geographical features from GeoJSON sources, for example, bus stops, stations, metro lines, parking zones, traffic lights, hospitals, shopping, and restaurants, on your maps. To do this, add a new **Feature** layer in GIS Layer Manager and configure it to use the URL or the path to your GeoJSON file.



When rendering features, on both static and dynamic feature layers, Everbridge recommends the following numbers of features.

Optimum	Recommended	Maximum
6,000	8,000	10,000

The feature layer uses the source layer name and feature ID property name to identify the feature that is used for any Control Center events, for example, any alarms raised for that feature. Therefore, when defining a feature layer, you must:

- in Layer Name, specify the source layer name in your feature
- in **Feature ID Property Name**, specify a feature ID property name in. You only need to select one of the feature IDs, as the feature layer assumes that all features in the source have the same set of properties. The feature ID you select must be unique.

You can also pass the feature ID to third-party applications, which you can configure to display in dashboards when a user clicks a feature, for example. For more information, see <u>Configuring Map</u> <u>Object Interaction</u>.

The feature properties can be configured to display in a tooltip and the feature source can require authentication.

To improve performance, Everbridge recommends that you enable clustering on your map when using feature layers. See <u>Using Clustering</u>.

- 1. Go to **System Configuration** > **GIS Layer Manager**.
- Select Add Layer > Feature. A new Feature Layer displays. In Layer Name, type the name of your feature layer.
- 3. In **Address**, type the URL or the path to your GeoJSON file.

🔄 Manage GIS Map Layers		-
There are unsav	ed changes	
Layer Type	Features	
Layer Name	Feature Layer	
Address (url or pat	h to a file to access the feature layer geojson from an ArcGis Server or file)	,
	l\communities.geojson	Go
lice Authentication		

- 4. Select **Go**. If the source data is available and compatible with Control Center, information about the geographical features is displayed in **Layer Information**. The Feature properties are displayed in **Properties**.
- 5. Choose a feature property and type it into the **Feature Id Property Name**. You can use any feature property, as long as that feature property is unique.

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≤ M	anage GIS Map Layers		-			
	There are unsaved changes					
	Layer Type Features					
	Layer Name	Feature Layer				
	Address (url or path to a file to access the feature layer geojson from an ArcGis Server or file)					
		I\communities.geojson	Go			
	Use Authentication					
	Dynamic Layer					
	Feature Id Property Name	COMMUNITY_ID				

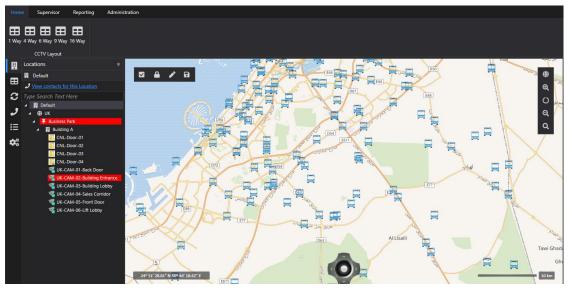


6. If authentication is required to access your Eris ArcGIS Server of GeoJSON file, select **Use Authentication**.

Option	Description				
	Portal token generated in exchange for user credentials for use with clients working with a federated server.				
Username	Username of the user who wants to get a token.				
Password	The password of the user who wants to get a token.				
	The client type that will be granted access to the token. Select one of the following:				
Client Type	<ul> <li>HttpReferrer. You are then prompted to add the base URL of the client application that will use the token.</li> <li>Ip. You are then prompted to add the IP Address that will be using the created token for access.</li> <li>RequestIp. This option does not require any additional value as it uses the IP address of the machine performing the request.</li> </ul>				

- 7. Select **Dynamic Layer** if you want Control Center to automatically refresh the data in your GIS feature layer. Use this if your underlying data source changes. The **Polling Interval** specifies how many seconds Control Center waits to refresh the data. By default, the polling interval is 15 seconds, but you can change this, depending on your requirements.
- 8. You can amend the look and feel of your feature layer when it is displayed in a map, by clearing **Show feature as icon**. Use **Line/Area settings** to amend the look and feel of your feature layer.
  - $\circ$  Line Color
  - Fill Color
  - o Icon
  - o Icon Size
  - Line width
  - o Opacity
- 9. Once you select **Go** after entering your Address, the **Feature Id Property Name** is automatically completed with the first feature ID property name in the source. You can use any feature ID, as long as that feature id is unique.
- 10. Select **Show Tooltip** if you want information about the feature layer to be displayed in the map. From **Properties**, in **Include in Tooltip**, select the properties that you want displayed in your tooltips for this feature layer.
- 11. Once you have defined your feature layer, save your changes and close **GIS Layer Manager**.
- 12. From System Main, open your map. Your feature layer displays.





You can filter on feature layers in Layers and Alarm Filter Preferences from a map.



#### **Sample Locations Configuration**

This section details a sample location configuration in Control Center. Note how each location includes either a default Schematic Scene or Geographic Scene.

A zone is used to navigate to the UK location from the Earth location. Icons are used to navigate for other locations.



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		-	CNL House
			🗄 🏢 First Floor
			🗄 🏢 Ground Floor
			🥰 Building Rear
			🥰 Car Park Cam

Earth

Contents

UK (Location)

Scene for Location Earth (Scene Geographic)



UK Contents Woking (Location) Scene for Location UK (Scene Geographic)

# everbridge®

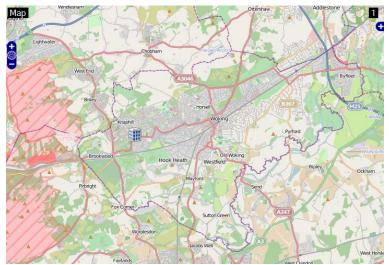


Woking

Contents

CNL House (Location)

Scene for Location Woking (Scene Geographic)



CNL House Contents First Floor (Location) Ground Floor (Location) Scene for Location CNL House (Scene Schematic) Building Rear (Camera) Car Park Cam (Camera)





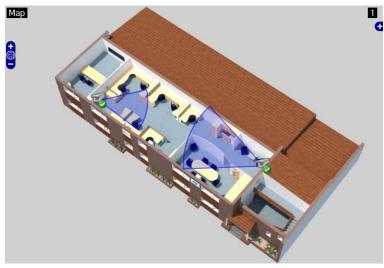
First Floor

Contents

Scene for Location First Floor (Scene Schematic)

Office Cam 6 (Camera)

Office Cam 3 (Camera)

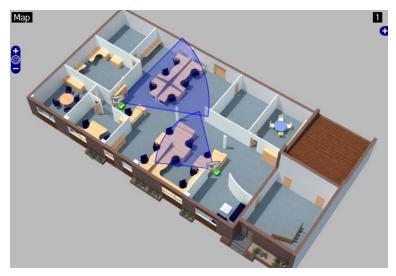


Ground Floor Contents Scene for Location Ground Floor (Scene Schematic)

Office Cam 2 (Camera)

Office Cam 8 (Camera)





### **Geographic Information Server Manager**

The Geographic Information Server Manager provides an interface to view, create, edit, and delete maps in Control Center which require the Geographic Information Service. Currently, these include CAD Files and big images. The CAD importer is used when the source map files are created in CAD. The Big images importer is used when the source images are a very high resolution and/or a large file size. Both map types use a model of tiling images to local disk and presenting to the user only the required tiles based on the selected zoom level and region of the map being viewed. This vastly improves performance and stability when working with large detailed maps.

The Geographic Information Server Manager can be accessed via the Geographic Information Server object by either double-clicking or right-clicking and selecting Geographic Information Server Manager. The Geographic Information Server Manager will then open in a new tab.

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Geocode Search Api None   Api K	ey				
Maps					
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File From Server	File From Server				

#### **Dashboard Panel**

The first section of the Geographic Information Server Manager shows a dashboard area which displays activities on the server (such as caching maps), the spatial index state (how clean the geographic database is) and settings relevant to the server (such as, which search API to use).



#### Search Settings

Control Center maps support search by asset names and through connections to online search repositories. The Search Settings are used to specify the online search repository to use. Currently supported repositories are Google and Nominatim. To use an online search repository, select the Search API to use and specify the license key for the repository. The license key can be acquired through MapQuest or Google.

	16 KJ

To enable search for a map scene:

- 1. Configure the **Geocode Search API** in the **Search Settings** and close the GIS Manager.
- 2. Open the scene and click on the map.
- 3. In the **Property** grid, select **Scene Search Mode**.

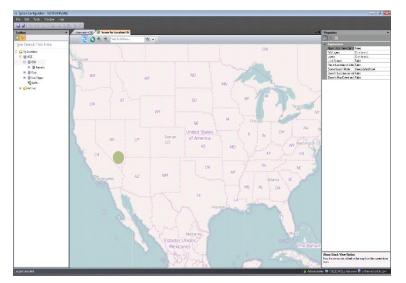


4. Select GeocodeOnly, AssetOnly, or GeocodeAndAsset.

None
GeocodeOnly
AssetOnly
GeocodeAndAsset

- 5. Save and close the scene.
- 6. Open the scene again. The **Search** box is now available in the map toolbar.





#### Maps

The Maps section of the Geographic Information Server Manager shows all imported maps. For example, you can preview, edit, and delete any available maps. See the relevant map importer sections for the available options.

Maps



### **CAD** Import

CAD files can be imported into the solution to enable displaying it to the user via a schematic scene. The process works by selecting a CAD file, selecting which layers are required and then importing the map. The import process will import the layers into the solution, so that they can be edited at a later stage, and will also create a tile cache of the map which will be used to display the maps to the end user. Additionally, data within the imported layers can be used to automatically plot Control Center assets onto the map surface.

#### **Importing Drawings**

CAD imports are managed in the Geographic Information Server Manager.

**Note**: The current major version (10) of CAD .NET supports DWG versions from 2.5 up to latest 2013 inclusive. AutoCAD 2016 does not present a newer DWG format as it utilizes DWG 2013. Support for a next DWG format will be available in future major versions only.

To access the Geographic Information Server Manager, from System Configuration > Computers, double-click and select Geographic Information Server (GISM). The Geographic Information Server Manager will open in a new tab.



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File Edit Tools Window Help		
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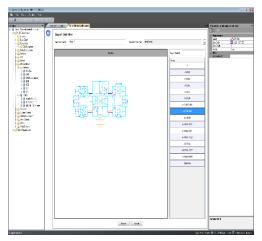
To import a CAD file:

- 1. Click the Import CAD Files button. This will navigate to the CAD File importer.
- 2. Specify a name and select a file. Currently, CAD Import only supports .dxf and .dwg formats. This will display a preview of the drawing.

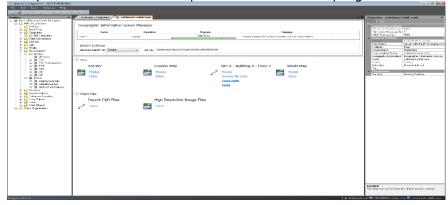
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3. Select the layers to import and change the visible property in the property grid to **True** or **False**. The preview updates as layers are turned on or off depending on your selection.



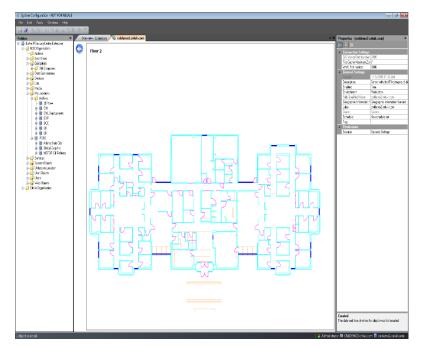


4. Click **Import** to start the import of the drawing. Once the import has completed the new drawing will be available under the **Maps** section. The GISM can now be closed while the import continues and re-opened later to review progress.



5. Once the drawing has been imported it can be previewed by clicking the preview link.





#### **Exporting Drawing Assets**

A drawing can contain information about the location of assets, for instance cameras and doors. This information can be used to automatically positions assets on Control Center scenes. Control Center can search the drawing for all text strings and then attempt to match these strings with the label of all assets in Control Center.

To search and export a list of matching asset strings for a CAD map, from the **Geographic Information Server Manager** dialog, click the **Export Assets** link.



To search for assets:

- 1. Select the top-most Control Center location. By default, Control Center searches in all locations (my Location).
- 2. Click **Search for Assets** to initiate the search.



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3. Any asset matches are presented in a list including their label, Control Center device type and the position in the drawing. You can also export the search results to a CSV file for further editing or importing into a scene.

To export the Search results:

- 1. Click **CSV Export** to save the selected assets to a file.
- 2. Select the location to store the file and click **Save**. The CSV file with the matching assets has now been saved.

#### Using an Imported Drawing as a Base Map

To use a GISM drawing as a base map:

- 1. Create and open a **Schematic Scene**.
- 2. In the **Properties** pane, select the **Background Type** as **GisServiceMap**.

	: Properties	•
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	⊿ Appearance	
	Alarm Stack View Option None	
	Background Type Click to edit	¥
Background type	GisServiceMap 💌	
	Media	
Map Name	GisServiceMap	
	NetworkShare	

3. From the Map Name property, select the picture that you want to use.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



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Map Name	Medium		¥	

#### Importing Asset Positions From a CSV File

Asset positions can be imported from a CSV file.

To import asset positions:

- 1. Click the Import Assets button along the toolbar.
- 2. Select the CSV file to import.



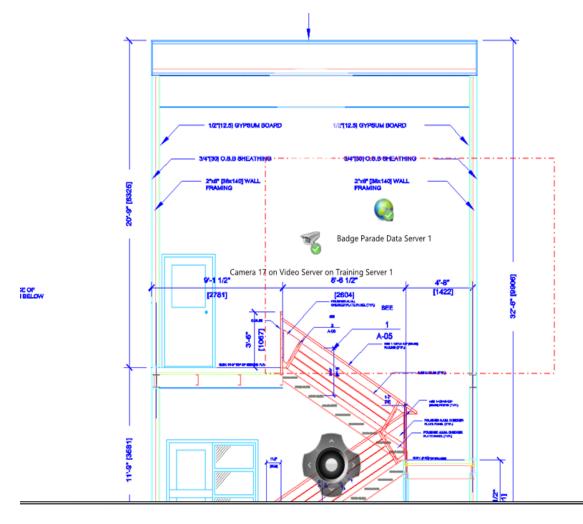
3. Once a file has been selected, a list appears showing the available assets in the file, such as assets that have already been imported and assets in the scene that are not listed in the file.

nport Assets			
• 0 assets found that	are not currently on the scene		
Import Icon	Label		
Selected assets will be a	added to the scene.		
Select All Select I	None		
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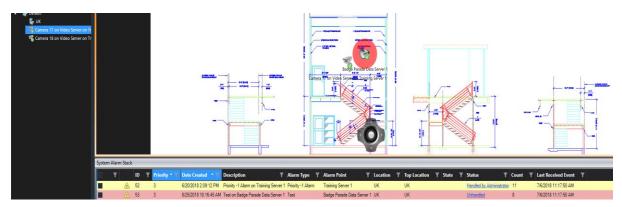
To import assets:

1. Select the assets to import and click **OK**. The assets appear on the map surface in the imported positions.





2. Save and close the scene. The new scene is now updated in the end-user interface.



#### **High Resolution Image File Import**

The High-Resolution Image importer is similar to the CAD importer however it is much simpler and used mainly for very large images.

Typically, if the image is of many thousands of pixels in width or diameter, or the file size is hundreds or thousands of megabytes, then it is recommended to use the big image importer.



To import high resolution image files:

- 1. Double-click or right-click and select **Geographic Information Server Manager (GISM)**.
- 2. The **GISM** will open in a new tab.
- 3. Click the **High-Resolution Image Files** button in the Geographic Information Server Manager.



- 4. This will navigate to the **Big Image File** importer.
- 5. Type a name for the file, select it, and then click Import.

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6. On clicking **Import**, the map object is created in Control Center and the Control Center GIS Service begins the process of creating the tile cache. The progress of the import can be seen in the dashboard area of the Geographic Information Server Manager.

Name	Operation	Progress	Message
Large Earth Image	Import	Step 5/10	Saving images for line number 4/8 at zoom level 3
		`	
patial Index State: GOOd -	Performance optimal Rebuild I	ndex	
ipatial Index State: Good - Search Settings	Performance optimal Rebuild I	ndex	

7. The imported map will the show in the **Map** area of the GISM. You can select to preview, generate the tile cache, or delete the map.



Maps

## Large Earth Image

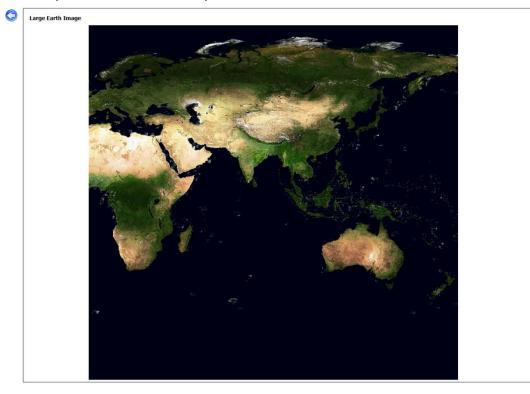
-	Preview
	Generate Tile Cache
	Delete

#### Preview

Clicking Preview will show a preview of the imported big image map based on the tile cache created. The same view is available when viewing the map in a scene.

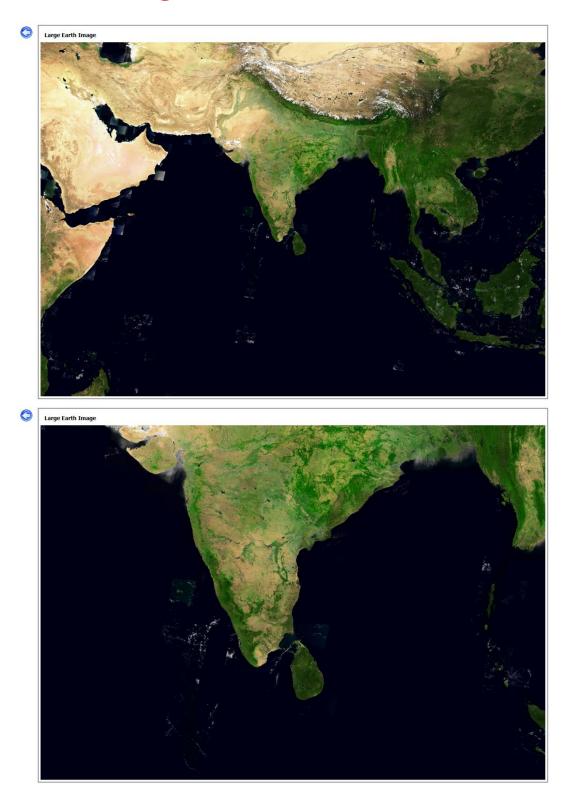
To navigate back to the Geographic Information Server Manager, click the Back button on the topleft corner.

The following image shows a 1.5 GB image imported using a tile cache, which otherwise would have been impossible to load directly into a Schematic scene.



## CONTROL CENTER 5.28 REFERENCE GUIDE









# **Recreating Tile Cache**

The GISM creates a cache of map image tiles on the GIS server machine. If the Control Center database is restored on a new server, it is required to re-create the Tile Cache. This can also be done if the Tile Cache for any reason is corrupt.

To re-create the Tile Cache, open the GISM and select Generate Tile Cache link under the map to be re-created.

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# **Deleting High Resolution Image Files**

To delete a high-resolution image file, select the big image that you wish to delete and click the **Delete** link. A confirmation message appears confirming the delete action.

## Warnings

Write access is required to the source image folder when importing large images. The Geographic Information Server will temporarily place files in this folder during import.

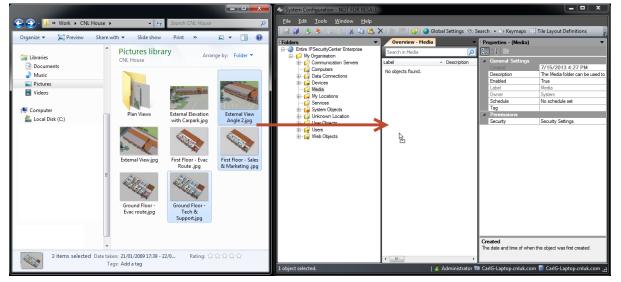
Transparent PNG files are not supported. The background of the image must be set to white before importing.



# **Importing Media Objects**

You can import media files as media objects in Control Center as a prerequisite to creating Schematic scenes.

To import a media into Control Center Client, simply drag and drop the file to the Media folder.



The selected files are then added into the solution as media objects and can then be used with schematic scenes.

#### Media

```
🗄 📄 External View Angle 2.jpg
```

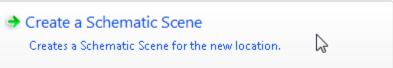
- First Floor Sales & Marketing .jpg
- 🗄 📄 Ground Floor Tech & Support.jpg

## Adding a Location with Schematic Scene

Locations that need schematic images such as floor plans, can be added with a corresponding schematic scene.

To add a new location with a schematic scene:

- 1. Right-click in any folder or location, select **New** and then click **Location**.
- 2. Specify a label for the location and then press the **Enter** key. A dialog appears prompting to create a new scene or to create a location only.
- 3. Click **Create a Schematic Scene**.



- 4. A prompt appears asking to edit the scene. Click Noto proceed.
- 5. Continue to create as many locations and scenes as required or simply proceed to edit the scene.



# **Editing a Schematic Scene**

A schematic scene offers a similar editing experience to geographic scenes. The only difference is that instead of specifying layers for the map surface, you specify a media file. The following steps assume that at least one media object has been created or imported in the solution which can be used as the map for the scene.

To edit a schematic scene:

- 1. From **My Locations**, navigate to the schematic scene to be edited and double-click to open the scene editor.
  - Centres: C& loss
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     Image: Comparison of the control of the comparison of the control of the comparison of the control of the
- 2. Edit the **Media** property and search for a media object.

- 3. Zoom and position the map based on the map view required for the location.
- 4. Click any location or asset in the System Explorer control on the left and then click on the map surface to plot an icon.



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5. Click **Save** to persist the map position and the plotted icons, then exit the editor.

**Note**: You can update properties for multiple assets at the same time by selecting multiple objects before changing the properties in the property grid. To select multiple assets, hold down the CTRL key while clicking on the assets to be selected. However, you cannot move or delete multiple selected assets.

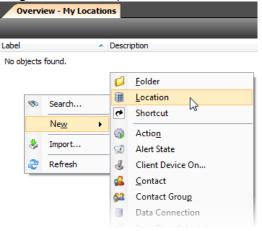
# Adding a Location with Geographic Scene

You must at least have added one base layer into the solution to create a schematic scene. A base layer is used as a background map such as OSM and Google Maps, however it cannot include KML files.

The following steps detail how to add a location along with a corresponding geographic scene. You can specify the existing layers to be used within the scene. The corresponding scene and the associated layers appear when providing the SharpMap GUI control with a location.

To add a location with geographic scene:

1. Right-click on any folder or Location in System Configuration and select New> Location



- 2. Specify a label for the location and then press the **Enter** key. A dialog appears prompting to create a new scene or to create a location only.
- 3. Click Create a Geographic Scene.

Create a Geographic Scene		
Creates a Geographic Scene for the new location.	S	

- 4. A prompt appears asking to edit the scene. Click **No** as the scene will be configured in the section <u>Editing a Geographic Scene</u>.
- 5. The association between the location and the scene can be viewed in the property grid under the **Default Scene** property of the location.

۵	Geographical Positioning			
	Default Scene	Scene for Location Earth		

6. Continue to create as many locations and scenes as required or simply proceed to edit the scene.



# Editing a Geographic Scene

Control Center enables you to edit a Geographic scene to define the GIS layers to be used and to plot assets into the map surface. This requires that the solution is first populated with the different locations and assets (cameras, doors, and so on) to be plotted onto the map before editing the scene.

Follow these steps to edit a geographic scene, define the GIS layers to use, and plot icons for other locations. These steps assume that multiple locations have been created and at least one base GIS layer has been created.

Note: In this example, a hot zone is plotted to allow you to navigate between locations.

- 1. From **My Locations**, select the geographic scene to be edited and double-click to open the **Scene** editor.
- 2. Edit the **GIS Layers** property and specify the required layers for the scene. Specify at least one base layer to act as the map surface, for example, **OSM Layer**.

System Layers	Scene Layers	
Bing Maps Layer	OSM Layer	

- 3. Zoom and position the map based on the map view required for the location. Alternatively, click **Layers** to edit the zoom position. For more information on the **Entity Layers** dialog, see <u>Configuring Visibility Range, Zoom Levels and Clustering</u>.
- 4. To create a hot zone, select from the toolbar. Hot zones enable you to navigate between locations.
- 5. From the drop-down list, select **Hot Zone**.
- 6. Search for an object to associate with the location. In this example, the UK location has been selected.
- 7. Set the properties on the hot zone as follows and position accordingly on the map:
  - **Custom Size** = True
  - **Height** = 2000000
  - Opacity = 0.1
  - **Shape** = Rectangle\_tall
  - **Width =** 700000





8. Click **Save** to persist the map position and the plotted icons, then close the editor.

**Tip**: You can also use the mouse wheel to zoom the map. Alternatively, hold down the **Shift** key, and use the mouse to drag out an area on the map to zoom to.

## How to Show Scenes

With locations and scenes configured in the solution, the logic can now be added to show the scenes when you select a location from the System Explorer control.

This logic is configured when you install Control Center, which can be changed, if required. You must configure this logic in older solutions.

#### **Graphical User Interface**

You can configure the System Explorer control to Map GUI for a location to show the scene associated with the location.

To configure System Explorer to Map GUI to show the scene associated with the location:

**Note**: These steps assume that a blank 1-way tile layout is available in the solution. If this is not available, simply create a new Tile Layout anywhere in the solution called Blank 1x and edit the layout to be 1-way.

- 1. Go to the **System Configuration** > **System Objects** folder.
- 2. Double-click the System Explorer GUI and edit it.
- 3. Select **System Explorer** on the design surface.
- 4. Edit the **Base Location** property and specify the location to act as the top-most location in the tree of locations.
- 5. Edit the **Types to Show** property to specify any other objects to show within each location in the tree, for example, **Devices** and **Placeholders**.
- 6. Handle the **Location Selected** event by dropping down the **Events** drop-down at the top of the GUI editor and selecting the **Location Selected** event. A new event page will be



created for the event with event specific variables detailing items such as the location which was selected (Selected\_Location).

- 7. Create two variables to be used to show the map GUI:
  - A page variable called MapTile with type Tile Layout. Set the Special Properties > Tile Prototype property as the Blank 1x Tile Layout.
  - A page variable called **Map** with type **GUI**. Set the **Special Properties** > **Graphical User Interface** property as the Map GUI.
- 8. Drag and drop the **Script** shape on the **Event Pages** editor to configure the GUI variable with the selected location variable using the following script:

My.PageVariables.Map.sharpMapGISMap1.GotoLocation(My.PageVariables.Selected\_Location)

- 9. Drag and drop the Configure Tile Layout shape setting.
- 10. Select the **Tile Variable** property to show the **MapTile** variable and the **Actions** property to place the **Map** variable in tile 1.

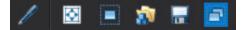
Tile Number	Action	Data	
Tile 1	Gui	👺 Map (Variable)	

- 11. Add a **Display Tile Layout** shape and set the following properties.
  - o Update Tile layout True
  - **Display Area** System Main (Static)
  - o Target Objects Current Generic Client (Variable)
  - Tile Layout Variable MapTile
- 12.Add a **Finish** shape, then save and close the GUI.
- 13. Upon saving the GUI, the updated version will be pushed out to all currently logged-in clients. Ensure that the logic has been configured correctly by selecting a location in the System Explorer. When selecting a location, the Map GUI should be shown detailing the scene associated with the selected location.

## Toolbar Displayed on the Global Map

There are two toolbars displayed on the global map.

From this toolbar you can select actions you can perform on a map.



The following table describes the actions you can perform from the toolbar in the global map.

Name	Description
Draw Figures and labels on maps	You can add lines, text and shapes to your maps. See <u>Using Map Annotations.</u>

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	The Set Minimum Visible Map area in the Scene editor of the Client (not Legacy Client) enables you to set the area of the map as close as possible to the view an end user would see.
	When displayed in the end-user GUI, the map extents and zoom level can be set to ensure that the entire marked area is visible at the maximum possible zoom level. Depending on the aspect ratio of the end-user GUI parts of the map beyond the marked area will also be displayed.
	To set the minimum visible map area:
	<ol> <li>Click the Set Minimum Visible Map area icon. The icon will be highlighted.</li> </ol>
Set Minimum Visible Map Area	<ul> <li>Select the area of map to be configured by holding down the shift key while dragging the mouse button to select the area you want to cover:</li> <li>Image: Constraint of the area of the area you want to cover the area yo</li></ul>
	<ol> <li>The area that has been set is marked in the Scene editor as a rectangle with a dotted red outline, however it does not show up in the end-user interface.</li> </ol>
	Panning on a map is an action of dragging the map to move to a location without changing the level of scaling as opposed to the zooming action which changes the scaling.
Set Map Pan Boundaries	Setting a map pan boundary will help the administrator to define the area on the map within which the user/operator can pan. This feature is particularly useful in scenes with larger images or maps where the user can easily lose focus in an attempt to get to a desired location while panning the map.
	<ol> <li>Click on the set map pan boundary icon on the toolbar.</li> <li>Select an area of map by holding down the shift key while dragging the mouse button to select the area you want to allow panning.</li> </ol>

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	3. Save the scene.
	When the pan boundary is set, the Minimum Zoom Level of the map will be changed to the level that displays the whole pan boundary. This is so the user cannot zoom outside the pan boundary. The Minimum Zoom Level can however be changed to a different value if desired.
	<ul> <li>Key points to note:</li> <li>The pan boundary does not apply on the scene editor. You need view the scene on the main screen to see the pan boundary set on the map.</li> <li>The pan boundary is similar to the set minimum visible area functionality.</li> <li>On a fresh install of Control Center version 5.10.2 all new scenes will have, both minimum visible area and pan boundary set to the whole map area as the default. For all the existing scenes, the pan boundary will need to be set.</li> <li>Always define the minimum visible area inside the pan boundary. If the minimum visible area is larger than or outside of the pan boundary, the area outside the pan boundary will not be visible in the map.</li> <li>Pan/Zoom to location on selection will not have any effect if the location selected is plotted outside the pan boundary on the map.</li> <li>Zoom to Max Extent on Load will not take any effect if the zoom level is set lower than the minimum zoom level as it would be referring to places outside of the pan boundary.</li> </ul>
Import Assets From CSV File	<ul> <li>Use Import Assets on the toolbar to import asset positions and style information from a CSV file. The Import Assets and Save Template buttons are now displayed on the toolbar that is available in the Scene editor when editing either geographic or schematic scenes.</li> <li>1. Click the Import Assets icon from the toolbar. A dialog to locate the CSV file opens.</li> <li>2. Select the CSV file that you want to import and click OK. Once a file has been selected, a list appears showing the available assets in the file, such as assets that have already been imported and assets in the scene that are</li> </ul>



	not listed in the file. The user can then decide how the data in the import file is used to update the assets on the scene.		
Save Asset Import Template	<ul> <li>Use Save Asset Import template to save asset positions into a template in the form of a CSV file.</li> <li>1. Click the Save Asset Import template icon on the toolbar. A dialog to save the .CSV file opens.</li> <li>2. Provide a name for the .CSV file and click Save. The new asset import template is saved for importing into a scene. Provide a name for the .CSV file, for example, assetpositions.csv and click Save. The new asset import template is saved with headers and blank comma separated fields for importing into a scene.</li> <li>3. To use the .CSV template, enter the values for the following mandatory fields by copying from an external file or by manually entering the values: <ul> <li>D – The unique identifier of a device from Control Center.</li> <li>Label – The label of the device.</li> <li>X – The longitude position of the plotted device.</li> <li>Y – The latitude position of the plotted device.</li> <li>Y – The latitude position of the plotted device.</li> </ul> </li> <li>4. ID, X, and Y are the only mandatory properties that must be filled. Other values can be left blank. When you have added the assets to the template file, save it as a CSV file.</li> </ul>		
Enabling/Disab ling Clustering	When zooming in and out on a geographical or schematic scenes, you can cluster cameras together for clarity. See <u>Using Clustering</u> .		

You can use this toolbar to navigate around your map.





The following table describes how to navigate round your map using the map navigation toolbar.

Name	Description
Toggle Mini Map	Select the Mini Map icon to display a mini map of your global map. Move the global map around in the mini map until you find the area of your global map that you want to display in your mini map. Alternatively, you can move your global map around until you find the area of the global map you want to display in your mini map.
Zoom In	Zooms the current displayed map based on the selection made.
Reset Zoom and Position	If you have zoomed in or out of your map, and you want to reset your map to its original size.
Zoom Out	Zooms out of the current map based on the selection made.
Zoom to Max Extents	Zoom out to the maximum extent available for your global map.

# Configuring Map Navigation Control

You can configure whether you want the Map Navigation control to be displayed on your maps. The Map Navigation control is visible by default.



You can disable the Map Navigation control by setting the **Hide Navigation Control** property to **False** in the **SharpMap** control.

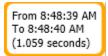
# **Displaying Trail Paths on Map Surface**

To display trail paths on a map surface:

- 1. Configure the **Trail Point** layer.
- 2. Display the default location in the Display Area.
- 3. View the Scene. The trail paths are displayed on the scene.
- 4. Zoom the map in and out to see the trail paths. In addition, right-clicking on a trackable object provides the following options:
  - Get Nearest Cameras Displays the nearest camera devices from the selected point. Note: This feature only works if you have configured the Map GUI with Get Nearest Cameras event.
  - **Hide Trail (TrackId)** Hides the trail path for the selected tracking object. However, the icon for the object will still be displayed.
  - **Hide all trails**–Hides all trail paths for all tracking objects on the scene. However, the icons for the objects will still be displayed.



- **Show Trail** Displays the selected trail for the selected object.
- Show all Trails– Displays the trails for all geo-aware objects on the scene.
- 5. The trail itself is made up of trail segments, where a segment is shown as a line between two trail points. Hovering over a trail segment shows the start and end time of the segment, and the time difference between the two trail points. For example:



# **PTZ Presets and Visible Object Mapping**

You can set PTZ Preset values for a device using the Visible Objects Mapping dialog. Presets refer to the preset camera configurations of PTZ cameras. PTZ (pan, tilt, and zoom) reflects the movement options of a camera. Using the Visible Object Mapping dialog, you can configure the objects that should be visible from a camera device on a scene.

To edit the PTZ Preset value:

- 1. From the **System Configuration** window, select the device or location for which you want to edit the PTZ Preset value for.
- 2. In the **Properties** section, click the **Visible Objects** button. The **Visible Object Mapping** dialog appears.
- 3. In the **Visible** section, click the binoculars to search for visible objects. The search results with the available objects.

Visible Obje	ect Mapping						×
Camera 17							
Visible:					Not Visible:		
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	0	bject	PTZ			Object	
+ <sup>†</sup> ↓	Camera 17		-1 🛟				
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4. Select the object for which you want to reassign the PTZ value and edit it. For example, the above figure shows that to view Door 11, Camera 4 on Video Server on Training Server should use PTZ Preset 4.

The PTZ column supports integers as well as the value -1 to indicate that the camera cannot be moved to any PTZ preset value. This can be used for devices that do not support PTZ.



Alternatively, you can also use the Get Viewing Objects for Object shape to retrieve a list of objects that are viewable by the selected device including the PTZ preset value corresponding to each device.

## Permissions-aware PTZ Pre-set

In Control Center, administrators can apply security permissions to PTZ Preset settings so that users have permission only to interact with resources in single or multiple groups. That is, you can allow control over which users are able to create and save new PTZ Presets on cameras that support PTZ. The PTZ permissions can be defined at a folder level or an individual device level. When the permissions are defined at the folder level, all devices that are part of the selected folder hierarchy will follow the same permissions.

In addition, administrators can specify which users can save the new PTZ presets and the cameras the user cannot recall PTZ presets. By default, all users can create new PTZ presets set on a device.

# **Configuring PTZ User Permissions**

You configure PTZ User Permissions in System Configuration either at the folder level or device level.

#### Prerequisites:

Before configuring the PTZ permissions, ensure that:

- A PTZ camera is configured and displayed on a tile layout.
- The device supports PTZ and preset.
- The PTZ and Preset settings are enabled, that is, set to True in Properties.
- The Allow Tile menu option is enabled for the display area from Setup Display.
- At least a few users and user groups are defined in the system.

To configure PTZ user Read and Write permissions:

- 1. In System Configuration, select a device. The Device Details window appears.
- 2. From **Properties**, click **Security Settings**. The **Security Settings** dialog appears.



System	Account Adminis	trators	2 Wel	b Port
Administrator	斗 Device Administr	ators		
Administrators	斗 Backup Operato	rs		
🕮 Users	斗 Video Export Adr	ministrators		
🕮 Response Plan Designers	2 Mobile Client Use	ers		
< 111				>
	Ad	d	Remov	е
Permissions for System				
Type Category		Allow	Deny	^
Read		~		
Device Actions(700)		<ul><li>✓</li></ul>		
Device Events(708)		✓		
Device Properties(705)		✓		≡
Device Ptz(706)		✓		
Device Service(707)		✓		
General Settings(200)		✓		
Geographical Positioning(80	0)	✓		
Permissions(202)		✓		
Write		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
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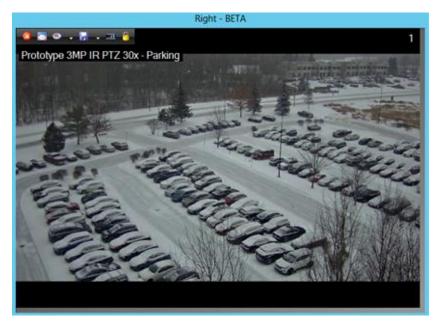
- 3. If already checked, clear the **Allow inheritable permissions** from parent to propagate to this object check box to make changes to the read and write permissions.
- 4. In the **Permissions** for the system > **Read** section, scroll down to the Device PTZ option and select it.
- 5. In the **Write** permissions of the system section, scroll down to select the DevicePTZ option and select it.
- 6. A warning message displaying the Time Count is displayed. Click **OK** or wait for 20 seconds. The window disappears, and the changes take effect.

🛆 Warning	
	Your session has changed and your client will be refreshed. You have 9 seconds to comply.
	ОК

7. Navigate to the tile windows where the PTZ camera is being displayed. Notice the new options on the toolbar that appears.

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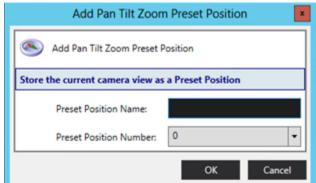




8. Click on the **Preset** icon to populate the options. Note that these options will not be populated if you set the PTZ permissions to read-only for a user in the Security Settings dialog.



9. Click **Set Preset**. A new dialog box appears to select the predefined PTZ Preset position for the selected device.



- 10. Specify the Preset Position Name and Preset Position Number.
- 11. Click **OK**. The new preset should appear in the list of Presets.
- 12. To delete a preset, select the **Delete Preset** option from the toolbar that appears.



Delete Pan Tilt Zoom Preset Positions				
S Delete Pan Tilt Zoom Preset Positions				
Select a preset position to delete:				
Preset Position Number:	▼ Delete			
	ОК			

13. Select the **Preset Position Number** that you wish to delete from the drop-down list and click OK.

To deny user permissions for a PTZ camera:

- 1. In **System Configuration**, select a device. The **Device Details** window appears.
- 2. From **Properties**, click **Security Settings**. The **Security Settings** dialog appears.
- 3. If already checked, clear the **Allow inheritable permissions** from parent to propagate to this object check box to make changes to the read and write permissions.
- 4. In the **Permissions** for the system > **Write** permissions section, scroll down to the **DevicePTZ** option and select **Deny**.

Type Category	Allow	Deny	4
Write			
Device Actions(700)			
Device Events(708)			
Device Properties(705)			
Device Ptz(706)		✓	
Device Service(707)			
General Settings(200)			
Geographical Positioning(800)			=
Permissions(202)			
Execute			
Device Actions(700)			
Device Events(708)			Г
Device Properties(705)			
Device Ptz(706)			1
Allow inheritable permissions from para Reset permissions on all child objects			ns

- 5. Click **OK**. The changes are applied to the PTZ settings in the tile layout.
- 6. Check the **Tile layout** and notice the Set Preset and **Delete Preset** options do not appear anymore.



# Asset Geometry Linked to a Device

The asset geometry can be defined for a scene and linked to a device or door in the system configuration window. This will allow the user to view context menu for that particular device in the defined area. Only one device can be linked to a polygon or line at any given time.

## **Configuring Asset Geometry**

To configure asset geometry for a particular location, do the following:

- 1. Go to **System Configuration** and create a location object under **My Locations**.
- 2. Go to the location created and create a scene.
- 3. Double click on the **Scene** object to open it.
- 4. Plot at least one camera and door on the map.
- 5. Select from the tool bar.
- 6. From the drop-down list, select Label/Line/Polygon or Hot Zone, depending on your requirements.
- 7. Select the map where you want to place the asset geometry.
- 8. Do the following:
  - For **Labels**, edit the text of the label in the Label property. Depending on your requirements, you can save the settings and close the scene window, at this point.
  - For **Lines** and **Polygons**, select the map again where you want the next part of the line or polygon to be. Repeat this step until you have finished creating your line or

polygon. Select again. A search window appears for you to choose the device you want to link to. Select the device and click **OK**.

- For **Hot Zones**, a search window appears for you to choose the device you want to link to. Select the device and click **OK**.
- 9. Save the settings and close the scene window.
- 10. Go to the Main display and select the location for which the asset geometry was defined.





11. Right click on the asset geometry to view the device context menu linked to it.



**Note**: Only one device can be linked to the line/polygon at any given time.

## **Configuring Get Nearest Cameras**

You can configure the number of cameras that can be made available in a selected location on a Schematic or Geographic map as follows:

- 1. Go to System Configuration > System Objects.
- 2. Go to the **Design Surface** tab of the **Map** object selected.
- 3. Click on the Nearest camera options to see the existing list.



4. Enter the count of cameras you wish to add and click on the **Add** button.



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1000		<b>S</b>			
	2↓				
4	Basic	c Settings			
	Ancho	or .	Top, Left		
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	Enable	ed	True		
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	Name		sharpMapGISMap1		
>	Paddi	ng	0. 0. 0. 0		
>	Size		600, 500		
	Tab In	ndex	0		
	Tab S	top	True		
	Tag		sharpMapGISMap1		
	Visible		True		
4	General Settings				
	Alert Filter Type		All		
	Filter By Alarm Priority		False		
	Hide Alarm Filter Option		False		
	Hide 1	Map Tool Bar	False		
		st Camera Options	(Collection)		
	Priorit				
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	Show	9			
		16			
		40			
		40			
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- 5. Save the settings.
- 6. You can now right-click the **System Map** > **Get Nearest Cameras** and view the new configuration.



# Configuring Visibility Range, Zoom Levels and Clustering

The zoom level is a value representing the magnification of a map/image representing the scene. Every time you move the mouse wheel forward to zoom in, the magnification of image is increased proportional to the mouse wheel movement.

Different asset and location types appear in different layers on the map surface. You can set the visibility range and zoom levels to show or hide the assets on the map. Visibility range is set by using the sliders on the Entity Layers dialog and Zoom levels are configured using the Min Zoom level and Max Zoom Level property in the property pane of the scene editor.

This helps the user to navigate on large drawings or maps without spanning too much far or near on the screen.

### Setting Zoom Level for a Scene

Zoom level helps the user to focus on the assets plotted on the map by zooming in to have a closer view or zooming out to have a broader view of the scene. By setting the zoom level, the administrator can limit the users from spanning too much far or far too near on the scene. The zoom level properties can be set in the property pane of the scene editor.



To configure the zoom level:

- Go to System Configuration > My organization > My Locations and select the scene for any location listed under this folder
- 2. Double click on the scene object to open the scene editor.
- 3. **Property** pane is shown on the right, in which the zoom level configurations can be set as shown in the figure below.

: Pr	operties	<b>•</b>
:	2↓ 🖻	
$\sim$	Appearance	
	Alarm Stack View Option	None
	Background Color	
	Background Type	Click to edit
	Current Zoom Level	17
	Layers	Click to edit
	Lock Extents	False
	Max Zoom Level	30
	Min Zoom Level	1
	Pan to Location on Sele	False
	Scene Search Mode	None
	Zoom to Location on Sel	False
	Zoom to Max Extent on I	False

Two properties help the user to configure the zoom levels as mentioned below:

- **Max Zoom Level**: Defines how far you can zoom in to a particular location on a map or CAD image. The default value is either 20 or 30 depending on the type of the scene background selected.
- **Min Zoom Level**: Defines how far you can zoom out of the map/image. The default value is always set to one. The user can configure the minimum zoom level to any number greater than 1 but MUST be lesser than the Max Zoom level. If the Min Zoom value is greater than the Max Zoom level, the value will automatically default itself to the previously saved value.

The third property, **Current Zoom Level** indicates the current zoom level of the scene. A zoom value can be entered here to take the current zoom to the desired level. If the current zoom level is set greater than the Max Zoom level, then the value will default itself to the Max value. Similarly, if the Current Zoom level is set to lesser than the min zoom level it will default itself to the Min Zoom value.

## Setting Visibility Range for a Scene

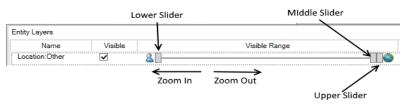
To set the visible range for a layer, and the current zoom settings can be configured using the layers dialog. The Entity Layers Dialog allows the commissioning user to set the visibility of Location Types, Location Icons, Point Colors for Locations or Devices, and the option to preview the zoom level for the current scene. You can move the sliders to define the range when the layer should be visible.



Entity Layers				
Name	Visible	Visible Range	Point	<b>^</b>
Location:Other		&Q		
Location:Country		&Q		
Location:Region	✓	& [		
Location:Site	1	& [		
Location:Building	1	& [		
Location:Floor		& [		
Location:Room	$\checkmark$	& <u> </u>		
Location:Zone	$\checkmark$	& [		=
Location:Customer	1	& [		
Device:Camera	1	& [		1
Device:Door	<b>√</b>	& [		
Device:Reader	<b>√</b>	& [		
Device:FireHead	<b>√</b>	& [		
Device:Temperature	$\checkmark$	& [		
Device:Pressure	$\checkmark$	& <u> </u>		
Device:Location	$\checkmark$	& [		
Device:Other		& [		-
 Current Zoom:	17			

## Visible Range Controller

You can plot assets as icons or points on a 2D Scene. In the Entity Layers dialog, you can specify a range of zoom levels where the icon for the asset is replaced by a colored point on the screen.



- Setting Visible range The visible range for the scene appears as a horizontal line where the human icon on the left represents the most zoomed-in setting that the scene supports. The globe icon on the right-hand side represents the furthest zoomed-out extent that the scene will support. The actual numerical values for these extents will vary by the type of the scene (GIS or Schematic) and by the size in pixels of the image itself.
- Setting Current Zoom levels You can set a zoom level to a value more than the maximum supported by the sliders, however the upper slider values should not exceed the maximum range for the scene. In addition, when setting the value for sliders, you can right-click the visible range control for the entity to set the sliders to the current zoom level.



Name	Visible		Visible Range	
Location:Other	~	8		<u> </u>
Location:Country	$\checkmark$	2		
Location:Region	~	8	Set lower value to current zoom	
Location:Site	$\checkmark$	8	Set middle value to current zoom Set upper value to current zoom	
1		0.00	Set upper value to current 200m	

Note: If the zoom level is below or above the low/high visibility bar, then the layer is not visible.

## Using the Entity Layers Dialog

- To access the **Entity Layers** dialog, open the scene for editing and click the **Layers** property.
- To close the dialog, click outside the area of the dialog box.

The Entity Layer dialog is divided into the following sections:

- Entity Layers Controller
- Overlay Layer Controller
- Background Layer Controller

Using the **Entity Layers** dialog, you can control the following aspects of how plotted items are displayed on the scene:

• Whether a specific Location or Device Type is visible on the scene. The Visible check box next to the name of each Entity Type controls. The check box indicates whether the selected entity will be visible on the scene. By default, a new scene has all Location Types, Device Types, and other Entity Types set to be visible.

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Background La	•		
l	FloorPlan2015-Angle3.jpg	▼	
Layers			
Nam	e Visible	Visible Range	
Camera			
Door		Upper Value: 1153	
Reader	<b>V</b>		
FireHead	1	2	
Temperature			
Pressure		2	
Location		20	٦
Other		20	
Hotzones		2	
Asset Geome	tries 🔽	2	'n
Scene Max Zo	oom Setting: 1680 🗘 L	Jse Current Map Zoom	

- To make a layer invisible, clear the Visible check box in the Layers dialog.
- The range of zoom levels, where:
  - Icon for the Location Type or Device Type appears: the range between the Left and Middle Slider Controls.
  - A colored point appears for the Location Type or Device Type instead of the icon: the range between the Middle and Right Slider Controls.
  - No icon or colored point appears: the range below the Left Slider and above the Right Slider.
  - Hotzones, Asset Geometries, Labels, and Mappable Devices appear or are hidden from the user.
- The colors used to indicate which Location Type or Device Type are on the map.
  - The Color Selectors for Hotzones, Asset Geometries, Labels and Mappable Devices are not functional currently.

**Note**: Hotzones, Asset Geometries, Labels, and Mappable Devices do not have a colored point representation, therefore only two sliders appear.

• The z-order in which each type of entity is drawn on the screen, that is, when entities overlap each other, which is displayed on top.



## **GIS Scenes**

For a GIS scene, the Current Zoom range is established between 1 and Max Zoom Level.

**Note** : To correctly set up the Entity Visibility, adjust the current zoom of the map using any of the following controls: text entry value, up/down control.

The slider instantly adjusts the view on the screen. The new zoom value is applied to the scene as soon as you click away from the control.

**Note**: The Current Zoom Controller value assists with visualizing the placement of the Visible Range Sliders for the various Entity types.

Name Visible Visible Range	Entity Layers							
Location:County	Name	Visible			Visible Range		Point	
Location:Region	Location:Other	<b>√</b>	8					
Location:Building  Location:Floor Location:Floor Location:Room Location:Customer Current Zoom: 5  Name Visible Visible Range  Background Layer	Location:Country		<u>&amp;</u>					
Location:Building	Location:Region		<u>&amp;</u>				۵ 🔳	=
Location:Floor  Location:Room Location:Customer	Location:Site	1	<u>&amp;</u>				۵ 📕	
Location:Room	Location:Building	<b>√</b>	<u>&amp;</u>				۵ 🔳	1
Location.Zone  Location.Customer Location.Customer Location.Customer Location.Customer Location.Customer Location.Customer Current Zoon: 5   Name Visible Visible Range  Background Layer	Location:Floor		<u>&amp;</u>				۵ 🔳	
Location:Customer	Location:Room	<b>√</b>	<u>&amp;</u>					*
Device: Camera  Device: Door Device: Door Current Zoom: 5	Location:Zone	1	<u>&amp;</u>				۵ 🔳	
Device:Door	Location:Customer	✓	<u>&amp;</u>				۵ 🔳	
Current Zoom: 5	Device:Camera	✓	<u>&amp;</u>				۵ 🔳	
Overlay Layers       Name       Visible       Visible Range	Device:Door	<b>√</b>	<u>&amp;</u>			(	۵ 🔳	-
Name Visible Visible Range	Current Zoom:	5	• · · · · · · · · · · · · · · · · · · ·					
Background Layer	Overlay Layers							
	Name	Visible			Visible Range			
								4
Bing Maps Layer v	Background Layer							
	Bing Ma	aps Layer					v	

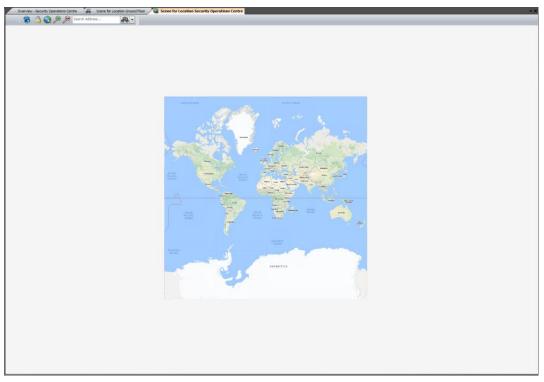
#### Current Zoom Range – GIS Scenes

As the size and aspect ratio screen of the visible area for a Scene may differ from system to system, Control Center enables you to display the Map scenes in the target display area such that the largest dimension in pixels on the scene fits to the appropriate dimension on the target display.

Depending on the aspect ratio and size of the target display area, you can customize the map to display more horizontal or vertical map area on the main display area. The level of detail and the area of interest as configured in the scene is always retained. However, when presenting the scene, you can zoom independently of the initial setting. You can also use the Lock Extents property on the Scene to prevent the user from zooming in or out from the Scene as it initially loads.

The value shown in the Current Zoom control is calculated based on the current zoom level of the underlying scene. As you zoom out past the extent of the width of the earth, the Layers Dialog will display the current zoom level based on the actual calculated number of meters to be shown on the screen below the associated Layers dialog.





The Current Zoom value is the value that the screen can accommodate from the left edge to the right edge of the screen. This value is defined between the Minimum and Maximum Zoom values in order to retain the focus within the range specified.

You can save the currently selected zoom level to the scene in Layers dialog. In addition, you can restrict zooming out from the boundaries of the image or map surface that make up the scene.

### **Schematic Scenes**

The Visible Range Controller for Schematic scenes works the same as GIS Scenes. Currently, Control Center allows scales between 1 and 5000px similar to the method used for GIS Scene with pixels instead of meters. For images where both dimensions of the image are smaller than 5000px, the dialog box will allow the user to accurately locate and manage the position of plotted assets.

**Note**: Currently, there is a known issue that limits the sliders on a schematic scene to 1px to 5000px range, which makes it challenging to accurately position the visible range markers on very high-resolution images. This issue will be addressed in a future release.

This issue affects all Schematic scenes including those based on Media objects or served by the builtin Geographic Information Service Manager.



# Defining Background Color for the Scenes

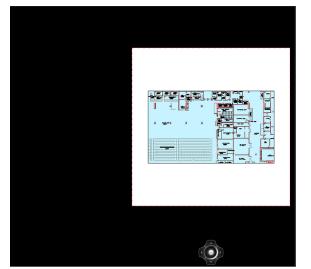
The Background Color property, available in the scene editor, allows you to change the background color of the CAD/Media image to blend with the background color of the scene.

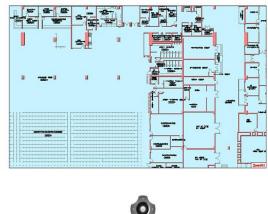
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When the user clicks on the background color property of the scene editor, a color palette is displayed. A suitable color can be chosen and saved for the scene. It can always be rolled back to the default color by selecting the transparent option under Web tab in the color palette. The difference is illustrated below.

### CONTROL CENTER 5.28 REFERENCE GUIDE

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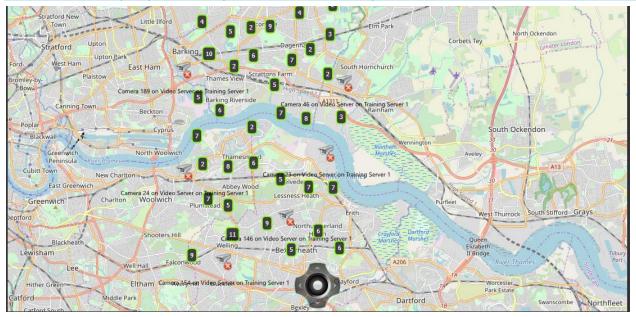
## Using Clustering

When zooming in and out on geographical or schematic scenes, cameras are clustered together for clarity.

Note: When you are zoomed in to the maximum zoom level, cameras are not clustered.

Select a cluster to display all the individual cameras within that cluster. If you select an individual camera, Control Center automatically zooms into that camera on the map.

**Note**: When clustering is enabled, right-clicking a cluster only works for the first camera in the cluster. For example, you can only view the alarm history for the first camera in the cluster.



In the Map GUI, clustering is disabled by default. To enable clustering in the Map GUI:

- 1. Go to System Configuration > Entire Organization > My Organization.
- 2. Select System Objects. The Overview tab displays.
- 3. From **Graphical User Interface**, double-click **Map** to open the editor.



- 4. Select the **Design Surface** tab to display the properties and set **Enable Clustering to True**.
- 5. Reload the map, for example, by logging off and on again.

By default, clustering is enabled in the Scene Editor. You can turn clustering on and off in the Scene Editor, depending on your requirements.

- 1. Go to System Configuration > My Organization > My Location.
- 2. Select the location whose map you want to view. The **Overview** tab displays.
- 3. Double-click the scene you want to edit to open the scene editor.
- 4. Select From the tool bar.

# **Automatic Positioning of Geo-aware Devices**

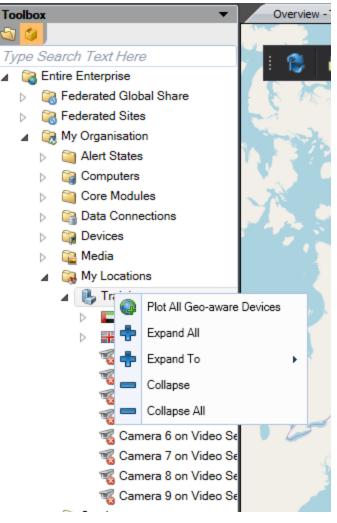
Only applies to geographic scenes.

A Control Center device can be Geo-aware. This means the device has a geographical position stored in **Longitude/Latitude**. The position is visible in the **X** and **Y** properties visible in the property grid when selecting the device. If you have Geo-aware devices, you can now automatically plot them on your map using the **Plot All Geo-aware Devices** option. This means you do not have to drag and drop your devices individually to your map.

From **System Configuration**, right-click on your location folder and select **Plot All Geo-aware Devices**.

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## Configuring System Explorer to Display a Map

You can configure System Explorer to display a map of your choice.

To configure system explorer to display a map of your choice:

- From the System Configuration > System Objects folder, double-click the System Explorer GUI and edit it.
- 2. Select the **guiSystemExplorer1** control from the drop-down list and update the following properties:
  - **Base location** Select the location to appear as the top-most location in the tree of locations in System Explorer. See <u>Configuring a Location to appear as base location</u>.
  - **Types to show** Select devices and placeholders.
- 3. Select the Location Selected event in the Events drop-down list. The Event page opens.
- 4. Create a new variable called map and assign the map GUI to it.
- 5. From the **Basic Shapes** pallet, drag and drop a **Script** shape to the editor and add the following script:



My.PageVariables>.Map.sharpMapGISMap1.GotoLocation(My.PageVariables.Selected\_Location)

- 6. From the **User Interface Shapes** palette, add a **Display Object** shape to the VRP and configure the following properties:
  - **Display Area** System Main
  - Show Objects GUI variable
  - **Target Objects** Current Generic Client variable
- 7. Add Finish shapes and save the System Explorer GUI.

# Configuring a Location to Appear as Base Location

You can configure a location of your choice to appear as a base location in the System Explorer GUI.

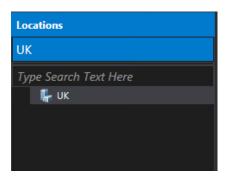
To configure a location to appear as base location:

1. From **System Objects**, open **System Explorer** and edit Locations by selecting the Base Locations property. The following dialog appears:

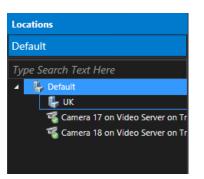
🔍 Search Objects		×
Select these object types: Locations From the following locations: My Locations Federated: Local O All Sites O Specific Site	•	Object Types Locations Sites
Label: Contains 🗸		Find Now
Description: Contains ~		Stop
Select All Select None	Folder	OK Cancel
Example Organization     Location	My Locations	8/27/2020 12:11:53

- 2. Leave the default option **Local** selected and click **Find Now**. The available locations are displayed.
- 3. Select the location you want to display as the base location and click **OK**.
- 4. In the following figure, the site **UK** is configured as the base location.





5. Selecting **Default** as the base location would display the locations and devices underneath the **Default** folder.



# Configuring System Explorer to Display Different Objects

You can configure what type of object types should be shown on the System Explorer by configuring the Types to show property.

To configure System Explorer to display different objects:

- 1. From System Objects, double-click the System Explorer GUI to open it.
- 2. With Locations selected, click Types to Show in the Properties pane. The Object Types dialog appears.
- 3. From the **Object Types** dialog, click select **None**. Any existing object type that was displayed previously will disappear from the System Explorer.
- 4. Select the required objects by selecting the check box against the object type. For example, devices, placeholders for displaying camera objects.
- 5. Save and close the **System Explorer** GUI.

# Configuring Object Types in System Explorer GUI

The Add Types to show method can be used within a response plan for the System Explorer GUI as an alternative to configuring the Types to Show property. For instance, you can limit viewing of specific devices types by specific users by scripting it in a response plan via the System GUI control.

Following is an example of how to configure the Add Types to Show method via in a response plan scripting to view specific device types in System Explorer.



To use the Add Types to Show method:

- 1. From System Objects, double-click the System Explorer GUI to open it.
- 2. With Locations selected, click Types to Show in the Properties pane. The Object Types dialog appears.
- 3. From the **Object Types** dialog, click select **None**. Any existing object type that was displayed previously will disappear from the **System Explorer**.
- 4. From the **Events** drop-down, select the **System Explorer Load** event. The event page is displayed.
- 5. Edit the System Explorer Load response plan to include the following information:
  - a. Drag and drop a **User in Group** shape on to the VRP Editor.
  - b. Drag a Script shape on to the true route in the editor.
  - c. Edit the **Script** shape to include the following script:

```
My.SystemVariables.[System
Explorer].guiSystemExplorer1.AddTypesToShow("CNL.IPSecurityCenter.Driver.Trai
ningDriver.ITrainingCamera")
My.SystemVariables.[System Explorer].guiSystemExplorer1.[Refresh Tree]()
```

Where, *Driver.TrainingDriver.ITTrainingCamera* is the camera that you want to display.

- d. Drag and drop an **End** route to complete the response plan.
- 6. Save the **System Explorer Load** response plan.
- 7. Viewing the System Explorer should now display the device type based on the user group.

## **Operator Actions**

Asset types can expose pre-configured actions. For instance, a door asset might have a function to provide access.

To access Operator actions, right-click an asset on the map surface or alternatively, in System Explorer, right-click a device and select the Operator actions.



The options available in the Operator Actions are determined by the driver configured in the system. Refer to the respective driver documentation to find out what the available Operator Actions for the selected driver are.



## Setting Permissions on Operator Actions

Permissions can be used to restrict which users and groups can execute specific actions. To set permissions for Operator Actions, select the Location where the asset resides and then **Properties** > **Security**.

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# Configuring Map Object Interaction

You can add logic to the Map GUI to determine what happens when a user clicks or double-clicks a map object such as an icon or a feature. The following events are available:

Event	Available Metadata (Variables)
Asset Double Clicked	Selected Object
HotZone Double Clicked	Selected Object
Base Object Geometry Double Clicked	Selected Object
Event Object Double Clicked	Selected Object
Trail Clicked	Selected Object Track ID



Trail Double Clicked	Selected Object Track ID
Get Nearest Cameras Clicked	Camera Count Scene X Y
Slew to Cue Clicked	Slew to Cue Camera Track ID
Feature Clicked	AlarmID FeatureId FeatureLayerName
Feature Double Clicked	AlarmID FeatureId FeatureLayerName

The following steps detail how, for example, to set up logic to change the selected location on the System Explorer when the user double-clicks a location.

To configure asset interaction on maps:

- Go to the System Configuration> System Objects folder and double-click the Map GUI to edit it.
- 2. Select the **SharpMap** control on the design surface.
- Handle the Asset Double-clicked event by dropping down the Events drop-down list at the top of the GUI editor and selecting the Asset Double-clicked event.
   A new event page will be created for the event with event specific variables detailing items such as the selected object.

As the selected object can be one of many different types, logic must be added into the event page to check if the selected object is a location.

- 4. Add a new page variable called **SelectedLocation** with the type location.
- 5. Add a Copy Variable shape and set the properties as follows:
  - o Source Variable- SelectedObject
  - Target Variable SelectedLocation

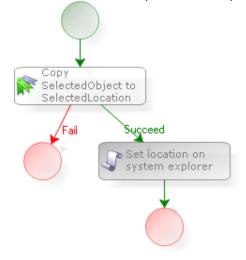
If successful, the shape will populate the SelectedLocation variable with the location held in the **SelectedObject** variable and then take the **Succeed** route otherwise **Fail** route will be taken which indicate that the **SelectedObject** references something other than a location

- 6. Add the **Finish** shape to the **Fail** route.
- 7. Add the **Script** shape to the Succeed route with the following script:



My.SystemVariables.[System Explorer].guiSystemExplorer1.[Current Location] =
My.PageVariables.SelectedLocation

8. Add the **Finish** shape to the script shape.



9. Save the GUI and select a new location from the System Explorer to show the updated map and then click an icon representing a location. The selected location of the System Explorer should be updated and in turn show the corresponding scene.

## Get Viewing Objects for Object

Control Center includes a method to find cameras that can view a specific asset. This can for instance be used to locate nearby cameras to a door which has been forced. The functionality is available through a new response plan shape called Get Viewing Objects for Object.

Before the shape can return any result, the assets must be plotted on a map and configured to detect viewing objects.

The following two methods can be used to detect viewing objects:

- **Viewshed** This method returns all cameras within the view of a camera that covers the selected asset.
- Radius This method returns all cameras within a specified radius of the selected asset.

To configure the logic:

1. Double-click and open the **Scene** editor and plot an alarm point (a door in this example) and at least one camera.





- 2. Select the door asset to view its properties in the property grid.
- 3. Select Search Mode.

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4. If the Radius Search Mode is used, specify the Visible Object Search Radius.

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	Icon Size	Large	
	Icon Visibility	Always	
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	Use Custom Icon	True	
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	Font Opacity	1	
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	Label	Camera 1	
	Label Halo Color	255, 255, 192	
	Label Halo Width	2	
	Label Offset ×	0	
	Label Offset Y	0	
	Label Visibility	Always	
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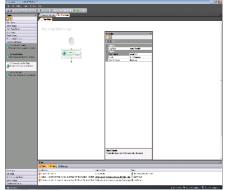
Note: Radius on Schematic scenes is measured in pixels.

- 5. Save the scene. Create a response plan and add an **Object** variable. Make the variable **Required**.
- 6. Create a device variable and make it a **Basic List**.
- 7. Add a Get Viewing Objects for Object shape to the response plan.



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8. Select the shape to view its properties.



- 9. Set the **Object** variable to be the object passed into the response plan. Set the **Results** to point to the list of devices.
- 10.Optionally, create a **Whole Number** variable and set the **Result Count** to be the results variable.
- 11. Select the **Type To Include**. Only devices of the specified types will be returned by the shape.
- 12. The shape will return the cameras that are located within the view of the asset (door). To expand on this feature, utilize the **User Interface** shapes to display the cameras to the user.

## **Configuring Snapshots in Maps**

You can take a snapshot of a map in Control Center, in the same way that you can take a snapshot of a video. This is useful if you want to send this snapshot to a third party or if the snapshot is required for reference, in another company's system, for example.



In **Enterprise Settings** there are options that allow you to configure how Control Center uses snapshots.

- 1. Go to **System > System Configuration**.
- 2. Select Global Settings.
- 3. From Global Settings, select Enterprise Settings.
- 4. Navigate to the snapshot options, as shown below:

Add Snapshot Information		
Auto-enable PTZ Behavior		
Enable Location Quotas		
Enable Snapshot Editing		
Snapshot Image format	Native	•
Snapshot Information Date-Time format		
Snapshot Information use client Local Time		
Video Snapshot Path	%userprofile%\Documents\IPSecurityCenter Snapshots	

The following table describes how to configure the snapshot options.

Option	Description
Add Snapshot Information	Adds snapshot information to your snapshot. See <u>Taking Snapshots From Maps</u>
Auto-enable PTZ Behavior	Only applies to snapshots taken of video.
Enable Location Quotas	Only applies to snapshots taken of video.
Enable Snapshot Editing	Enables you to edit your snapshot. See <u>Taking</u> <u>Snapshots From Maps</u>
Snapshot Image Format	Select one of the following: • Native • JPEG • PNG • BMP
Snapshot Information Date-Time format	See <u>Snapshot Time Zone</u>
Snapshot Information use client Local Time	See <u>Snapshot Time Zone</u>
Video Snapshot Path	Allows you to specify where to store your snapshots.



## Displaying Information About Objects on Maps

When hovering over an object on a map, you can configure Control Center to display information about that object in a tool tip. For example, the object's status, alarms and location.

	Identifier	a35e4149-7403-4b4c- bd38-7d040aedfc5d
B	State	Locked
, LK (	Description	CNL Demo Simulator Door
	Current Alarms	
	▲ 19 3/9/2020 Do 1:44:59 PM Do	porForced on CNL-DOOR-02

Tooltip annotations are created by default upon a new installation or upgrade of Control Center for:

- Device
- Location

The default tooltip displays:

- Label
- Description
- Extra State Info

You can configure the default tooltip template (or add a new one) from **System > System Configuration > Enterprise Settings > Global Settings > UI Configuration**. See <u>Enabling Control</u> <u>Center Client Access to Tooltip Templates</u>.

If you have configured your tooltip to display the Current Alarms property, the tooltip displays information about the latest 3 alarms for the object.

#### Note:

- You can only apply one tooltip at a time.
- If there is no value for a particular property, then the property is not displayed in the tooltip, even if that property has been configured to display in the tooltip template.
- If you have configured any theming for your Control Center client, then the tooltip uses the theming you have defined.
- If you have configured your tooltip to display the Extra State Information property then, if the Control Center Connection Service is not available, then the tooltip displays a message that informs the user that the Control Center Connection Service is not available.
- If no tooltip is configured, then nothing is displayed.



## Creating a Tooltip Template

To do this:

- 1. Go to System Configuration > Entire Enterprise > My Organization.
- 2. Select System Objects. The Overview tab displays.
- 3. Right-click in the **Overview** tab and select **New** > **Tooltip Template**.
- 4. Enter a name for your tooltip template.
- 5. Double-click your tooltip template to configure it. The tooltip template tab displays.
- 6. Optionally, enter a description for your tooltip template.
- 7. From **Object Type**, select in to display the **Objects Type** dialog.

Note: Repeat this step for each object type you want to configure a tooltip template for.

- 8. Select the devices that you want to provide tooltips for.
- 9. Select **OK** to close the **Objects Type** dialog.
- 10. From the **Properties** drop-down list, select a property that you want to display in the tooltip and press **Enter** to add that property to the **Properties** box. Repeat this step for all the properties you want to display in the tooltip. For information about the properties available for each object, see <u>Devices Section</u>.
- 11. Use the arrows next to the **Properties** box to configure the order that you want the properties to display.
- 12. Use the **Add** and **Remove** buttons to add and remove tooltip templates, depending on your requirements.

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IL Demo Simulator Door	Tooltip Object	t Information	
	Description	CNL Demo Simulator Door	
	Device Type	F CNL Demo Simulator Door	
	Properties		
	Identifier	×	1
	State	×	
			•

#### **Note**: You cannot remove the default **Tooltip Template**.

- 13. Save and close the tooltip template tab.
- 14. Enable your tooltip template in Global Settings, see <u>Enabling Control Center Client Access</u> to Tooltip Templates.
- 15. Log off and on again to apply the changes. When you hover over your object, your tooltip is displayed.

#### Enabling Control Center Client Access to Tooltip Templates

**Note**: Only one tooltip template object can be applied at a time.

To enable your Control Center client access to tooltip templates:

- 1. From System Configuration, select Global Settings > Enterprise Settings.
- 2. Navigate to **UI Configuration**.
- 4. Select **Find Now**. The available tooltip templates display.
- 5. Select the tooltip template that you want to grant access to and select **Apply**.



🍃 Global Settings			>
Alarms	Enterprise Settings	Configuration	
Environment Variables		_	
Enterprise Settings	Configure Enterprise Settings		
Error Reporting			1 -
Languages	Enterprise Settings: Recal Enterprise	nse Settings	
Security	Name	Value	V
SQL Reporting	Use SSL		
Styling	^ General		
Video Wall	Support URL	http://support.cnlsoftware.com	
	^ Object		
	Object Selection Color	#FFFFA500	-
	<ul> <li>RateLimit</li> </ul>		
	Rate Limit Default	60	*
	Rate Limit Option	Disabled	•
	Rate Limit Window	60	+
	<ul> <li>VI Configuration</li> </ul>		
	System Explorer GUI	Baseline System Explorer	
	Main Menu GUI	Baseline Main Menu	
	Tooltip Template	Default Tooltip Template	
	Alarm Attachment Size limit per item. If	left blank no limit will be applied.	
	J	OK Cancel Appl	у

#### **Configuring Permissions to Tooltips**

You must have read access to a tooltip template object to see the tooltip template in Control Center. If you want to create a tooltip template object, you must have write permissions to tooltip templates.

You can restrict who has access to this feature using the Tooltip Template type permission. See <u>Type Permissions</u> for more information.

## **Map Shapes**

Both schematic scenes and geographic scenes can be modified by the user to represent other objects in the system and to illustrate useful information to other users.

Depending on the type of shape, these are either added at runtime through the end-user interface or at design time in the system configuration window.

Shape Type	Availability	Description
lcon	System Configuration	Used to plot icons into the map surface to represent assets such as cameras or doors. Icons include a label for the associated object.
Hot Zone	3	Provides a circle, square or rectangle to represent any object in the system. This is typically used to draw an area on the map to represent a location to allow the user to navigate between locations.

The following table lists the different objects types available and their associated functionality.



	System Configuration	Provides the ability to draw lines and polygons onto the map surface to represent objects in the system. This provides similar capabilities to a hot zone and would typically be used to draw a fence or more complex area with multiple points.
IV/Ian Landic		Provides the ability to add static labels to maps. The labels keep their size regardless of the zoom level.

#### Icons

Icons can be added to the map surface to represent system objects. These will typically be used to represent cameras and doors.



You can customize an icon's properties to determine its appearance and behavior:

Custom Icon	Provides the ability to select a custom icon.	
Device Type	Determines the type of object the icon represents. This property will be set automatically when adding the icon.	
Hide Icon	Provides the ability to hide an icon. The icon will become visible if an Alert State is applied to it.	
Icon Size	Determines the size of the icon on the map.	
Icon Visibility	Determines the icon visibility on the map.	
Rotation	Determines the rotation of the icon. By default, this is set to zero which indicates no rotation.	
Use Custom Icon	Specifies if a custom icon should be used as specified in the Custom Icon property.	



Determines the radius in which to search for nearest assets when the Visible Object Search Mode property is set to Radius. For geographic scenes, the value will determine meters, for schematic scenes, the value will determine pixels.
The bearing of the Viewshed property, which is the direction at which the camera is pointing in degrees (Latitude & Longitude). Where, o is north, 90 is east, 180 is south and 270 is west.
The distance of the Viewshed. On Geographical maps, this is 50 by default and on Schematic maps, it is set to 144, which can be changed.
The opacity of the Viewshed on a scale ofo to 1.
Determines the method by which to search for visible objects. This can by based on either the Viewshed or Radius.
The width of the Viewshed in degrees on both sides from the center of the bearing. For example, if bearing is 90 and the view angle is 10, the view shed will cover an area of 20 degrees, which os 10 on each side of the bearing.
The color of the Viewshed, if applicable.
The visibility of the Viewshed, if applicable.
The zoom level at which the Viewshed becomes visible, if applicable.
The font properties of the asset label.
The horizontal alignment for the asset label. The options are: Left, Center, Right.
The Label is pre-populated by the selected object but can be customized.
The Label Halo creates an area of different color around the characters in a label to provide better visibility.
Determines the Offset of the asset label.
Determines the Visibility of the asset label.



Leader Line Color	If the label is offset from the asset using the Offset properties, a leader line can connect the label with the asset. The Line Color property determines the color of the line.
	If the label is offset from the asset using the Offset properties, a leader line can connect the label with the asset.
Show Leader Box	Determines if a line shall be painted around the label for greater visibility.
Vertical Alignment	Determines the vertical alignment of the label.
	Determines if label text should be wrapped if longer than the specified width.

### Location Dots

When visualizing multiple locations on a fixed size map, you can reduce the fixed size icon to a point on the map to control the zoom level point at which the transition occurs. Comparison of Location Dots (Left) with Location Icons (Right) is shown below.



The above figure illustrates the challenges of visualizing multiple sites close to each other on a map scene. The image on the right shows that the icons for Wroughton Office and Newbury Office overlap each other, and it is unclear where they are located.

As the icons are presented with an absolute size, the visibility deteriorates the further out of the map you zoom, and the map appears smaller, even though each icon stays the same size.

When the icon is replaced by a colored dot at the selected zoom point of the map, it improves the visualization of locations on the map especially where a large geographic area is covered.

Locations are assigned a color based upon the Location Type commissioned for that Location. This setting is available within the Location Property Grid and consists of a pre-defined list of Location Types.



Properties - (Security Operations Centre)				
	2↓ 🖻			
05.	Address 2			
	Address 2 Address 3			
	Country			
	County			
	Postal Code			
	Postal Town			
	Time Zone			
	Contact			
⊿	Fax Number			
	Internal Dialing Number			
	Phone Number Radio Channel			
⊿	Details			
	Default GUI	24. 7.45		
	Live Video Schedule	24 x 7 Allow		
	Location ID	D. 4 h		
	Location Type	Building 🗸 🗸		
	Manned Location	Other		
	Max Concurrent Connect	-		
	Max Concurrent Exports			
	Max Export Duration	Site		
	Max Export Filesize	Building		
	SLA Time	Floor Room		
	Video Export Schedule	Zone		
	Video Playback Schedul	Zone Customer		
⊿	General Settings			
	Created	9/13/2016 2:34 PM		

For each of the defined Location Types, Control Center specifies a default color to be used as the point color for that location on a map.

The following table lists the default colors for location types.

Location Type	Color	RGB / Hex
Other		113,51,155 / #71339B
Country		0,154,0 / #009A00
Region		102,51,0 / #663300
Site		255,102,0 / #FF6600
Building		0,176,240 / #00B0F0
Floor		0,0,0 / #000000
Room		127,127,127 / #7F7F7F
Zone		192,0,0 / #C00000
Customer		68,114,196 / #4472C4

The list of Location Types and the default colors for each type are not currently editable by users or commissioning engineers.



On a scene-by-scene basis, the user can change which colors are used for the Location Types using the Entity Layers Dialog on the scene.

#### **Alerting Location dots**

When a Location is displayed as a Location dot, Alert States continue to be displayed against the Location. However, if the Location that is displayed as a Location dot, the Alert State Property icon is ignored while the Location is displayed as a dot. If the user returns to a zoom level where the icon for the Location would be displayed, the Alert State icon will appear. Note that this applies to Alarm Alert States and Manual Alert States.



#### Location Dots Indicate Online State Change

The Location dot will show as grey if the Location is offline due to a communication issue between the sites. The following figure shows the Wroughton Office and Newbury Office online, where blue dots on the left indicates that the Federation Service is enabled and grey dots on the right after the Federating Service is disabled.



### Map Labels

You can add labels to a scene to add more descriptions to a map or floor plan.



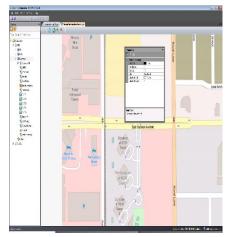
You can add a label in the same way as a Hot Zone or an Asset Geometry.

To add a Label, right-click on the scene and click **New** > Label.





Once a label is added, it can be configured using the properties in the property grid.



A label will persist its size through the zoom levels. That is, regardless of the zoom level, the label will always be of the same size.

In addition, the zoom feature in the Entity Layers dialog can be used to:

- Make sure the map is not cluttered when you zoom out.
- Adjust the zoom levels at which the labels should appear for a scene. To do this, click on the map surface and then select the Layers property in the property grid.
- Adjust the visible range for the labels layer using the slider.

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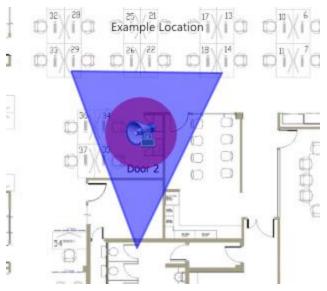
		Activate	the Entity Layers Dia	log	⊿	Appearance Alarm Stack View	v O All			
Entity Typ	pes			-		Enable Hover Via	deo Fals	e		
E O I						GIS Layers		to edit		
Entity Layers 🕇						Layers	Click	c to edit		
Name	Visible		Visi	ble Range			Poin	t		
Location:Other	1	<u> </u>						Color sel each loca		
Location:Country		<u>&amp;</u>						on this so		
Location:Region		<u>&amp;</u>							=	
Location:Site	$\checkmark$	<u>&amp;</u>								_
Location:Building	$\checkmark$	<u> </u>							4	ì
Location:Floor	$\checkmark$	<u> </u>								_
Location:Room	•	<u> </u>								ļ
Location:Zone	1	<u>&amp;</u>								
Location:Customer		<u>&amp;</u>								
Device:Camera		<u>&amp;</u>								
Device:Door		<u>&amp;</u>								
Davias-Pandar									-	
Current Zoom:	634066.1	×					Zoom	Controlle	er	
Overlay Layers										
Name	Visible		Visi	ble Range					1	
										ł
Background Layer										
OSM L	aver							•		
20111										

## **Using Map Annotations**

You can draw shapes and add labels to geographic and schematic scenes in Control Center. Map annotations can be added from the map GUI.

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This is useful if you need to share a map with others in your organization and you want to highlight specific areas and provide more information about areas of interest on the map, like an oil spill, for example.

Map annotations are created on the scene and represented as an object in System Configuration in the same folder as the scene where you created the map annotation.

Note:

- In a federated system, you can see map annotations that have been created on remote sites. However, you cannot publish map annotations to remote sites.
- If you have created a map annotation, the map annotation is displayed on all Control Center clients connected to your Control Center server.

#### Map Annotation Permissions

You can configure map annotations if you have, both:

- Permission to the map you want to add an annotation to.
- The Map Annotation type permission. See <u>Type Permissions</u> for more information.

#### Adding Labels to Maps

To add a label to a map:

- 1. Go to the map GUI.
- 2. Select from the toolbar.
- 3. From the drop-down list, select Label.
- 4. Select the map where you want to place the label.
- 5. Edit the text.
- 6. Select for confirm the label.

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**Note**: You cannot make any changes to an existing label. If you want to make any changes, you must delete the existing label and add a new label to the map.

### Adding Shapes and Lines to Maps

To add shapes or labels to maps:

- 1. Go to the map GUI.
- 2. Select from the toolbar.
- 3. From the drop-down list, select Line or Polygon, depending on your requirements.
- 4. Select the map where you want the line or polygon to start.
- 5. Select the map again where you want the line to end or where you want the next part of the polygon to be.
- 6. If you are creating a polygon, repeat step 4 until you have created your polygon.
- 7. Select for confirm the line or polygon.

**Note**: You cannot make any changes to an existing line or polygon. If you need to make any changes, you must delete the existing line or polygon and add a new line or polygon to the map.

### **Deleting Annotations from Maps**

To delete an annotation from a map:

- 1. Go to the map GUI.
- 2. Select the line, polygon or label you want to delete.
- 3. Right-click and select Delete.

## Show or Hide Viewsheds

You can show or hide device coverage area by showing and hiding the coverage area for one or more devices.

The context menu supports a universal option for viewshed display on all 2D schematic and GIS scenes. The context menu shows the following options, in addition to the appropriate operator actions and the context menu controls that appear when you right-click on a 2D scene.

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The context menu options change, depending on the actions you select. For example, if you select **Hide a Viewshed** and the viewshed is hidden, then **Show Viewshed** context menu option appears.

Note that the default state of the viewshed visibility will not change from how it has been set in the properties for a scene. That is, when the scene is opened and closed and then re-opened, the viewshed visibility reverts to the commissioned defaults.

## **Get Nearest Cameras**

You can get the nearest cameras mapped on Scenes using the Get Nearest Cameras option in the context menu. For a Schematic Scene, the calculation is based on simple geometric distance from the point clicked on the map. In a GIS scene, an absolute distance can be calculated based on the distance units for the map.

## Viewing Recent Events and Alarms

You can check the latest events and alarms sent from your devices using **Recent Events** and **Recent Alarms**. These viewers are available from within System Explorer and maps.

You can view an event history for:

- Individual devices
- Device shortcuts
- Locations, and all devices within the selected location
- Asset groups, and all the assets within the selected asset group
- A group of devices, locations, or asset groups that you have selected.

To do this:

- 1. Go to System Explorer on the Main screen.
- 2. Find the device whose alarms or events you want to view. You can either:
  - navigate to the device you want from **Locations**
  - find the device on your map.



- 3. Right-click on the individual device, location, asset group or group of devices and select, either:
  - View Recent Events, or,
  - View Recent Alarms,
- 4. Select the time period whose events you want to display.
- 5. Optionally, you can configure a more specific time using **From date** and **To Date** in the **Recent Events** or **Recent Alarms** window, depending on what you selected in step 2.

Locations 4	System Main						
Site A		h Millillillillilli		///			
Type Search Text Here	Recent Events for 'Build	'ng 11'					_ 🗆 ×
<ul> <li>Training</li> </ul>	From Date 11/21/2019 10	:10:50 III To Date 11/22/2019 10:10:50 III	Refresh				
🔺 🔚 UAE		10.50 10 Date 11/22/2019 10.10.50	Kellesi				
✓	Received Date Time * <b>T</b>	Description	Y	Alarm Point 🛛 🔻 🔻	Location	T Event Count	▼ 1
CNL-DOOR-07	11/21/2019 11:49:20 AM	Device State Changed		UK-CAM-03-Building Lobby	Building 11		
CNL-DOOR-08	11/21/2019 11:49:20 AM	Device State Changed		UK-CAM-06-Lift Lobby	Building 11		
CNL-DOOR-09	11/21/2019 11:49:20 AM	Custom State Changed		CNL-DOOR-02	Building 11		
VAE-CAM-01-Courtyard N	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-02	Building 11		
UAE-CAM-01-Courtyard F	11/21/2019 11:49:20 AM	Custom State Changed		CNL-DOOR-06	Building 11		
UAE-CAM-03-Fence Zone	11/21/2019 11:49:20 AM	Custom State Changed		CNL-DOOR-05	Building 11		
UAE-CAM-04-Fence Zone	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-06	Building 11		
😴 UAE-CAM-05-Warehouse	11/21/2019 11:49:20 AM	Custom State Changed		CNL-DOOR-04	Building 11		
🍕 UAE-CAM-06-Warehouse	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-04	Building 11		
⊳ 🚟 ∪к	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-05	Building 11		
	11/21/2019 11:49:20 AM	Custom State Changed		CNL-DOOR-03	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		UK-CAM-02-Building Entran	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-03	Building 11		
	11/21/2019 11:49:20 AM	Custom State Changed		CNL-DOOR-01	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-01	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		UK-CAM-04-Sales Corridor	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		UK-CAM-05-Front Door	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-03	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-02	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-04	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-06	Building 11		
Locations	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-01	Building 11		
	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-05	Building 11		
Tile Lavouts	11/21/2019 11:49:20 AM	Device State Changed		CNL-DOOR-03	Building 11		
	11/21/2019 11:49:19 AM	Device State Changed		CNL-DOOR-04	Building 11		
Sequences	11/21/2019 11-49-19 AM	Device State Changed		CNI-DOOR-02	Building 11	1	
	15 Alarm Points						34 Event

## **Taking Snapshots From Maps**

You can take a snapshot of a map in Control Center, in the same way that you can take a snapshot of a video. (See <u>Snapshots From Video</u>). This is useful if you want to send a snapshot to a third party or if the snapshot is required in another company's system, for example.

As well as taking a snapshot, you can also change the snapshots appearance. For example, you can highlight areas of the map, add text, resize the snapshot or add effects.

The snapshot can be:

- saved to disk
- saved as a media file in Control Center
- attached to an alarm



The options that are available to you when you select **1**, depend on how your Control Center Administrator has configured how snapshots can be used in Control Center. This means that you may not have some of the options described below. See <u>Configuring Snapshots in Maps</u>.

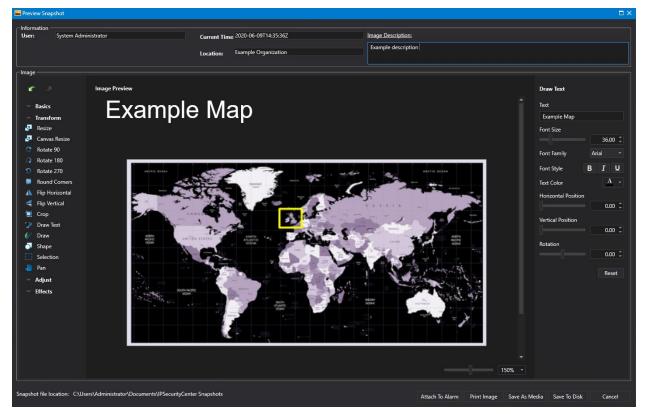
#### To take a snapshot from a map:



- 1. From **System Main**, select **1**. The **Preview Snapshot** dialog displays. The **Information** panel displays:
  - o Username of the user who created the snapshot
  - o Current Time the snapshot was created
  - Location in Control Center where the snapshot was taken.
- 2. Optionally, add an Image Description for the snapshot.
- 3. Use the tools in the **Image** panel, to make any changes required to the snapshot.

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- 4. Select **Snapshot File Location** to browse to the location where you want to save the file.
- 5. Select one of the following:

Option	Description				
	Attach the snapshot to the alarm that is currently being handled. <b>Attach to Alarm</b> is only available if you are handling an alarm in Control Center.				
	The snapshot is saved in the <b>System Configuration</b> > <b>System</b> <b>Objects</b> > <b>Alarm Media</b> folder. In a federated system, once the snapshot is saved as a media object, you can publish it to other sites in your federated system, if required.				
Attach to Alarm	If you have process guidance configured, you will see <b>Map</b> <b>Snapshot</b> or <b>Camera Snapshot</b> in the alarm activity grid when you are completing the alarm resolution form.				
	Notes:				
	• You can attach multiple images to the same alarm as long as the alarm is in a handled state by your current user.				
	• You cannot have more than one alarm handled by the same user in Control Center.				



	• The snapshot is saved to the [Alarms].[AlarmActivity] table in the Control Center database.
Print Image	Print the snapshot.
Save As Media	Save the snapshot as a media object in Control Center. When a snapshot is saved as a media object, it is stored in <b>System</b> <b>Configuration &gt; User Objects &gt; Snapshots</b> folder. For federated node sites, snapshots stored with the user objects folder are federated to any configured hub.
Save to Disk	Save the snapshot to the location you specified in <b>Snapshot File</b> Location. See <u>Configuring Snapshots in Maps</u> .
ll ancei	Close the <b>Snapshot Preview</b> dialog without saving the snapshot.



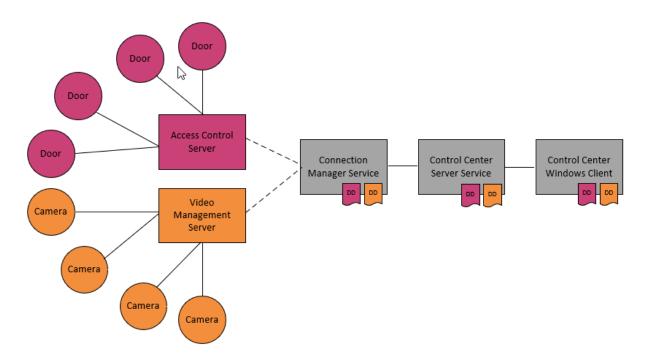
## Devices

Devices in Control Center are used to represent physical systems as objects within the solution. Objects added to represent devices can then be used through the solution to provide interaction with the available devices.

For example, a device might be added into the solution to represent a video management server and then multiple connected devices can be added to represent the cameras. The cameras can then be represented on the available maps as icons, dragged out to view video, controlled by the user to view recorded video, used in a video export job to archive recorded video to disk, etc.

As well as user interaction, logic within the solution can also be configured to interact with the available devices. For example, the Alarm Types service could be configured to create an alarm when an event is received from a device, or a response plan could be configured to automatically PTZ a camera when a user handles an alarm.

As discussed in the Understanding Device Connectivity section, connectivity to the available subsystems is achieved using different Control Center components with the addition of device driver packages which are written specifically for the different types of devices to be connected.

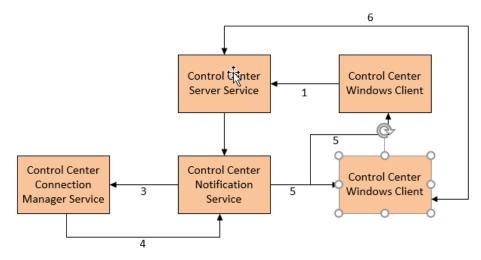


## **Device Driver Loading Process**

Before a device is added into a solution, the corresponding device driver must first be installed using the System Configuration window.

The diagram below details the process for installing device drivers into a Control Center solution.





- 1. The device driver is installed using the Device Driver Manager option within the System Configuration window. The driver package is then sent to the Server service.
- 2. The Server service receives and loads the newly installed device driver and then informs the Notification service of the update.
- 3. The Notification service will then notify the Connection Manager that a new device driver is available for download.
- 4. Once the Connection Manager has downloaded the new device driver, it will instruct the Notification service that the new driver has been loaded and read for use.
- 5. The Notification service will then notify all clients in the solution that a new driver has been loaded.
- 6. Any clients without a copy of the new device driver will then download the new driver from the Server service.

Note: Drivers also support specifying custom state change event times as well as other events to support reporting of sub-system time in Alarms and Alarm reporting.

## **Loading Connection Managers**

The Control Center Connection Managers are automatically loaded into the Services folder when the service is started. The installer will configure the Connection Manager with the location of the Control Center Server. Once both the Connection Manager and Server services are running, the Connection will automatically add a record for itself as shown below.

Overview - Sei	rvices		-
		Search in Services	P
Label	<ul> <li>Description</li> </ul>	Туре	
Connection Man	ager		
🗉 퉳 Default	Connection Manager service	Connection Manager	

## Installing a Device Driver

Device drivers can be loaded into a solution using the **Device Driver Manager** dialog in **System Configuration**.



To load a single device driver:

- 1. Open the **System Configuration** window and on the toolbar, click Privers
- 2. Click <sup>& Install</sup> .
- 3. Navigate to the .ipscdriver file and then click **Open**. The device driver will be loaded and then shown within the **Device Driver Manager**. Expanding the driver package will show the different types of devices available within the package; for example, the TrainingVideoServer package contains information for both the Training Server and the Training Camera.

🇄 Open		×
• 4.7.4.520	6.02 🔻 🚱 Search	2
🕒 Organize 👻 📗 Views	▼ 📑 New Folder	0
Favorite Links  Eacord Links  Computer  Computer  Documents  Pictures  Kusic  Recently Changed  Searches  Lublic		≗modified   •  Type 14/2013 10:51 IPSC
Folders	CNL.IP SecurityCenter.Driver.TrainingVid Connection Mac	anager Device 💌

4. The device driver is loaded and then shown within the Device Driver Manager. Expanding the driver package shows the different types of devices available within the package; for example, the *TrainingVideoServer* package contains information for both the Training Server and the Training Camera.

Name	Version	Additional Information
Installed Device Driver Packages		
CNL.IPSecurityCenter.Driver.TrainingDriver	3.5.0.58618	
🛒 Tracking Camera		
Training Door		
Training Camera		
Training Server		

## **Adding Devices**

Once the Connection Manager is running and the device driver is loaded, a device can be added into the solution. Typically, the parent device for example, a video management server (VMS)) is added first, which then automatically adds all the child devices (for example, all cameras connected to the VMS).

# everbridge<sup>®</sup>

Devices can be added via the context menu or via a connection manager. All devices must be associated with a Connection Manager, therefore when adding a device using the context menu a connection manager must be specified.

To add a single device (using training server as an example):

- 1. Open the **System Configuration** window.
- 2. Open the Add Device Wizard using one of the following methods:

The Add Device Wizard appears.

- In the **Overview** pane, right-click a **Connection Manager** and click **Add Device**.
- Right-click anywhere in the Overview System Objects tab and click New > Device On > Connection Manager.
- 3. Click **Start** to continue.
- 4. On the **Select the type of device to add** page, select the **Training Server** device type and then click **Next** to continue.

Add new d	evice			×
Colored the	Add Device wizard	I		
Quantity				
	Device Type 🔺	Category	Manufacturer	
Device	Training Camera	CCTV	CNL	
Device	Training Server	CCTV	CNL	
	Product Information	Manufacturer Website Manufacturer Support Product Information Training device with simulated events a	and video.	
			Next >	Cancel

5. Enter the details for the device, then click **Finish** to add the device. In the following example, the connection details are taken from the training server RDIN, however these details would differ from user to user.



new d	evice				
The p	Add Device			_	
	nport CSV				
	Label	IP	Port	User Name	Password
•	Training Server 1	127.0.0.1	80	cnl_acs	•••••
				< Back	Finish > Cancel

6. Enable the device by setting the **Enabled property** to **True** in the property grid or by rightclicking the device and clicking **Enable**. This will initialize the device and add any connected devices.

You can also enable and rename the devices, if required.

**Note**: Devices must always be enabled for it to raise events. Care must be taken to enable all devices that needs to be monitored by the Control Center, as disabled devices do not raise any events.

	1	
Trai	ining Camera	
H 🗐	Camera 1 on Video Server on Training Server	1
_	Camera 2 on Video Server on Training Server	
o 🧋	Camera 3 on Video Server on Training Server	1
Ð 🗐	Camera 4 on Video Server on Training Server	1
± 💗	Camera 5 on Video Server on Training Server	1
± 💗	Camera 6 on Video Server on Training Server	1
Ð 🗐	Camera 7 on Video Server on Training Server	1
Ð 🛒	Camera 8 on Video Server on Training Server	1
± 💗	Camera 9 on Video Server on Training Server	1
Trai	ining Server	
± 🥡	Training Server 1	

**Note**: Folders should be used to contain related objects to provide a logical system structure. Create the required folders for new devices and drag the newly created devices into them.



### **Device Driver Control of Device Label**

From DDK 3.1 onwards, the underlying sub-system allows changing of the label on a device in Control Center. This also prevents the users from modifying the device label in Control Center.

To test this feature, use the device called Training Clock in the Training Server Device Driver.

Training Clock			
🔲 🔲 0.15.44 DM	Clark for training conver device	Training Clock	10/01/2016 2015 4

## Ability to Determine a Parent Device

You can determine the parent object to which the camera or any other device belongs to, by expanding the **System Configuration** > **Device Name** > **Interfaces** section.



## **Driver Version Compatibility**

From Control Center 5.2 onwards, drivers compiled for DDK 3.0 and DDK 3.1 co-exist on a single system. This functionality is supported such that drivers compiled against an earlier version of the DDK can co-exist with drivers compiled against a later version.

This support is limited to situations where the major versions of the DDKs are the same. For example, DDK 3.1 and DDK 3.0 drivers will work, but DDK 3.1 and DDK 2.4 drivers will not work.

## Viewing Add-Ons

The Drivers & Extensions Manager enables you to view the different add-ons currently installed within Control Center. An **Add-ons** tab allows you to determine what add-ons are supported within Control Center and distinguish between the add-ons that contain proprietary software developed by a third-party. For example, if a third party add-on is being used in Control Center, it lists the name of the vendor in the details section.

To view add-ons:

- 1. Open the System Configuration window and on the toolbar, click Drivers & Extensions. The Device Drivers page appears.
- 2. Click the **Add-ons** tab. The add-ons are displayed along with the package and type information. The **Add-ons** section also lists any additional dependencies below the add-on type.



ld-ons					
me		Version	Author	Additional Information	
0-0	alled Add-ons				
4	By Addon Package				
$\triangleright$	Client Themes	5.8.0.0	CNL Software Ltd		
$\triangleright$	Dashboards	5.8.0.0	CNL Software Ltd		
$\triangleright$	DataSourcesBuiltIn	5.8.0.0	CNL Software Ltd		
$\triangleright$	HotKeys	5.8.0.0	CNL Software Ltd		
$\triangleright$	MobileClient	5.8.0.0	CNL Software Ltd		
$\triangleright$	SiteReferences	5.8.0.0	CNL Software Ltd		
$\triangleright$	System	5.8.0.0	CNL Software Ltd		
$\triangleright$	TimeBarAlarms	5.8.0.0	CNL Software Ltd		
$\triangleright$	TimebarEvents	5.8.0.0	CNL Software Ltd		
$\triangleright$	TimeBarVideoExport	5.8.0.0	CNL Software Ltd		
$\triangleright$	TimeBarVideoLoop	5.8.0.0	CNL Software Ltd		
⊳	WindowsClientTemplate	5.8.0.0	CNL Software Ltd		
4	By Addon Type				
$\triangleright$	Add-on Object				
$\triangleright$	Add-on Property Extender				
$\triangleright$	Add-on User Interface				
$\triangleright$	Client Action				
$\triangleright$	Client Manager				
$\triangleright$	Data Source				
⊳	Data Source Designer				
⊳	User Interface Designer				
⊳	Video Extension				

**Note**: The same dialog is used for installing and configuring device drivers in Control Center.



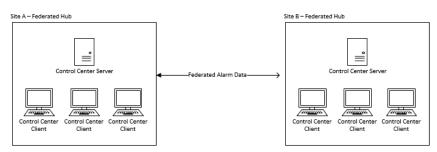
## **Federated Control Center**

Federated Control Center enables users of one instance of Control Center to handle and manage alarms generated from another instance of Control Center. It supports sharing alarms, devices, events, locations, and other relevant data synchronized. A federated instance of Control Center can be configured as a federated Hub or a federated Node.

A federated Node site is characterized as a sender of Alarm data to a federated Hub. A federated Hub can receive Alarm Data from any number of connected federated Nodes and may also send Alarm Data to another Federated Hub.

The main objective of federated Control Center is to support the following requirements:

- Each site must be able to work independently of the other
- Alarms at one site should be handled by users at another site
- Devices at one site should be visible to users at another site
- Publishing configuration objects (for example, Response Plans) to remote sites



An alarm does not exist in isolation from the rest of the Control Center eco-system, therefore all the components required to manage alarms at a remote site are made available from the Node (Site B in Simple Federated Alarms figure) to the Hub (Site A in Simple Federated Alarms figure).

In addition to the alarm information, each site will also include a set of commissioned workflows, graphical user interfaces, and user and client data that are required through the lifecycle of the alarm.

## System-to-System Communication

When two independent installations of Control Center are configured to share content, the following process occurs:

- **Negotiation Phase** Establishes that there is another system correctly configured and ready to begin communications.
- Initial Synchronization Phase Ensures that all prerequisites needed for the two systems to share information have been passed between the sites. Once all the required content has been shared between the sites, alarms can then be synchronized by the on-going synchronization process. The initial synchronization phase is also responsible for determining whether there are historic alarms to be synchronized. Where historic alarms exist, they are batched up and transferred to the federated Hub to ensure that current or newly created alarms are not impeded.



• **On-going Synchronization Phase** – Keeps the synchronized content current at each site and ensures new alarms are immediately communicated to the Hub. Heartbeats are sent between the sites to ensure communication status between the sites can be monitored.

If the connection between the Hub and Node sites is interrupted, the systems will continuously attempt to reconnect with each other until the connections are disabled.

After the connection is re-established, the same process will be followed. The Initial Synchronization phase will only re-synchronize changed items and will not perform a full Synchronization.

## Alarm Synchronization

In a federated system, the Node sites send Alarms to the Hub sites. Therefore, the base alarm information, additional components, and the associated data must be transferred between the sites.

When configuring a federated Control Center environment, a site may be configured as a federated Node or a federated Hub.

- Federated Node(Sender) Can only send alarms to any number of sites configured as Hubs.
- Federated Hub(Receiver) Can receive alarms from any number of federated Nodes. In addition, a Hub can also send its own alarms to other Hubs.

Control Center does not support sending and receiving alarms from the same remote site.

Federating content between sites does not indicate exchange of equal information between the sites. Typically, a Hub site that handles alarms on behalf of a Node site receives more information than it sends.

The components that make up an alarm are:

- The alarm itself
- The events that make up the alarm
- The devices that send the events
- The folders that provide context to the hierarchy of the site generating the alarms
- The locations where the devices are stored as these may be alarm points for the alarm
- Any Placeholders as these may be used as alarm points
- The users at the Federated Node so that when alarms are handled by a user at the Node site, the Federated Hub can interpret which users handle the alarms
- The Windows clients at the Federated Node so that when handling alarms at the Node site, the Federated Hub can interpret where the alarms are being handled
- The Date/Time schedules that could impact how the alarm behaves through the lifecycle of the alarm
- The alert states associated to the alarm so that the alarm can be displayed in visual form

Although not directly related to the handling of the alarm, the following items are also synchronized to provide a visual context of the alarm.

- The scenes that include where the devices are plotted
- The media objects and hi-res images that are used for schematic and 3D scenes



• The GIS maps service information that is used for geographic scenes

In Control Center, a site configured as a Federated Node sends the following object types from the local store to a configured Federated Hub:

- Alert States
- Contacts
- Contact Groups
- Date/Time Schedules
- Devices
- Folders
- Locations
- Media Objects
- Placeholders
- Scenes (Schematic and Geographic)
- Site References
- Users
- Windows Clients
- 3D Scenes (where 3D capability is included)

A Federated Hub site sends the following object types back to the Federated Node:

- Folders
- Locations
- Users
- Windows Clients

These objects are stored in the Federated Sites folder under the remote site that owns the content.

Federated sites can run independently of each other, therefore, a break in connectivity between the sites will not impact normal operational use of Control Center. When connectivity is restored, the Node site will begin synchronization of any alarms that were resolved during the outage. During this process, periodic checks for new alarms are made and any new alarms are synchronized immediately.

## Federated Alarm Types

In addition to the base objects required for synchronizing sites that federate alarm data, the Hub requires the Alarm Types object, which represents the alarm logic that the Node site uses to evaluate whether to create an alarm or not. Instead of copying the entire Alarm Types Object to the Hub, individual Alarm Type definitions are added to the system Alarm Types Object that already exists on the Hub site.



Overview - System Objects 🔗 Alarm Types Alarm Types Alarm Stack Views					
🔮 Alarm Types					
	Label	Enabled	Description	Site Name	
😭 127 🗈	7 Test	True	Test	London	
🗉 🤗 128	Local Alarm	True	A local alarm	Local	

The originator of the Alarm Type definition can be viewed in the Alarm Types tab by opening the object and comparing the Site Name property.

All Alarm Types that originate from the local server will be labelled as Local. Any Alarm Types that originate from any remote site will be labeled with the name of the site. The name for each site is taken from the label of the Remote Federation Service object that links the sites together.

The logic for creating the alarm is evaluated at the site that owns the device generating the event which is typically the federated Node.

Each individual Alarm Type describes the conditions for creating the alarm, how the alarm point is determined, how the alarm will be described in the alarm stack as well as defining what happens at the various points of the alarm lifecycle.

The Alarm Type defines the Alarm Actions that will be executed when:

- Creating the alarm
- Handling the alarm
- Modifying the alarm
- Resolving the alarm
- Using the Alert State for alarm creation

On the Federated Node site, Alarm Actions are used to define how an alarm is handled on the site that is local to the Alarm Types object.

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🔮 Alarm Types Wizard		-		×
Collation & Alarm	Actions			
Collation: Collate by Loc Collate by Ala Collate by Ala Collate by Trai	rm Point rm Type :k ID		~	
Alarm Actions:	n ropery.			
Alarm Created:	ঝ Template Handled VRP			
Alarm Handled:	🎨 Template Handled VRP			
Alarm Modified:	🐝 Template Handled VRP			
Alarm Resolved:	🐝 Template Handled VRP			
Alert State:	🞯 Flashing Red			
Threat Level:	No change		~	
Allow Bulk Reso	lving			
	< Back Next	>	Can	cel

A Hub site that is remote from the Node site where the alarm originated may have different physical or geographic constraints when managing alarms. However, in Control Center, the Alarm Actions for an Alarm Type that originates from a Federated Node site can be modified to suit local requirements.

To modify the Alarm Actions for an Alarm Type, open the local Alarm Types object on the receiving site and edit the appropriate Alarm Type Definition to call the required Response Plans. When editing an Alarm Type from a remote site, all response plans are reset to None Set regardless of what was defined at the Node.

This allows configuration of appropriate responses to the various stages of the alarm lifecycle.

## Setting Up a Simple Federating Control Center Environment

Configuring a simple environment that includes Alarm Synchronization between two sites requires that both sites are licensed to run Federated Control Center and the Federated option must have been selected during the installation process as shown below.



付 Control Center Set	tup			_	□ ×	
Custom Setup Select the way you	u want features to be insta	lled.			类	E
Click the icons in t	he tree below to change the	e way	features will	be installed.		
	ontrol Center Server onnection Manager (Defau larm Types deo Export Service IS Service ederating Service uditing Service emote Deployment Tool	<b>^</b>	This feature hard drive.	e requires 25M		
Reset	Disk Usage		Back	Next	Browse	 
Reset	Disk Osage		Dack	NEXL	Cancer	1

The Federating Service handles the communication between this server and all remote servers. The Federating Service must be running on both machines for the sites to Federate with each other.

The Federating Service object within System Configuration contains information related to the instance of Control Center that it is installed on.

To view this information, open System Configuration and click the Services > Federation Service object. An entity called Remote Federating Service object already exists in the system to store the Federating information about the remote site.

Folders	Overview - Services				
Entire IPSecurityCenter Enterprise					
Federated Global Share Federated Global Share Federated Global Share	Label 🔺	Description	Туре	Last Modified	E
ie 🦓 Shared to this site ie 🎲 Federated Sites	Connection Manager Service				
	Connection Planager Service				
E Gomputers	🗷 🛃 Default	Connection Manager Instance 'Default'	Connection Manager Service	8/17/2016 9:34:41 AM	
Data Connections           Image: Connection in the second	Core Service				
ia - a Media ia - a My Locations	🗉 🛃 Core Service	Core Service	Core Service	8/17/2016 9:34:23 AM	
Newbury Office     Wroughton Office	Federation Service				
Services	Federation Service	Federation Service	Federation Service	9/14/2016 8:42:33 AM	
iaCaa System Objects iaCaa Unknown Location	Geographic Information Service	2			
i⊞ – 🤤 User Objects ⊞ – 🧊 Users	🗉 👔 Geographic Information Service	Geographic Information Service	Geographic Information Se	8/17/2016 9:34:41 AM	
🗄 🖓 Web Objects	Monitoring Service				
	🗉 顾 Monitoring Service	Monitoring Service	Monitoring Service	8/17/2016 9:34:41 AM	

To successfully establish communication between two sites, each site must have a Federating Service and a Remote Federating Service.



## **Federating Service Object**

As part of the Federating Service object, the following properties are available.

Label	Description	Type	<ul> <li>Last Modified</li> </ul>	Extra Information		Connection Settings	
							hostname.dev.cnluk.com
Federation Service						Load Balanced Port Number	9901
						Password	•••••
Federated Service	Federation Service	Federation Service			4	General Settings	
							Alarm Types Service
						Core Service	Core Service
							4/18/2016 9:20 PM
						Description	Federation Service
						Enabled	True
						Environment	Production
						GeographicInformationService	Geographic Information Service
						Label	Federated Service
						Notification Service	Notification Service
						Owner	System
						Rules Engine Service	Rules Engine Service
						Schedule	No schedule set
						Tag	
					0	Permissions	
						Security	Security Settings

#### **Connection Settings Properties**

- Load Balanced Host Name The fully qualified name for the server address. This value is determined automatically as the HOSTNAME reported by the operating system. This value cannot be changed by the user. When connecting to this server from another, use this value as the Host Name to connect to.
- Load Balanced Port Number The port that the Federated service used to communicate on. This is currently a hard-coded value that cannot be changed without contacting <u>CNL</u> <u>Support</u>.
- **Password** Any remote instance of Control Center that wishes to share data with this site must include this password as part of the Remote Federating Service Object configuration.

#### **General Settings Properties**

The following General Settings are automatically configured when the system is set up to federate with another instance of Control Center. Everbridge recommends that the following default values are not changed:

- Alarm Types Service The Alarm Types Service that is running on the local server.
- **Core Service** The Core Service running on the local server.
- **Geographic Information Service** The Geographic Information Service running on the local server.
- Notification Service The Notification Service running on the local server.
- **Rules Engine Service** The Rules Engine Service running on the local server.

The rest of the settings are standard Control Center settings, which include **Created**, **Enabled**, **Environment**, **Label**, **Description**, **Owner**, **Schedule**, and **Tag**.

#### Permissions

You can control which users have the Read, Write, or Execute permissions on the Federating Service Object using the standard Control Center controls.

#### **Object States and Statuses**

The Federating Service object can be enabled or disabled using the standard Control Center controls.





When enabled, the Federation Service will accept incoming data from, and send data to other remote sites through appropriately configured Remote Federation Service objects. If an exception occurs, the Federation Service will remain Enabled, but may revert to an Offline state.



A disabled Federation Service does not attempt to send or receive information from remote sites.



E Federation Service

A Federation Service object can also be enabled and offline at the same time, for example, when the service is trying to communicate and encounters an exception. The most common exception is that the Federating module is installed but not licensed correctly. Check the Federated Server in the Computers folder for further information.

Federation Server

### **Remote Federating Service Object Properties**

You can create a new Remote Federating Service object by clicking **New**> **Remove Federation Service**. This object stores the connection details for the remote site.

			Folder	
		8	Location	
		-	Shortcut	
			3D Scene	
		C7	Alert State	
			Asset Group	
		2	Contact	
		32	Contact Group	
			Data Connection	
8	Search	P	Date Time Schedule	
		1	Device On	×
	New	' 💟	Display Area	
3	Import		Graphical User Interface	
1	Refresh	22	Group	
			Media	
		P	Placeholder	
			Remote Federation Service	
			Report Template	
		₹4	Response Plan	
		9	Scenes	×
		1	Sequence	
		10	Site Reference	
		<b>#</b>	Tile Layout	
		Ø	Timer	
_			Trigger	
		8	User	

After creating the new object, complete the appropriate properties, for example, which remote Host to connect to, the Local Core Service, and Federating Services.

Label [ Remote Federation Service B New Remote Federation Service. 1			Arch in Federation  Last Modified  5/9/2017 4:22:10 PM	Extra Informa	4	Connection Settings Load Balanced Host Name Load Balanced Post Number Password Remote Tenant Id Role General Settings Core Service	9901 Uriknown
Remote Federation Service				Extra Informa	4	Load Balanced Host Name Load Balanced Pott Number Password Remote Tenant Id Role General Settings	
	Remote federation Service	Remote Federation Service	5/9/2017 4:22:10 PM			Load Balanced Port Number Password Remote Tenant Id Role General Settings	
	Remote federation Service	Remote Federation Service	: 5/9/2017 4:22:10 PM			Password Remote Tenant Id Role General Settings	
🗄 🧃 New Remote Federation Service 🖇	Remote federation Service	Remote Federation Service	5/9/2017 4:22:10 PM			Remote Tenant Id Role General Settings	Unknown
New Remote Federation Service Federation Service Federation	Remote federation Service	Remote Federation Service	5/9/2017 4:22:10 PM			Role General Settings	Unknown
						General Settings	Unknown
				I		Core Service	
				I		Created	5/9/2017 4:26 PM
						Description	Remote federation Service
				I		Enabled	True
				I		Environment	Production
				I		Federation Service	
				I		Label	New Remote Federation Service
				I		Owner	Administrator
				I		Schedule	No schedule set
				I		Tag	
				I	⊿	Permissions	
				I		Security	Security Settings

Time	The local time of the message.
	The source of the message that may refer to an RFS or the Hostname stored within the Federation Service.
Message	The details of the message.
Operation	The operation type the message refers to.



ISTATUS	This provides additional information on the operation that is being performed.
Mode	Provides a description to indicate whether the message describes a Send or a Receive operation. None may be shown for status update messages.

### **Connection Settings Properties**

- Load Balanced Host Name: The address of the remote computer that is being connected to. This information is stored in the Federating Service object properties on the remote computer.
- Load Balanced Port Number: A read-only value for the port number that will be used to communicate with the remote machine. Changes to which port is used for communication may be made with support from Everbridge.
- **Password**: The password required to connect to the remote machine. This value must match the password set on the Federating Service on the remote system.
- **Remote Tenant ID**: The unique identifier that identifies the content from each remote site. It is not editable and is provided for information and diagnostic purposes only.
- Role: This property defines whether the Remote Federating Service object acts as a Sender or Receiver of alarms. Federated Node sites must be configured with the role set to Sender. This will send alarms and event data associated to Alarms to the Federation Service of the specified Hub. Federated Hub sites must be configured as Receiver. This will receive alarms and event data from the Federation Service of the specified Node. When the Remote Federating Service is initially created, the Role property will be set to Unknown and must be changed before the site will Federate.

### **General Settings Properties**

- Core Service: Set this to point to the Core Service running on the local server.
- Federation Service: Set this to point to the Federating Service running on the local server. Created, Description, Enabled, Environment, Label, Owner, Schedule and Tag properties function per existing Control Center documentation.

### Permissions

You can control which users have the Read, Write, or Execute permissions on the Remote Federating Service object as per the existing Control Center model.

### Remote Federation Service object states and statuses

You can enable and disable Remote Federation Service objects using the standard Control Center controls.



Remote Federation Service

🗄 🔣 Server 007

Server 007



Enabled and Online Remote Dis Federation Service Se

Disabled Remote Federation Service

To federate information between two sites, one site must be sending alarms and one must be receiving, and the Federation Services and Remote Federation Services at each site must be enabled and online. Additional information may be shown by the Remote Federation Service object, the Federation Service object or the Federation Server object.

Remote Federation Service	Remote Federation Service
🗉 📑 Server 007	📧 🙀 Server 007

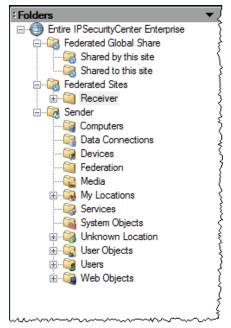
Enabled and pending

Enabled and Offline

When an initial synchronization takes place, the Remote Federation Service will show as enabled and pending as shown in the figure above. If the initial synchronization takes longer than 30 seconds, the RFS may temporarily show as offline until the initial sync is complete.

### **Federated Control Center Instance**

For a system to be correctly configured with Control Center Federated feature, additional System folders appear in System Configuration next to the default My Organization folder. The Federated Sites folders contain copies of the folders from each of the remote sites that this site is Federating data with.



The Federated Global Share folder contains content related to publishing, which is covered in more detail in **Publishing**.

### **Bi-directional Federation**

Bi-directional Federation is when you configure a site as a Sender and Receiver of Alarms to the same site.



Remote Federating Service (Sender)	Control Center Server Remote Federating Service (Sender) Remote Federating Service (Receiver) Control Center Control Center Client Client Client

# Federation Service Event Viewer and Loupe

For troubleshooting and diagnosing issues related to Federated Control Center instances, additional information is available within the Federation Service Event Viewer.

The Federation Service Event Viewer can be accessed in the following ways:

- In System Configuration, click Services and double-click the Federation Service object.
- Right-click the **Federation Service** object and select **Federation Service Event Viewer** from the context menu that appears.

Federation Service	
E Sederation Service	Search
Geographic Informa 縃	Search for more Federation Services
🗉 🕡 Geographic Inform	New •
Monitoring Service 🌛	Import
🗉 💭 Monitoring Service 🔞	Refresh
Notification Service	List Referencing Objects
🗉 🔜 Notification Servic	Delete
	Create Shortcut
Remote Federation	Disable
🗉 🛃 Server 007 🛛 划	Rename
Rules Engine Service	Federation Service Event Viewer

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ime	Context	Message	Operation	Status	Mode	
/14/2016 11:47:26 AM	RFS for Sender to Server 006	Notification queue length 0	Sync	Processing	None	
14/2016 11:47:23 AM	RFS for Sender to Server 006	Notification queue length 1	Sync	Processing	None	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync all objects completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Sync ThreatLevelSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Sync ThreatLevelSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmOfflineParkSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmOfflineParkSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Finish AlarmSync sync-all with: RFS for Sender to Server 006	Sync	Complete	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Completed syncing 0 resolved alarms between 9/14/2016 10:45:52 AM and 9/14/2016 10:47:19 AM in 0.0	Sync	Sync	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Start syncing 0 resolved alarms between 9/14/2016 10:45:52 AM and 9/14/2016 10:47:19 AM	Svnc	Svnc	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Syncing check for current alarms	Sync	Sync	Outgoing	
4/2016 11:47:19 AM	RFS for Sender to Server 006	Start AlarmSync sync-all with: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmResolutionTypeSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Finish AlarmResolutionType sync to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Start AlarmResolutionType sync to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmResolutionTypeSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmActivityTypeSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Finish AlarmActivityType sync to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Start AlarmActivityType sync to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmActivityTypeSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Sync CorrelatedAlarmTypeSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Finish CorrelatedAlarmType sync to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Start Correlated Alarm Type sync to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync Correlated Alarm Type Sync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmTypeSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Finish AlarmType sync to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
/14/2016 11:47:19 AM	RES for Sender to Server 006	Start AlarmType sync to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlarmTypeSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlertSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync AlertSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Sync ObjectStateSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sending objects states for 13 objects to Remote Federation Service: RFS for Sender to Server 006	Sync	Sync	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Sync ObjectStateSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RES for Sender to Server 006	Sync VisibilityObjectMappingSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Saving GIS lavers	Sync	Saving	Incoming	
14/2016 11:47:19 AM	RES for Sender to Server 006	Sync VisibilityObjectMappingSync started to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync FolderMappingSync completed to: RFS for Sender to Server 006	Sync	Complete	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync FolderMappingSync tompeted to: RFS for Sender to Server 006	Sync	Start	Outgoing	
14/2016 11:47:19 AM	RFS for Sender to Server 006	Completed publishing to: RFS for Sender to Server 006	Publish	Success	Outgoing	
/14/2016 11:47:19 AM	RFS for Sender to Server 006	Sync changes requires 1 objects	Sync	Complete	Incoming	

The Event Viewer provides a real-time view of status messages from the Federation Service. It is divided into the following columns:

Time	The local time of the message.
Context	The source of the message that may refer to an RFS or the Hostname stored within the Federation Service.
Message	The details of the message.
Operation	The operation type the message refers to.
Status	This provides additional information on the operation that is being performed.
Mode	Provides a description to indicate whether the message describes a Send or a Receive operation. None may be shown for status update messages.

When the Federation Service Event Viewer is displayed, the following buttons appear on the toolbar that allow the user to interact with the message list.

📘 Stop 📄 Clear 🔯 Group By 🗸

The **Stop** button stops the viewer from updating. When clicked, the button will change to **Start** and new messages will not be displayed in the Viewer.



The **Clear** button clears all messages from the Event Viewer Window. These messages cannot be recovered although they may still be viewed using Loupe.

The Group By groups the list of messages by Context, Operation or Mode. This can be useful when troubleshooting.

	Context	Message	Operation	Status	Mode
Sync (47 Items)					
3/22/2018 2:33:54 PM	Site 1 > NOC	Notification queue length 0	Sync	Processing	None
3/22/2018 2:33:50 PM	Site 1 > NOC	Notification queue length 1	Sync	Processing	None
3/22/2018 2:33:50 PM	Site 1 > NOC	Threat level changed: OldThreatLevel: 1, NewThreatLevel: 1, TenantId: 1072bcb7-7128-e811-968a-0050!	Sync	Saving	Incoming
3/22/2018 2:33:49 PM	Site 1 > NOC	Receiving object states for 43 objects	Sync	Saving	Incoming
3/22/2018 2:33:49 PM	Site 1 > NOC	Saving GIS layers	Sync	Saving	Incoming
3/22/2018 2:33:49 PM	Site 1 > NOC	Sync changes requires 1 objects	Sync	Complete	Incoming
3/22/2018 2:33:49 PM	Site 1 > NOC	Calculating changes for 77 objects	Sync	Info	Incoming
3/22/2018 2:33:46 PM	Site 1 > NOC	Sync all objects completed to: Site 1 > NOC	Sync	Complete	Outgoing
3/22/2018 2:33:46 PM	Site 1 > NOC	Sync ThreatLevelSync completed to: Site 1 > NOC	Sync	Complete	Outgoing
3/22/2018 2:33:46 PM	Site 1 > NOC	Sync ThreatLevelSync started to: Site 1 > NOC	Sync	Start	Outgoing
3/22/2018 2:33:46 PM	Site 1 > NOC	Sync AlarmOfflineParkSync completed to: Site 1 > NOC	Sync	Complete	Outgoing
Connection (7 Ite	ms)				
3/22/2018 2:33:49 PM	Site 1 > NOC	Successfully connected to: Site 1 > NOC (test3server.cnluk.com:9901)	Connection	CreateSession	Incoming
3/22/2018 2:33:49 PM	Site 1 > NOC	Connect request from: Site 1 > NOC	Connection	Connect	Incoming
3/22/2018 2:33:45 PM	Site 1 > NOC	Connected to Site 1 > NOC	Connection	Success	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	Response from Site 1 > NOC : ConnectionResult: Success, Federation Compatibility Version: 2.1.0.0	Connection	Success	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	Connecting to Site 1 > NOC	Connection	Start	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	RemoteConnectionManager.Start: Connecting to remote site: Site 1 > NOC	Connection	Connection	None
3/22/2018 2:33:45 PM	SyncRequest	Invalid Session Id: b3773761-46bc-43e2-a0d3-780fd9617feb	Connection	ValidateSession	None
<ul> <li>Publish (4 Items)</li> </ul>					
3/22/2018 2:33:45 PM	Site 1 > NOC	Completed publishing to: Site 1 > NOC	Publish	Success	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	Publishing 0 GIS layers	Publish	Info	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	Publish changes required 0 objects	Publish	Info	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	Initialise publishing to: Site 1 > NOC	Publish	Info	Outgoing
StateChange (4 It	ems)				
3/22/2018 2:33:45 PM	Site 1 > NOC	Connected to test3server.cnluk.com	StateChange	Info	Outgoing
3/22/2018 2:33:45 PM	Site 1 > NOC	Federation Service enabled = True, Remote Federation Service enabled = True	StateChange	StateChange	None
3/22/2018 2:33:43 PM	Site 1 > NOC	Disconnected from test3server.cnluk.com	StateChange	Warning	Outgoing
	Site 1 > NOC	Federation Service enabled = True, Remote Federation Service enabled = False	StateChange	StateChange	None

In addition, right-clicking the message list allows either an individual message or the entire log to be copied, as a comma-separated list to the Windows clipboard.

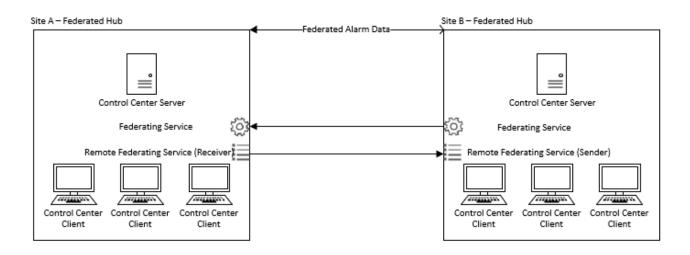
The Federation Service also records diagnostic information in Loupe.

	Product	Application	Environme	Prom
0	IPSecurityCen	Windows Client		
Θ	IPSecurityCen	Notification Service		
0	IPSecurityCen	Core Server		
	IPSecurityCen	Security Service		
	IPSecurityCen	RulesEngine Service		
8	IPSecurityCen	VideoExport Service		
	IPSecurityCen	Monitoring Service		
	IPSecurityCen	Geographics Service		
0	IPSecurityCen	Federation Service		
	IDC	^		

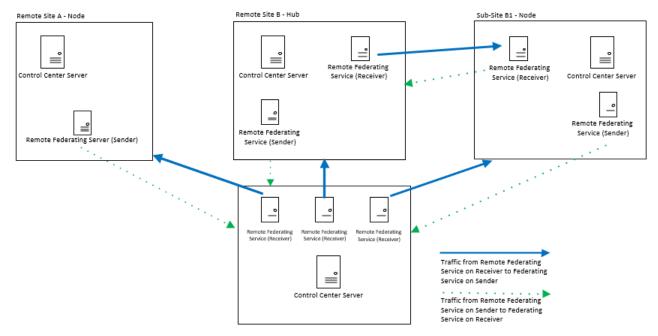
# Setup of Multiple Federating Control Center Environments

When configuring multiple systems that are federating, each pair of systems must have a Hub and Node configured.





For complex networks of Federating Systems, pairs of Nodes and Hubs must be configured appropriately.



In the above figure, the central NOC site acts as a Hub and receives alarms from Nodes configured at Remote Site A, Remote Site B and from Sub-Site B1. Therefore, there are three Remote Federating Service objects configured as Receivers at the NOC site. A Remote Federating Service configured as a Sender is present at each of the sites and sub-sites to send alarms to the NOC.

At Remote Site B and Sub-Site B1, there is another relationship wherein Sub-Site B1 federates alarm data to Remote Site B. Therefore, Remote Site B must be configured and licensed as a Hub that supports sending and receiving Alarm data. This supported configuration ensures that Remote Site B can act as a point of escalation for Sub-Site B1 and that the NOC can act as a point of escalation for both.

Note: Remote Site B will not forward any alarms it receives from Sub-Site B1 to the NOC.

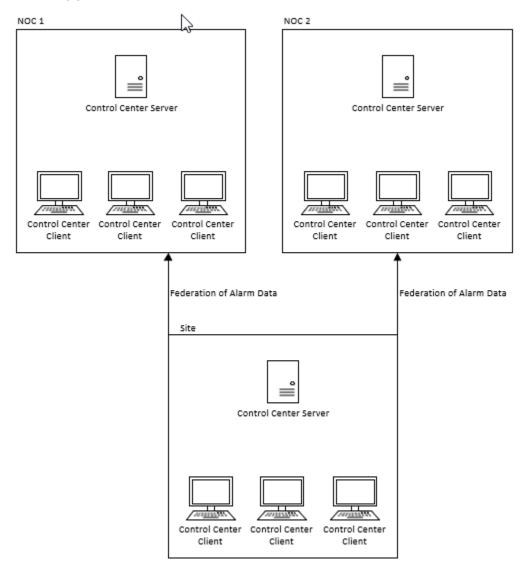


# **Non-Supported Federating Scenarios**

The following scenarios are not currently supported in Control Center.

### **Multiple NOC Federation**

Part of the core requirement for successful alarm federation between instances of Control Center is that each site involved in the communications must allow users to handle and manage alarms on behalf of a remote site. For example, in Site Federating Alarm Data to Multiple NOC's, the only source of alarm data comes from the site. The Site performs initial synchronization activities with both NOCs which means that both NOCs have a copy of the information required to resolve an alarm originating from the Site. The site does not pass through any information about NOC 1 to NOC 2 or vice versa. This means that if a user at one of the NOCs handles an alarm, this cannot be accurately presented at the other NOC.





### Pass Through Federation

When a site behaves as both Node and Hub to different sites (as shown in the above figure), the configuration will not support the passing through of data from the lower levels to the top level. Each Federating Server pair must have Remote Federating Services configured for each communication pathway.

# **Content Ownership**

In a Federated environment, the ownership and ability to edit content is of utmost importance. Normally, an object that is owned by a remote instance of Control Center cannot be edited on any site other than the owning site regardless of individual user permissions.

Each instance of Control Center includes a tenant ID to identify which site owns each piece of content. The Tenant ID information is not visible on objects but the Tenant ID for a remote system is stored in the properties of the Remote Federation Services object for the site.

Data Connections and Alarm Types Alarm Actions are the only exception which are described in later sections.

The Alarm Actions (from an Alarm Types object) can be modified at a local site to configure local responses to alarm conditions (see <u>Federated Alarm Types</u>).

# **Location Reference**

Using Location References, a control room user can interact with the locations and devices that are managed at a remote site.

As Location References use the location data that is already synchronized through Federation, they only work between sites that are federating data between them and are designed to allow Hub sites to view the content from connected Node sites. Location References do not allow Locations and Devices from a Hub to appear at the Node site. In addition, during Federation, Location References are sent by Federating Nodes, and are not sent back by the Hub.

You can publish Location References to remote sites using the Publish feature. This publishes the Location Reference object and not the underlying Locations to the receiving sites.

Typically, users located at the site where the devices are deployed are responsible for location maps and devices. Control Center allows users to leverage this information dynamically across federating sites to ensure that updates to locations, devices, and other useful information is kept synchronized with the least possible delay.

You can also create multiple Location References to the same remote instance of Control Center. For backward compatibility purposes, Location References on upgraded sites will continue to operate as designed.



### Location Reference example

Consider two sites that are federating: Site oo6 which is a Hub and Site oo7 which is a node.

Folders	Overview - My Loc	ations					
Entire IPSecurityCenter Enterprise							
🗉 🦓 Federated Global Share							
🗉 🦓 Federated Sites	Label	<ul> <li>Description</li> </ul>					
🖮 🦳 United Kingdon							
Computers	Location	Location					
🖃 😭 Data Connections							
🗄 🥁 Devices	🖽 👺 ик	The default location for the system.					
😟 💼 Media	1						
🖃 🦓 My Locations	1						
🖮 🥵 UK	1						
Security Operations Cent	re						
💼 🦺 0 - Ground Floor	1						
🖮 🦺 1 - First Floor	1						
🗄 🖫 🦺 2 - Second Floor	1						
Folders	Overview - Wroughton	n Office					
Entire IPSecurityCenter Enterprise							
E- 🔛 Federated Global Share							
	Label 🔺	Description 1					
Computers	Location						
🗉 🖓 Data Connections	- 0						
🗄 🖓 Devices	E Ground Floor	A Location contains objects relevant to a given locati L					
🗄 💼 Media	Scene Geographic						
🖮 🥁 My Locations	Scene Geographic						
🖃 📲 Wroughton Office	🗉 🍓 Wroughton Office	The default scene for the default location.					
Ground Floor	100	-					

Creating a Location Reference on Site oo6 (configured as a Hub) in the UK location allows the Locations, Scenes, and Devices configured on Site oo7 (configured as a Node) to appear within the Control Room Client UI for users at Site oo6.

To create a new Location Reference, right-click the context menu and select **New**> **Location Reference**.



CONTROL CENTER 5.28 REFERENCE GUIDE

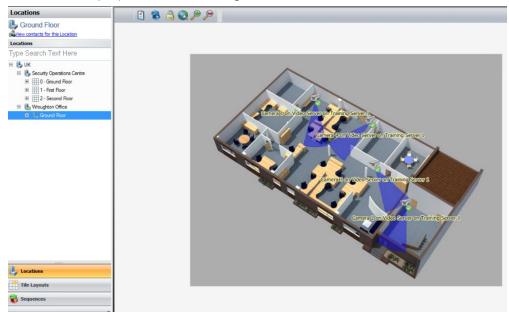
bel		Desc	ription			Type
ibei		> Desc	npuon			Type
Location						
🛛 🛃 Defau	ılt	The	default loo	cation for the system.		Location
	-					
	<b>#</b>	Search				
		New	•	Folder		
	4	Import	6	Location		
	-	Refresh	-	Shortcut		
	10	Relifesit	07	Alert State		
			-	Asset Group		
			2	Contact		
			23	Contact Group		
			=	Dashboard		
				Data Connection		
			P	Date Time Schedule		
			1	Device On	•	
				Display Area		
				Graphical User Interface		
			22	Group		
			1.0	Location Reference		
				Media		
			9			
				Remote Federation Service		
				Report Template		
			*	Response Plan Scenes		
			8			
				Sequence Tile Layout		
			0	Timer		
				Trigger		
6				User		

After adding a label for the Location Reference object, select the TargetLocation property from the remote site.

Overview - Default			-	: Pr	operties - (Locatio	on Reference to Wiltshire) 🔹
		Search in Default	P		]⊉↓	
Label	Description		Type	0	General Settings	
						1/6/2017 4:25 PM
Location					Description	Location Reference
					Enabled	True
🗉 🛃 Security Operations Center	A Location contains objects relevant	to a given locati	Location		Label	Location Reference to Wiltshire
					Owner	Administrator
Location Reference					Schedule	No schedule set
🗉 🕡 Location Reference to Wiltshire	Loophing Defension		Location Reference		Tag	
	Location Reference		Location Reference	٥	Misc	
Scene Geographic					TargetLocation	Click to edit
Seene deographie				٥	Permissions	
🗉 🎧 Default	The default scene for the default loc	ation.	Scene Geographic		Security	Security Settings



The main interface shows the locations from the remote server in the System Explorer. These locations behave in the same manner as a locally configured location as displayed in the Location Reference displayed to End User figure.



Once the Location Reference is created, it can be treated as any other object in Control Center System Configuration.

The label that appears on screen will be the label of the Location at the remote site.

**Note**: You must restart the Control Center Client after moving a Location Reference to a new location to get the correct alarm counts in the System Explorer.

### Configuring Location Reference to Appear as Base Location

You can configure a Location Reference as a base location in the System Explorer GUI.

To configure a location reference to appear as base location:

1. From System Objects, open System Explorer and edit Locations by selecting the Base Locations property. The following dialog appears:

### CONTROL CENTER 5.28 REFERENCE GUIDE



🔍 Search Objects			×		
Select these object types:			- 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947		
Locations					
From the following locations:					
All Folders			Locations		
Federated:					
Iccal All Sites C	) Specific Site		Sites		
Label: Contains	~		Find Now		
_					
Description: Contains	$\sim$		Stop		
Select All Select No	one	OK	Cancel		
Label:	Туре	Folder	Last Modified		
Label: 🎝 Building 11	Type Location	Folder Watchmoor Park	Last Modified 8/27/2020 12:29:40		
Building 11	Location	Watchmoor Park	8/27/2020 12:29:40		
Building 11 Chicago	Location Location	Watchmoor Park Example Organization	8/27/2020 12:29:40 10/6/2020 11:05:59		
Building 11 Chicago Example Organization	Location Location Location	Watchmoor Park Example Organization My Locations	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53		
<ul> <li>Building 11</li> <li>Chicago</li> <li>Example Organization</li> <li>Site A</li> </ul>	Location Location Location Location	Watchmoor Park Example Organization My Locations UAE	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05		
Building 11 Chicago Example Organization Site A UAE	Location Location Location Location Location	Watchmoor Park Example Organization My Locations UAE Example Organization	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05 8/27/2020 12:15:32		
Building 11 Building 11 Chicago Example Organization Site A UAE UAE UK	Location Location Location Location Location Location	Watchmoor Park Example Organization My Locations UAE Example Organization Example Organization	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05 8/27/2020 12:15:32 8/27/2020 12:11:16		
Building 11 Building 11 Chicago Example Organization Site A UAE UAE UK	Location Location Location Location Location Location	Watchmoor Park Example Organization My Locations UAE Example Organization Example Organization	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05 8/27/2020 12:15:32 8/27/2020 12:11:16		
Building 11 Building 11 Chicago Example Organization Site A UAE UAE UK	Location Location Location Location Location Location	Watchmoor Park Example Organization My Locations UAE Example Organization Example Organization	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05 8/27/2020 12:15:32 8/27/2020 12:11:16		
Building 11 Building 11 Chicago Example Organization Site A UAE UAE UK	Location Location Location Location Location Location	Watchmoor Park Example Organization My Locations UAE Example Organization Example Organization	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05 8/27/2020 12:15:32 8/27/2020 12:11:16		
Building 11 Building 11 Chicago Example Organization Site A UAE UAE UK	Location Location Location Location Location Location	Watchmoor Park Example Organization My Locations UAE Example Organization Example Organization UK	8/27/2020 12:29:40 10/6/2020 11:05:59 8/27/2020 12:11:53 8/27/2020 12:30:05 8/27/2020 12:15:32 8/27/2020 12:11:16		

2. Select the **All Sites** option to configure the System Explorer to show any remote location without using a **Location Reference**. In the **Search** dialog showing All **Sites**, the remote site Wroughton Office is configured as a base location beside the local, Location UK.





### **Circular Location References**

Location References can refer to a remote site which itself has a location reference to the original location. However, it requires the Location information to be federated to the locations concerned and that the Location Reference object has been Federated or Published to the site concerned.

Locations
Wroughton
Locations
Type Search Text Here
<ul> <li>■ UK</li> <li>● UK</li> <l< td=""></l<></ul>

The above figure shows a site where a circular reference is configured. The Top location UK includes a Location Reference to the remote location Wiltshire. This remote location contains two locations as well as a Location Reference back to UK.

Expanding the Wiltshire location shows the two locations at the Wiltshire site, namely Newbury Office and Wroughton Office in addition to the location UK. You can expand it to reveal the locations for the UK site which will include the references to the Wiltshire location.



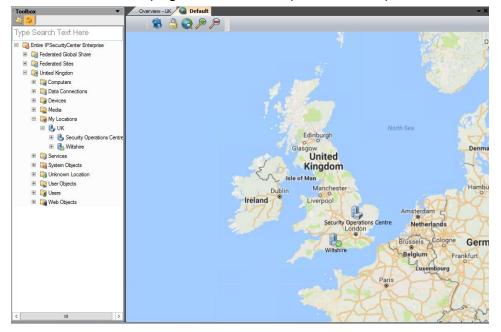


Locations				
P Wiltshire				
View contacts for this Location				
Locations				
Type Search Text Here				
🗉 🖺 UK				
🗉 🚯 Security Operations Centre				
🖃 🚯 Wiltshire				
🗉 퉪 Newbury Office				
🗏 🛃 UK				
🗉 🖶 Security Operations Centre				
E 🐻 Wiltshire				
🗉 🔥 Newbury Office				
🗉 🛃 ИК				
🗉 🛃 Security Operations				
🖃 🐁 Wiltshire				
🗉 🐌 Newbury Office				
🗉 🛃 UK				
🖭 🔥 Wroughton Office				
📧 🔥 Wroughton Office				
🗉 퉪 Wroughton Office				
*****				

The above figure shows the expanded location tree, which will continue to display the locations when they are accessed.

### **Plotting Location References on Scenes**

When editing a scene, Location References do not appear as separate items, however they resolve to the target location. Therefore, it is not possible to plot Location References as distinct items on a scene, but the underlying locations can be plotted directly on the scene.





For example, in the above figure Security Operations Centre location and the Wiltshire location are plotted on the scene. Wiltshire location is available due to a Location Reference to a remote server.

The plotted asset acts as a standard plotted location and will observe all the default behaviors for alerting, icon display, and zoom levels.

Location References are transparent to Alarm Alert State Parent propagation, that is the Alert States that the remote sites generate will continue to alert parent Location Types as defined in the Alert State property regardless of whether the Locations are local or at a remote site. For more information, see <u>Managing Alert States</u>.

### Location and Device Online Status on System Explorer and Map

Locations and Devices that are owned by a remote site support showing the online state for the device or location.



In the above figure, Europe and UK are local to the site, therefore no online state is shown on the icon. For all items in the tree below Wiltshire which are provided from a remote site, a green check icon appears to indicate that the Devices and Locations are online.

Similarly, when viewing these icons plotted to a scene, the same green check appears. If the video is being displayed on a tile, then the green check icon is replaced with a blue play button.





Individual devices that are disabled on the site owned by them, appear with a red cross icon as shown below:



In addition, if the federated communication between the Hub and Node site is interrupted by communications outage or by disabling the Federation Service links, then all devices and locations are set to offline.



For additional information, check System Configuration or hover the mouse over a plotted item as shown below:



When connections are restored to the remote site, the User Interface shows the status of all devices and locations at the remote site.



### Handling Exceptions

When a Federated Service encounters an exception from a remote site, the Service will disconnect from the remote site and reconnect forcing an initial sync. This is designed to resolve most scenarios where an exception occurs.

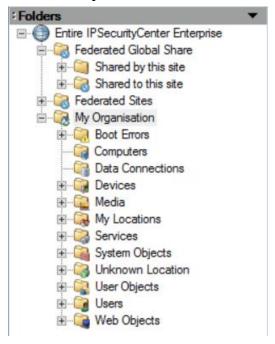
Occasionally, a site may continuously disconnect and reconnect due to a data corruption issue. To resolve the issue, disable the Remote Federation Service and contact <u>CNL Support</u>.

# **Publishing in Federated Control Center**

Federated Control Center enables sharing objects between individual instances of Control Center, which is termed as Publishing. It allows one installation of Control Center to deploy copies of objects to other instances of Control Center electronically to ensure that all the connected installations are using the same Response Plans, GUIs and Process Guidance.

**Note**: Publishing is included with the Federated license in Control Center.

A Hub or Node site that is configured and licensed to federate with another site can send and receive Published objects to and from another Hub or Node instance of Control Center.



For a system that has Control Center Federated feature enabled, additional System folders appear in System Configuration along with the default My Organization folder.

The Federated Global Share folder includes the following System folders:

- Shared by this site
- Shared to this site



Objects to be published must be placed within the Shared by this site folder. Also, any object that has a dependency of a Published object must also be published otherwise the Publish process will fail validation checks.

**Note**: There is currently no option to rename sub-folders within the Shared to this Site folder in Federated Global Share.

The following objects can be published:

- Alarm Media
- Alarm Types
- Alert State
- Client Templates
- Contact
- Contact Groups
- Dashboard
- Data Connection
- Date Time Schedule
- Display Area
- Folder
- Graphical User Interface
- Hot Key Mappings
- Local Enterprise Settings
- Location
- Location Reference
- Media
- Modern Client Theme
- Response Plan
- Tile Layouts
- Timers
- Triggers
- User Group
- 2D Scenes (Schematic and Geographic)
- 3D Scene

### **Publishing a Federating Object**

You can publish an object that is federating using the Publish Manager to post content to remote sites. The following example describes how to publish contact and contact groups.

To publish contact and contact groups:

- 1. Create two sites and set up a federated environment. That is, set up servers on two different machines with one client for each server, for example a Sender and Receiver.
- 2. Create the following contacts and the contact groups to start with:
  - New Contact 1
  - New Contact 2
  - Contact Group 1 (via add members)

# # everbridge\*

- **Contact Group 2** (via add members)
- 3. From the **Sender's** client, right-click the **Shared by this site** folder and select **Publish Manager**. The **Publish Manager** screen opens.
  - E-Garated Global Share Spared by this site ah 🗄 🖓 Sł 🥐 Search... 🖻 🥘 Feder Import... 🗄 🖟 💽 United 🚗 Refresh 🗄 - 😭 Cd 🗄 - 🚰 D 🖃 Create Shortcut 🗄 🖳 🖸 🕥 Rename -词 D 🗄 -- 📬 M **Disable Debugging** ۲ 🗄 -- 🦳 M Security Policy... - 🟹 Se - 🞑 S Publish Manager ø 🗄 -- 🥁 U
- 4. Click **Publish**. The **Contact** contents are published to the **Receiver's** Site.

Publish Share Folder Contents Completed Successfully Completed Publishing to 1 sites Completed publishing to: Remote Federated Service Publishing object 'Sender's Display area' (DisplayArea) to: Remote Federated Service Publishing object 'Contact 1' (SiteContact) to: Remote Federated Service Publishing object 'Contact 2' (SiteContact) to: Remote Federated Service Publishing object 'First Group' (SiteContactGroup) to: Remote Federated Service Publishing 0 GIS layers Publishing 0 custom property definitions Publish changes required 4 objects Initialise publishing to: Remote Federated Service Validating share folder completed Shared by this site (OrganisationalUnit) Windows Client Template (WindowsClientTemplate) Sender's Display area (DisplayArea) Contact 1 (SiteContact) Contact 2 (SiteContact) First Group (SiteContactGroup) ด Validating share folder. Found 6 objects Begin publishing to 1 sites

- 5. On the **Receiver** site, view the folders to see the newly created contacts and contact groups appear.
- 6. Log in to the other machine to check if they are federating. View the **Shared to this site** folder received from the other site.
- 7. Replicate the same steps on the **Receiver** machine to create the same **Contact Groups & Contacts** on the other site.
- 8. Check the **Federation Service Events** to see the objects that are getting federated. The newly created items should appear in the list.



**Note**: You can use the **Clone** from button in the **Setup Display** dialog to clone display configuration from a published **Client Template** object to clone Windows display configuration.

### **Publish Manager**

The Federated sites folder contains sub-folders for each site that the current system is federating with. Each sub-folder is labeled as the name of the RFS that links the site together when the Federation Service first starts.

As Publishing tasks differ from automatic synchronization, there is no feature that will automatically keep published content up to date across all the sites, therefore Publishing requires individual Publish session to be initiated by a user.

Publishing has been designed to support simultaneous content distribution to multiple end points. Performance of Publishing content is influenced by the bandwidth and latency between the servers as well as the resources available to the site that initiates the publish.

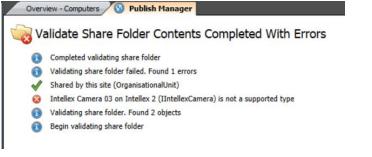
To retain system integrity, Control Center enforces consistency checks before a publish action takes place. This ensures the dependencies (if any) are present and that no unsupported object types have been moved or copied into the folder.

If a Published asset depends upon another asset, it must also be present in the Publish folder. If an object fails the dependency checking process, the publish action will be aborted. Dependency checks will check all references to users or groups, therefore it is recommended to use Active Directory Groups rather than Control Center groups when building published content.

You can perform a consistency check without Publishing, using the Validate Share Folder option in Publish Manager.

Ҝ   ⊳ 🔲   🐼 Publish   🖋 Mark All   🔊 Unmark All	🏀 Validate Share Folder 🛛 🛞 Refres	h
Overview - From RFS to Receive from Server 007	🙆 Publish Manager	
Federation Server	Online Status	Publish Status
Search Text	Search Tex	t Search Text
Server 007	Online	O
~		

After a successful validation step, Publishing will check for any existing content on the remote site and send anything that is missing in each site to bring the remote sites up to date with the content.



When the content is published, the Publishing site retains ownership of the content, and the copy of the content is published to the selected site folder, which will be read-only on any site that receives it.

For assets that include complex editors (GUIs, Response Plans), remote sites that receive these objects can view the asset in a read-only editor to assist with troubleshooting. Response Plans can



also be debugged without having to modify the properties of the Response Plan. For more details, see <u>Debugging Published Content</u>.

For every installation, only one concurrent Publish is supported. A second Publish cannot be started if a Publish is already occurring.

As shown in the Validate Share Folder figure, you can identify when a remote site has copies of the latest contents of the Publish folder, whether all sites are currently online, the date of the last attempted Publish and any errors that occurred during the last Publish process.

### Users and Groups

Publishing does not currently support the publication of User Accounts. Therefore, when you have to publish content that is dependent upon or restricted by User from one instance of Control Center to another, you must configure it using Active Directory Users and Groups.

### **Environment Variables**

Environment Variables allow published content to interact with local configurations. Environment Variables are useful when specifying GIS layer information and in Data Connections. Environment Variables are managed in **System Configuration** > **Global Settings**> **Environment Variables**.

🎡 Global Settings			×
Alarms Environment Variables	🧼 Environment Va	riables	
Enterprise Settings	Configure Environment Variables		
Error Reporting			
Languages	Use this dialog to Add / Edit a	variable	
Security	Variable Name:	GISSettings	
SQL Reporting		LocalGISServer	
Styling Video Wall	Variable Value:		
VIGEO Wali		OK Cancel	
		OK Cancel Apply	

The environment variable is represented as *%variablename%*. During evaluation, the server looks up the variable name against the list of locally defined environment variables and replaces the value stored in the environment variable for the required value. In the figure below, the data connection to Pacific connects to the SQL Server called *%SQLSettings%* which resolves to *LocalSQLAddress* of the site.

### CONTROL CENTER 5.28 REFERENCE GUIDE



Labe	<b>▲</b>	Description	Туре	<ul> <li>Last Modified</li> </ul>	E: 4	Connection Settings	
						Command Timeout	0
Da	ita Connection					Database	PACIFIC
						Local	False
± (	Online State Data Connection	For device online state reports	Data Connection	11/15/2016 11:48:05 AM		Password	
						Server Name	%SQLSettings%
						Use Integrated Security	False
						User Name	
						C 10.00	

For a GIS Layer, the environment variable is used as part of the address for a WMTS service, where the value <a href="http://%GISSettings%:8180/geoserver/gwc/service/wmts">http://%GISSettings%:8180/geoserver/gwc/service/wmts</a> is published to multiple sites, and each site can individually define the value for *%GISSettings%*.

Version	1.0.0
Enter an addres	ss of a [ServiceType] and click Go, to list the available layers.
Address:	
http://%GISSett	ings%:8180/geoserver/gwc/service/wmts
Layers:	
Selected Layer:	
EPSG:	

### Search

Federated and published content may be searched through using the existing search capabilities. The **Search Objects** dialog (in System Configuration) allows searching through content received from remote installations.

🔍 Search Objects	×
Select these object types:	
Alarm Types, Alarm Types Servers, Alarm Types Services, Alert States, Asset Groups, Audit S	Object Types
From the following locations: All Folders	Locations
Federated:    Local  All Sites  Specific Site	Sites
Label: Contains V	Find Now
Description: Contains V	Stop
	ОК
Ready to search	

By default, the **Search** function will continue to search through the objects stored on the local server. Additionally, you can search across all Federated Sites or through the contents of a specific Site.

### Published System Explorer and Main Menu GUI Controls

Through Publishing, Control Center can create a centrally defined System Explorer and Main Menu that is controlled at one site and synchronized with remote sites. This enables a high degree of conformity to Alarm Management throughout the organization.



After creating and saving the Main Menu or System Explorer, it is published to each remote site. The Global Settings dialog on the remote site can be used to select which Main Menu and System Explorer GUI to use.

larms	Configure Enterprise Settings				
nvironment Variables nterprise Settings					
rror Reporting					
anguages	Enterprise Settings: Recal Enterprise Settings				
ecurity	Name	Value	2		
QL Reporting	Deserved	- someting en jorganisation court			
tyling	Password A Email Server Settings				
ideo Wall	Authenticate				
	Server Address				
	Server Address SMTP Port		0 🗧		
	Use SSL				
	∧ General				
	Support URL	http://support.cnlsoftware.com			
	<ul> <li>Object</li> </ul>	http://adpontensortwarecom			
	Object Selection Color	#FFFFA500			
	<ul> <li>RateLimit</li> </ul>				
	Rate Limit Default		60		
	Rate Limit Option	Disabled			
	Rate Limit Window		60		
	<ul> <li>VI Configuration</li> </ul>				
	System Explorer GUI	System Explorer			
	IconSet	HighDetail			
	Main Menu GUI	Main Menu			
	Tooltip Template	Default Tooltip Template			
	Alarm Attachment Size limit per item. If left blank no limit will be	applied.			

Go to System Configuration > Global Settings > Enterprise Settings. Navigate to UI Configuration. From here you can choose from the available Main Menus or System Explorers.

When selecting an alternative GUI to use, the Search box appears. Remember to use the All Sites search option to find GUIs from the site that published them.

### CONTROL CENTER 5.28 REFERENCE GUIDE



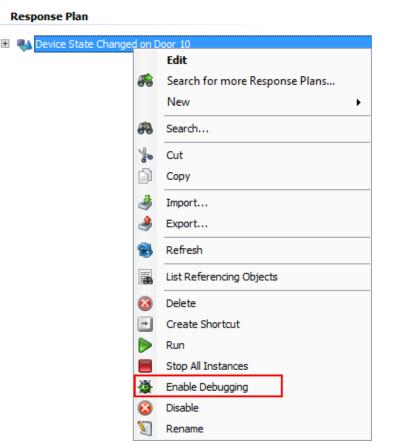
🔍 Search Objects			×
Select these object types: Graphical User Interfaces From the following locations: All Folders Federated: O Local O All Sites O	Object Types Locations Sites		
Label: Contains Description: Contains	~		Find Now Stop
Select All Select No	one		OK Cancel
Label: Administrator Interface Adam Stack Main Menu Map System Explorer	Type Graphical User Interface Graphical User Interface Graphical User Interface Graphical User Interface Graphical User Interface	Folder System Objects System Objects System Objects System Objects	Last Modified 10/5/2020 12:46:13 10/5/2020 12:46:13 10/5/2020 12:50:25 10/5/2020 12:50:34 10/5/2020 12:50:31
Searched 1 type, 5 objects f	ound , search took 146.993	milliseconds.	

### **Debugging Published Content**

To assist debugging commissioned logic, GUIs, and response plans that are published can be debugged at the receiving site.

The required break points in a response plan must have been included when the content is published. On the site that receives the response plan, the user can enable or disable debugging via the context menu.





The client that will show the debug information for a response plan will be the client on which the **Enable Debugging** option is set on the response plan.

The user can disable debugging at a folder level by using the folder context menu. This gives the user the ability to disable debugging on GUIs or response plans separately. The application will provide a pop-up notification confirming how many response plans or GUIs were modified.



### **Publishing and Federating Custom Properties**

A commissioning user can create Custom Properties to store additional information for specific object types.

No changes have been made to which objects support Custom Properties or to the types of Custom Properties that may be created.

When using Custom Properties in a federated environment additional considerations apply.

The following examples refer to NOC to indicate an instance of Control Center that acts as a receiver of Alarm Data from one or more Sites. It works with the assumption that the NOC owns the Published content which is Published to the Sites.

# everbridge®

Any Custom Properties that have been defined at a site will be included when that site publishes content to remote sites. All Custom Property definitions are published even if they are defined for object types which do not get published.

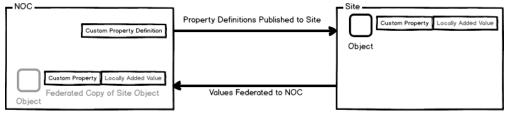
The Object Designer only shows those Custom Properties that have been defined at the local site. It is not possible to edit or change Custom Properties that have been Published to a site.

All Custom Properties available at the site are visible to the user when creating or editing a new object. These Custom Properties may have been created locally or published to the site.

Label	Description	Type	▲ La:	⊿	General Settings		
						11/2/2016 4:39 PM	
Alert State					Description	Asset Groups	
					Enabled	True	
🗄 🥎 Red	Alert State objects represent system Alert States.	Alert State	10		Label	New Asset Groups	
					Owner	Administrator	
Asset Groups					Schedule	No schedule set	
🗉 🔒 New Asset Groups	Asset Groups	Asset Groups	11		Tag		
Mew Asset Groups	Asset Groups	Asset Groups	11	⊿ Other			
Contact					Object Types	0 Types Selected	
contact					Objects	0 Objects	
🗉 💕 New Contact	Contacts hold responsibility for operations within a Lo	. Contact	11		Server 6 Custom Property	Value set at Server 7	

The above figure shows an Asset Group created on Server 7. The highlighted Custom Property was defined on Server 6 and Published to Server 7. After creation of the new Asset Group, the user can set the value of this Custom Property using any of the available methods.

If the Custom Property is defined against for a Federated object type, then the value of the Custom Property will also be Federated to any site configured to receive Federated data.



The above figure shows the correct configuration to receive Custom Property values at a Federated NOC site.



In the above figure, the custom property has been defined at the Site. Neither the property definition nor any locally added values are federated to the NOC.

When using Custom Properties with Federated Sites, care must be taken to ensure that unique Property Names are used across the entire enterprise. If two sites define a Custom Property on the same Object Type with the same Custom Property Name, then a Validation error will occur when the Publish is attempted.

If a published object also contains a Custom Property defined and populated on the NOC, then the Property Definition and Value set at the NOC is published to the remote site. The Custom Property Value cannot be overwritten at the local site as the data will be owned by the NOC.



## **Alert State**

Alert State objects provide additional alerting capabilities in a federated Control Center solution.

In a Federated environment, where a Location Reference is configured, the list of parents to be alerted will continue across the Site Reference to the Federated Site. If you do not wish this behavior, then add the following key to the <appsettings> section of the configuration file for the Core Server and Alarm Types Service on the parent site, that is, the site that contains a Site Reference:

<add key="EnableAlertsAboveSiteRef" value="False" />

This will prevent Alert State propagation past Location References.

Consider the following scenario where Site 2 is federating to Site 1 and a Location Reference exists between the sites.

### Site 1 - Globe

Contains its own locations and links to other instances of Control Center.

- . Location Tree for Globe
  - . Globe (Location Type Other)
    - . Europe (location Type Region)
    - . UK (Location Type Country)
    - . Headquarters (Location Type Site)
    - . Building 1 (Location Type Building
    - . Building 2 (Location Type Building)
    - . Remote Site (Site Reference to Site 2)

### Site 2 - Remote Site

Includes a separate instance of Control Center that federates Alarm data to Globe.

- Location Tree for Site 2
  - . Site 2 (Location Type Site)
    - . Building 3 (Location Type Building)
    - . Floor 1 (Location Type Floor)
    - . Device 1
    - . Device 2

If an Alert State configured to include parents of Location Types Floor is applied to Device 1, then Floor 1 will also have the alert state applied to it.



If an Alert State configured to include parents of Location Types Floor, Building and Country is applied to Device 1 then Floor 1 and Building 3 at Site 2 will be alerted, also alerted will be UK at Site 1.

If multiple Alert States with the same priority are applied to a resource, then the most recent alert state to be applied will be shown.

Methods available for Alert States stay unchanged except for resetting an alerting object resulting in parent objects to also be reset.

# **Federated Status**

The Federated Status functionality enables you to determine the connected state of all remote sites, additional information about the state of the connected sub-systems and perform tests to confirm end-to-end connectivity. The status of each site can be determined from the federated status dashboard displayed on the GUI.

### **Federated Control Center Prerequisites**

Make sure you have configured the following prerequisites as a minimum:

- Install the Federation Service and set up at least one federated solution.
- Configure a working Federated system, wherein you have at least two Control Center Servers and one Control Center Client for each of the servers.

Label based on the apps used. Map sources such as Google Maps and OSM will require an internet connection. If a mapping server is available on the local network, then suitable network connectivity must be in place between the mapping server and all Control Center servers/clients.

### **Configuring the Federated Status GUI**

To configure the Federated Status GUI:

- Right-click anywhere in the Overview System Objects pane and select New > Graphical User Interface.
- 2. Rename it to Federated Status view.
- 3. Double click on the GUI object to open the GUI editor.
- 4. From the **Toolbox** > **Visual** pane, drag the **Federated Status** control and drop it to the design surface.
- 5. With the GUI selected, configure the following properties on the right.

: Pn	operties - (Federated status	;) 🔻			
<b>**</b>	II 🚳				
:	2↓ 🖻				
~	Appearance				
	Enabled Column Visible	True			
	Last Communications Column V	True			
	Message Column Visible	True			
	Operational Status Column Visit	True			
	Remote Site Column Visible	True			
	Test Button Column Visible	True			
~	Basic Settings				
	Anchor	Top, Left			
	Count Font Size	0			
	Dock	Тор			
	Enabled	True			
>	Location	0, 0			
>	Margin	3, 3, 3, 3			
	Name	federationStatusUserControl1			
>	Padding	0, 0, 0, 0			
>	Size	566, 516			
	Tab Index	0			
	Tab Stop	True			
	Tag	federationStatusUserControl1			
	Visible	True			
~	Behaviour				
	Client Regular Expression Filter				
	Show Disabled Sites	True			
	Show Disabled Subsystems	Тгие			
~	Other				
	Site Object Types To Show	16 Types Selected			

### Appearance

Enabled Column Visible	Show or hide the Enabled column by setting it to True or False.				
Last Communications Column	Show or hide the Last Communications column by setting it to True or False.				
Message Column Visible	Show or hide the Message column by setting it to True or False.				
Operational Status Column Visible	Show or hide the Operational Status column by setting it to True or False.				
Remote Site Column Visible	Show or hide the Remote Site column by setting it to True or False.				
Test Button Column Visible	Show or hide the Test column by setting it to True or False.				
Basic Settings	Lists the Generic Grid Properties found in the other areas of the application.				



	Count Font size: sets the font size of the count displayed in the dashboard
Behavior	
Show Disabled Sites Show Disabled Sub Systems	Show or hide disabled sites when you select True or False. Show or hide disabled subsystems when you select True or False.
Other	
Site Object Types to show	Select the object types that should be visible when displaying a site's local objects.

- 6. Save the GUI.
- 7. From the **System Objects** pane, right-click the GUI and select **Generate Tile Layout**.
- 8. Right-click the new tile layout and select **Display Tile Layout On** or drag and drop the tile layout to display on a display area.

3 (	9	Remote Site		• Enabled	Operational Status	Last Communication:	<ul><li>✓</li></ul>		✓
Fec	derate	d status	aA	Υ Υ	Ŧ			1 Connected	0 Disconnected
	1	Sender		0	×	Within 5 minutes			<b>v</b>
	5	Alarm Types Service (Alarm Service)	Types	۲	۲				0 Not Synced
	5	Core Service (Core Service)		<ul> <li>Image: Construction</li> </ul>	<b>O</b>				
	5	Default (Connection Manag Service)	er	0	Ø			1	0 Not Synced > 1 Hr
	6	Geographic Information Ser (Geographic Information Ser		۲	۲				
	5	Notification Service (Notific Service)		9	0			Synced	0 Not Synced > 6 Hr
	5	P-SR16-SQL16-03.dev.cnluk (Alarm Types Server)	.com	9	۲		<b>V</b>	Jynced	
	6	P-SR16-SQL16-03.dev.cnluk (Geographic Information Se		9	۲				1
	r.	P-SR16-SQL16-03.dev.cnluk (Notification Server)	.com	0	٢				Partially Operational
	5	P-SR16-SQL16-03.dev.cnluk (Rules Engine Server)	.com	0	9			0	<b>N</b> Partially Operational > 1
	1	P-SR16-SQL16-03.dev.cnluk (Security Server)	.com	0	×				hour
	5	P-SR16-SQL16-03.dev.cnluk (Video Export Server)		۲	۲				∩ Partially Operational > 6
	<b>S</b>	P-SR16-SQL16-04.dev.cnluk (Windows Client)	.com	۲	۲		H	Fully Operational	hours
	5	Rules Engine Service (Rules Service)	Engine		Ø	-		Refr	resh



### Viewing the State of the Key Remote Services

From the Federated Status GUI, expand a site to view the state of the key remote services such as the Control Center Core Service, Connection Manager Service, or specific devices at the sub-system in the main window. If the services are running, you will see a green tick under the Operational Status column. A red cross represents that the services or devices are not operational and needs to be fixed. A green tick under the enabled column depicts the services or devices have been enabled.

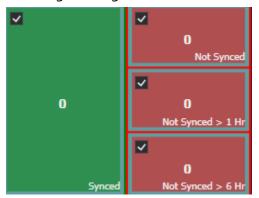
Let's consider a scenario to understand the GUI displayed above.

If the administrator at the NOC wants to view the status of all sites connected to it, he can easily get an insight by the status boxes on the right side of the screen. The green boxes to the left display the sites that are functional and the red boxes on the right displays various stages the sites are in before it eventually becomes functional.

The first set of boxes represent the number of sites that are connected or not connected to the central hub. It is logical to assume that the sum of these two numbers is a typical representation of the total number of sites connected to NOC.



The next set of boxes represent the sites that are synced or not synced to the NOC. In circumstances where the site has lost connectivity to the parent site, it would be in the Not synced box. Once the connectivity is established and the sync is complete, it will be added to the Synced count. The boxes in the right also gives us the indication of the duration for which the site is out of sync with the NOC



The last set of boxes represent the represent the sites that are fully operational or partially operational depending on the operational status of all the services and devices at the site.





A fully connected, synced and operational site is as shown in the figure below. The administrator can click on the refresh button to see the latest status of all sites.

	n Popup	,						
		Remote Site	Enable	d Operational Status	Last Communication:	~		✓ ■
Fec	derate	d status aA	T	<b>T T</b>			1 Connected	0 Disconnected
4	~	Sender	0	<b>I</b>	Within 1 minute	<b>V</b>		<b>V</b>
		Alarm Types Service (Alarm Types Service)	· 📀	<b>2</b>				0
	5	Core Service (Core Service)	Sector 1	Ø				Not Synced
		Default (Connection Manager Service)	0	<b>Ø</b>			1	✓ 0
	50	Geographic Information Service (Geographic Information Service)	0	<b>©</b>				Not Synced > 1 Hr
	10	Notification Service (Notification Service)	9	<b>2</b>				⊻ 0
		P-SR16-SQL16-03.dev.cnluk.com (Alarm Types Server)	9	<b>2</b>			Synced	Not Synced > 6 Hr
		P-SR16-SQL16-03.dev.cnluk.com (Geographic Information Server)	9	<b>2</b>		~		∽ _
	100	P-SR16-SQL16-03.dev.cnluk.com (Notification Server)	0	۲				Partially Operational
		P-SR16-SQL16-03.dev.cnluk.com (Rules Engine Server)	0	0			1	✓ 0
		P-SR16-SQL16-03.dev.cnluk.com (Security Server)	0	0				Partially Operational > 1 hour
	50	P-SR16-SQL16-03.dev.cnluk.com (Video Export Server)	0	0			✓ 0	
		P-SR16-SQL16-04.dev.cnluk.com (Windows Client)	0	0			Fully Operational	Partially Operational > 6 hours
		Rules Engine Service (Rules Engin Service)	e 🧭	0	_		Refr	resh
	5	e ne ne ne ne					Ren	Coll

By default, all sites connected will be listed. The user can also look for a site by entering the name in the search bar at the top of each column. On pressing enter, the site along with its status will be displayed.

There is an additional property that can be set, to fire an alarm if a site is non-operational for more than the set time. To do that,

- 1. Click on the **Federated Sites** option in the **System Configuration** window.
- 2. Select a site from the list connected in the federation network, to display the properties window on the right.



: Pn	Properties - (IPSC-TS04)							
	2↓ 📼							
~	Connection Settings							
	Last Successful Full Sync Time	12/12/2018 5:43 PM						
	Link Disconnected							
	Load Balanced Host Name	ipsc-ts07.cnlukdev.com						
	Load Balanced Port Number	9901						
	Operational Timeout Period	10						
	Password							
	Remote Tenant Id	1f4f8649-25fd-e811-967d-0						
	Role	Sender						

3. Enter the **Operational Timeout Period** in minutes after which the event needs to be triggered.

10 min is the time for a site to connect back to the NOC after going offline. If this time limit exceeds and the site is still non-operational, then an event is triggered to fire an alarm.





# Import / Export

You can export Control Center objects and import them into another solution.

The Import / Export feature supports all Control Center object types except the following:

- Clients
- Servers
- Services

It is still possible to export objects that reference the above objects. During the import of these objects you can select the local object to be used in place of servers, devices and so on.

Some objects in Control Center are system objects, meaning they are created when the system is installed and cannot be deleted. When exporting and importing, the following rules apply to system objects.

- A system object can only upgrade or overwrite a system object on import.
- A system object can only be imported if it is of type GUI, Addon or Alarm Type
- A system object can only upgrade or overwrite a non-system object on import.

# **Exporting Control Center Objects**

When exporting alarm types, only local alarm types are exported into the file. For example, the highlighted alarm type would not be exported.

	Overview - System Objects <ul> <li>Alarm Types</li> <li>Alarm Types</li> <li>Alarm Types</li> <li>Alarm Types</li> <li>Alarm Types</li> </ul> <ul> <li>Alarm Types</li> <li>Alarm Types</li> <li>Alarm Types</li> <li>Alarm Types</li> <li>Alarm Types</li> </ul> <ul> <li>Alarm Types</li> </ul> <ul> <li>Alarm Types</li> </ul>								
	0,	Alarm Types							
		Label	Enabled	Description		Site Name	Manual		
٠	🧕 1	Device Alarm	True			Local	True		
٠	🥝 1	Door Alarm	True			Server 007	True		
÷	🧶 2	Real Alarm	True			Local	False		
٠	<u></u> 1	Correlated Alarm Types	True			Local	False		

You can export several objects from Control Center. To export objects:

- 1. Open **System Explorer** and select one or many objects or folders that need exporting.
- 2. Right-click anywhere and select **Export**.



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🗄 💋 Alam Cantrol	🗄 📱 Alam Resolution Form	Eighty Area shjets represent containers th	éranh Digley Area	19(2051:3822.04	
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8 🚺 Alam History	🗄 📱 Nev Résted Alem	Diply Area shiets represent containers th	tanh Digley Area	1(12(20)52:00:01PM	
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- new older grou	🗄 🗍 Denke Chiln 🤰 Riff	en in da come	tins a Root Tenplete	1828561833PM	-
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	B ut	research roless			
	Téclayout 👗 Dele	b .			
	8 📲 Alem Stack 🖗 Oter	te Stotut (DeVe)	Tietayot	106(00525122PM	
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et relected.					🖁 Admini •
					)

- 3. The **Export Wizard** is shown. The wizard will review all referenced objects based on the selected objects and include these in the export if required.
- 4. If an object is not included, click **Remove link** next to the object.
- 5. Click **Next** to continue.

Objects to Export		
🖃 📑 Data Connections		
- 🗐 Alarm Summary	Remove	=
···· 📑 Report Templates	Remove	
🔲 🗐 Video Export	Remove	
🖶 📁 Folders		
🖃 📁 🕼 Generated Reports	Remove	
🚘 Alarm Count Report (2015-01-13 18:00:58) by user: Administrator	Remove	
🚘 Alarm Count Report (2015-02-06 10:48:07) by user: Administrator	Remove	
- 🔤 Alarm Count Report (2015-02-06 15:57:06) by user: Administrator	Remove	
🔤 Alarm Count Report (2015-02-09 13:16:08) by user: Jon Lunnerfeldt	Remove	
🚘 Alarm Count Report (2015-02-10 09:58:15) by user: Jon Lunnerfeldt	Remove	
🔤 Alarm Count Report (2015-02-10 10:23:26) by user: Jon Lunnerfeldt	Remove	
- 🔤 Alarm Count Report (2015-02-10 15:05:11) by user: Jon Lunnerfeldt	Remove	
🔤 Alarm Count Report (2015-02-20 13:07:03) by user: Administrator	Remove	
🚘 Alarm Count Report (2015-02-20 14:45:44) by user: Administrator	Remove	
🚘 Alarm Count Report (2015-02-20 14:46:08) by user: Administrator	Remove	
— 🔤 Alarm Details Report (11496) by user: Administrator	Remove	
🔤 Alarm Details Report (11499) by user: Administrator	Remove	
🚘 Alarm Details Report (11502) by user: Administrator	Remove	
🔤 Alarm Details Report (11507) by user: Administrator	Remove	
- 🔤 Alarm Details Report (14828) by user: Administrator	Remove	
🚘 Alarm Details Report (14979) by user: Administrator	Remove	
🚘 Alarm Details Report (14984) by user: Administrator	Remove	
— 🔤 Alarm Details Report (14997) by user: Administrator	Remove	-

6. A summary screen is shown. Review the objects to be exported and click **Next** to continue.

### CONTROL CENTER 5.28 REFERENCE GUIDE



🔶 Export Wizard	×
Confirm and Export Chosen objects to be exported Folder Reporting Report Viewer Report Viewer E	
C Generated Reports C Video Export C Report Generators Data Connection Report Templates A Report Templates C A Report C Report C A Report	
Tile Layout Proventie L	
Report Manager      Click next to export the specified objects.      Next > Cancel	]

7. The **Export** wizard will save the export to a file. Select a location and a file name for the file to be exported.

rganize 👻 New fo	der				-
Favorites	Documents library Exported Configuration			Arrange by:	Folder 🔻
〕 Downloads	Name	Date modified	Туре	Size	
Recent Places	IPSecurityCenter Modulesaml	03/09/2015 14:35	XML Document	113,940 KB	
<ul> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> </ul>					
S Videos					
-	ecurityCenter Modules.xml				
Save as type: Xm	files (* vml)				

8. The export is started. Progress is shown during the export. Once the export is complete, click **Close** to close the dialog.



Label	Туре	Status
r 📁 💭 Reporting	Folder	Export Complete
- 📁 Report Viewer	Folder	Export Complete
- 📁 💭 Report Manager	Folder	Export Complete
- 📑 Report Templates	Data Connection	Export Complete
🎦 Report Manager Tile Layout	Tile Layout	Export Complete
👰 Report Generator	Graphical User Interface	Export Complete
- 📑 Alarm Summary	Data Connection	Export Complete
🗠 👍 Get Report Template GUI for Row ID	Response Plan	Export Complete
👰 Report Viewer	Graphical User Interface	Export Complete
- 🗾 Video Export	Report Template	Export Complete
👍 Report VRP - Alarm Details	Response Plan	Export Complete
👼 Report GUI - Alarm Counts	Graphical User Interface	Export Complete
👰 Report Manager	Graphical User Interface	Export Complete
🚽 👍 Show Alarm Details Report GUI	Response Plan	Export Complete
- 🔠 Report Viewer Tile Layout	Tile Layout	Export Complete
🛖 Add New Report	Response Plan	Export Complete
- 👍 Report VRP - Alarm Summary	Response Plan	Export Complete
	Response Plan	Export Complete
📁 Generated Reports	Folder	Export Complete
🗝 🔤 Alarm Details Report (15027) by user: Administrator	Media	Exporting

### Importing to Control Center

You can import objects from, for example, a development Control Center environment to a production Control Center environment.

When importing objects to a Control Center environment, you can either:

- Add the imported objects as new objects in your Control Center environment
- Overwrite your existing objects with the imported objects.

You can also import alarm type objects to a Control Center environment.

When you install Control Center, Control Center creates a default system alarm type object. The default system alarm type object is in \**MyOrganization**\**System Objects** folder. In a non-federated Control Center environment, you can only have one system alarm type object. Importing an alarm type object in a non-federated Control Center environment updates the existing system alarm type object.

The default system alarm type object is composed of a combination of individual alarm types, including Alarm Types, Manual Alarm Types, Correlated Alarm Types and Alarm Type Modifiers. There are also other objects within the System alarm type object, such as Alarm Stack Views, Alarm Handling Groups, Alarm Activity Types and Resolution Types.

When importing a system alarm type object to a Control Center environment, for each individual alarm type object, you can:

- Add the imported alarm type objects as new alarm type objects
- Overwrite existing alarm type objects with imported alarm type objects
- Merge existing alarm type objects with imported alarm type objects

While importing, individual alarm type objects are evaluated based on the unique identifier (GUID) associated to the Alarm Type in the database.



### **Importing Control Center Objects**

To import the exported file into Control Center, follow these steps:

1. Open System Explorer and right-click and select Import...



2. The **Import Wizard** appears. Click **Open...** to select the file to import from.

👶 Import Wizard	_		$\times$	
				L
Select the Import File  Import file can contain multiple IPSecurityCenter objects. Open an import file below to view the objects it contains.  Import  Copen  Sologicats to Import				
Next	> [	Cancel		

3. The **Import Wizard** shows all objects found in the file. Validate that these are the expected objects.



🖇 Import Wizard	2 <u>00</u>		×
6			
Select the Import File			
An import file can contain multiple IPSecurityCenter objects. Open an import file below to view the objects it contains.			
Open			
✓       Objects to Import         ✓       COR-6371 Imported Objects         ✓       Map         ✓       Test Button         ✓       Test System Explorer         ✓       Test Template			
	<u>N</u> ext >	Cance	ł

If a <sup>SS</sup> is shown next to any of the objects, this object cannot be imported. The reason why the object cannot be imported is also given, for example, driver not loaded. Depending on your requirements, you can resolve the issue and perform the import again.

### Click Next.

4. The next step in the wizard shows object dependencies. An exported object can reference another object that has not been exported. If there are no dependencies, a **No dependencies to resolve** message is displayed.

port Wizard					<u></u>	
Dbject Dep	oendencies					
	Alarm Types					
	endencies	Original Label	Description	Resolution		
	Group Required	Users				_
	Date/Time Schedule Required	24 x 7 Allow				

5. You can update an object reference to use an existing object. If this is required, right-click on the missing object and select **Search**.

### CONTROL CENTER 5.28 REFERENCE GUIDE



Dependencies	Original Label	Description	Resolution
A Group Required	Users		
🚹 Date/Tir 🔑 Search	24 x 7 Allow		

6. Use the standard Control Center **Search** dialog to find and select the new object to be used. The **Import Wizard** is updated to show that a replacement object has been selected.

Depe	endencies	Original Label	Description	Resolution
$\checkmark$	Group Specified	Users		2 Users
$\checkmark$	Date/Time Schedule Specified	24 x 7 Allow		🚱 24 x 7 Allow

7. Select **Next** to move to the next step. If the file to be imported contains objects that already exist in Control Center these are listed on the next screen. If you are importing alarm types, the following screen displays:

	110	in cype	s, the following set	cerraispiays.			
🎄 li	mport	t Wizard			×		×
G							
	Obj	ject Actions					
	'Ne	ew' action for all 'Ov	verride' action for all				
		Label	Description	Action			
	۲	Alarm Types	System object containing configuration for alarm types and alarm stack views.	New O Merge			
				Nex	>	Cancel	

If you see this screen, go to step 9.

If you are importing any other Control Center objects, the following screen is displayed:



Import	Wizard			×
Obje	ect Actions			
'Nev	w' action for all	Override' action for all		
	Label	Description	Action	
	Demo Simulator	A Folder allows you to lay out your system in the way you wish.	New Override	
	Training Driver	A Folder allows you to lay out your system in the way you wish.	New Override	
				Next > Cancel

If you see this screen, go to the next step.

- 8. **If you are importing Control Center objects** (other than alarm type objects) you can, either:
  - o import all the objects as new objects. To do this, select **New action for all.**
  - override all the existing objects with the imported objects. To do this, Override action for all. By selecting this option, you are effectively merging your existing objects with your imported objects.
  - for each object, decide whether to import the objects as a new object or merge the object with an existing object. To do this, for each individual object that already exists, select:
    - **New,** if you want the imported object to be imported as a new object. Go to <u>step 10.</u>
    - **Override**, if you want the imported object to be merged with the existing object.
    - a. If you select, Override for each individual object or Override action for all, for

each object, select is to display the Control Center **Search** dialog to select an existing object to merge with the imported object.



1014					
		'Override' action for all			
2	Label Alarm Types	Description System object containing configuration for alarm types and alarm stack views.	Action		

- b. Once you have completed this for each individual object, select **Next**. Go to <u>step 10</u>.
- 9. If you are importing alarm type objects, you can, either:
  - import all the alarm type objects as new objects. To do this, select New action for all.
  - override all the existing alarm type objects with the imported alarm type objects. To do this, select **Override action for all**. By selecting this option, you are effectively merging your existing alarm type objects with your imported alarm type objects.
  - for each alarm type object, decide whether to import the objects as a new object or merge the object with an existing object. To do this, for each individual object that already exists, select:
    - **New**, if you want the imported object to be imported as a new object.
      - a. For each of the individual alarm type object, you can choose whether to:



impo	ort W	izard			- 0	×
Ala	arm	Types				
		Label		Description		
-	9	Alarm Types		System object containing configuration for alarm types and alarm	stack views.	
		Label	Descriptio	n	Action	
	Θ	Manual Alarm Ignore			🔘 Ignore 💿 Add	
	Θ	Manual Alarm Add			🔘 Ignore 💿 Add	
	•	Manual Alarm Overwrite			🔘 Ignore 💿 Add	

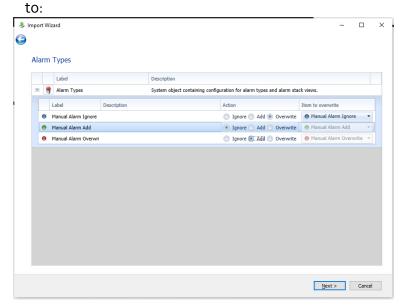
- Ignore. Select this if you want to ignore the imported object. In other words, the existing object remains the same.
- Add. Select this if you want to add the imported object as a new object.
- b. Once you have completed this for each individual object, select **Next**. Go to <u>step 10</u>.
- **Merge**, if you want the imported object to be merged with the existing object.
  - a. If you selected, Merge for each individual object or Override action for

**all**, for each object, select to display the Control Center **Search** dialog to select an existing object to merge with the imported object.

Obj	ject Actions				
'Ne	w' action for all	verride' action for all			
	Label	Description	Action		
۲	Alarm Types	System object containing configuration for alarm types and alarm stack views.	🔘 New 💿 Merge	9	

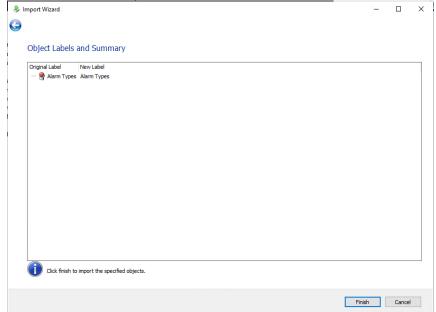


b. For each of the individual alarm type objects, you can choose whether



- Ignore. Select this if you want to ignore the imported object. In other words, the existing object remains the same.
- Add. Select this if you want to add the imported object as a new object.
- **Overwrite**. If you select **Overwrite**, from the **Item to overwrite** drop-down list, select the item you want to overwrite with the imported alarm type object.
- c. Once you have completed this for each individual object, select Next.

10. From the summary screen, validate and click **Finish** to start the import process.





11. Click **Close** once the import has completed to close the dialog.

Import Wizard			- 🗆 X a
G			
Import Completed Suc	cessfully		
Label	Туре	Folder	Status
😭 Alarm Types	Alarm Types	My Organisation \System Objects \	Import Complete
Progress			
			Close Cancel
			Cancel



# **Disaster Recovery**

Control Center has been designed to facilitate a DR (Disaster Recovery) process in the case of complete systems failure. The design provides for an awareness of the environment in which Control Center is operating. The environments supported include:

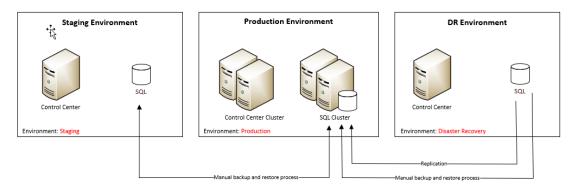
- Production
- Staging
- Disaster Recovery

Certain objects in the system will be assigned an environment. This awareness of different environments will then allow Control Center to initialize and re-home assets accordingly when starting up.

# Configuring the Environment

The diagram below shows an example where replication has been setup between a SQL cluster in a production environment and a single instance on SQL in a DR environment. The databases in the DR environment will continually replicate those in the production environment. Should the production environment suffer an irrecoverable failure then the DR environment can be manually initialized to resume operations with no loss of data. Following the failure of the production environment, SQL replication would be terminated and therefore manual intervention is required to re-establish the production environment, restore the databases and then setup replication.

**Note**: The combination of clustering and single servers shown in the following diagram is used an example only. Control Center imposes no restrictions on the combination of single servers, dual servers with failover, or clusters between environments.



To enable automatic recovery of the solution, every object will be assigned an environment as indicated in the diagram above. While this is available on all objects, it is primarily related to servers, clients, devices, and placeholders. The following things happen:

Assets in either the staging or production environments will only initialize and be available in the corresponding environment.

The disaster recovery environment will automatically take ownership of all assets marked as production, which means re-homing devices onto the DR connection managers.



## **Control Center Configuration**

To configure a Control Center solution to support disaster recovery, you must:

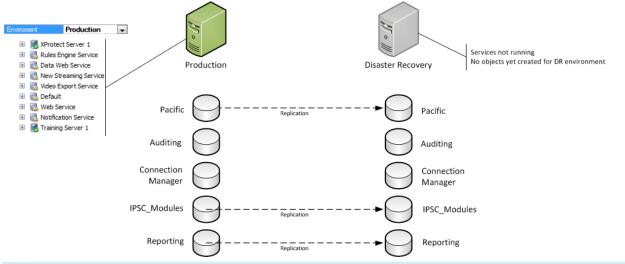
 Install Control Center and configure the solution in the production environment. As each object is added into the solution, the environment setting for certain objects such as servers and services will default to Production. Existing objects created prior to the release and installation of Control Center 4.7.7 will also default to production. This setting can be checked by selecting the object and checking the Environment setting in the property grid.

CarlG-Laptop.cnluk.com	General Settings	
	Core Service	
	Created	9/27/2013 2:54 PM
	Description	Server Computer with the IP hos
	Enabled	True
	Enviroment	Production -
	Fully Qualified Name	CarlG-Laptop.cnluk.com
	Label	CarlG-Laptop.cnluk.com
	Owner	System
	Schedule	No schedule set
	Тад	

- 2. Install Control Center in the staging environment but do not start the services
- 3. Setup replication to publish from the production pacific database to the DR database
  - Replication is not required for any other Control Center databases.
  - Supplementary databases such as IPSC\_Modules will need to be replicated.

**Note**: The license used must include sufficient server allocation to allow for the DR server to be created without any licensing implications

The solution should now be configured so that the production environment contains all required objects for the solution, with the environment set to Production, and the pacific database, together with any supplemental databases, are replicated to the DR SQL instance; this is illustrated below.



Note: The Auditing and Connection Manager databases should not be replicated.



### **Disaster Recovery Process**

When the production system suffers a complete loss, and cannot be recovered, then the Control Center solution can be failed over to a disaster recovery solution.

**Note**: The process to failover to DR is minimal but does require user intervention. This process should only be carried out in extreme circumstances as the process to restore back to the production environment is more intensive.

Assuming the solution has been configured as per the previous section, if production environment fails, the disaster recovery process is as follows:

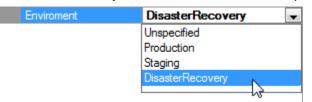
- 1. Ensure that all measures to recover the production environment have been exhausted, otherwise ensure that all Control Center services in the production environment are not running.
- 2. Disable replication.
- 3. Disconnect the replication link between the environments to isolate the DR environment.
- 4. Start all DR services.
- 5. Start the Control Center Server service with the start
- parameter **Environment:DisasterRecovery**. This will create the necessary server and service objects whilst setting the environment to **DisasterRecovery**. The server will then automatically rehome all devices from the production connection manager service(s) over to the disaster recovery connection manager service(s).
- 6. Log every client into the DR server. This will update the list of known servers so that users can easily log in without manually specifying the DR server address.

For more information on creating a response plan to automate this process, see <u>Automated Client</u> <u>Log In/Out Process</u>.

## **Manual Failover**

If you started the Control Center Server service in a Disaster Recovery environment without the **Environment:DisasterRecovery** start parameter, then you must perform the process manually.

First, set the **Environment** property on all objects corresponding to the DR environment to **DisasterRecovery**. This will include all corresponding servers, services and clients.



In addition, ensure to manually rehome all devices from System Configuration in Control Center.

To rehome devices from one Connection Manager to another, simply right-click a device (typically the parent server), select **Rehome Device** from the context menu and then specify the new connection manager.

**Note**: This will update all connected devices, therefore rehoming the parent server will also rehome all child devices.



# Automated Client Log In/Out Process

When switching to a Disaster Recovery server, the connected clients would have never connected to the server previously. This means that when wanting to log in, each user would have to manually enter the server details to connect. The following response plan show an example where a response plan can be used to automatically log each client in and out of the DR server. This will then update the list of known servers on each client so that the user can simply log in without specifying a server address.

**Note**: This requires an account which allows multiple log ins. Security should also be considered as users may be able to operate the workstation during this process using the designated account therefore permissions should be restricted.

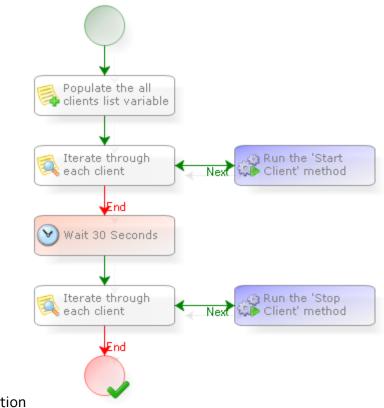
The following steps describe creating a response plan which can be used to automatically log in and out all clients. This can then be used from main menu for example.

1. Create a response plan with the following variables:



- 2. Add the following:
  - $\circ$  Add to List
  - Iterate Collection
  - o Dynamic Action
  - Wait Iterate Collection





- Dynamic Action
- 3. Configure the **Add to List** shape to populate the client list variable with all clients using the **Computers** (or otherwise) folder.

۵	Optional	
	Include Child Folders	True
۵	Required	
	Folders to search	1 Object 🔹
	List Variable	AllClients
	Objects to Add	0 Objects

4. Configure both Iterate Collection shapes to iterate through the client list variable.

۵	Optional	
	Reference	
۵	Required	
	Current Value	CurrentClient
	List Variable	AllClients

5. Configure the first **Dynamic Action** shape to call the Start Client method on the CurrentClient variable.

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# everbridge®

📲 Start Client	×				
Run the Start Client fur	nction				
Starts the Control Room Client on this PC					
Specify required information to run the function					
To run the requested function the f fill in the properties below and click	ollowing information is required. Please OK to continue.				
<b>2</b> ↓					
Start Client					
Hide Server Details	False				
Name of User	UserName				
Password	Password				
Server	ServerAddress				
Server Port	9001				
Hide Server Details Hides the advanced section on the client login dialog.					
	OK Cancel				

- 6. Configure the **Wait** shape to pause the response plan for a suitable duration to allow the clients to fully log in before logging them out.
- 7. Configure the second **Dynamic Action** shape to call the Stop Client method on the CurrentClient variable.



# **Failover Clustering**

Windows Server Failover Clustering is a feature of the Windows Server platform that helps improve system availability. Wherein, if one server fails, another server begins to provide service in its place.

Microsoft defines a failover cluster as follows:

A failover cluster is a group of independent computers that work together to increase the availability of applications and services. The clustered servers (called nodes) are connected by physical cables and by software. If one of the cluster nodes fails, another node begins to provide service (a process known as failover). Users experience a minimum of disruptions in service.

(Microsoft.com, 2011)

For comprehensive documentation on Failover Clustering, please refer to the Microsoft website:

http://technet.microsoft.com/en-us/library/cc732488(WS.10).aspx

Control Center supports the Windows Failover Clustering (WSFC) features so that a second instance of Control Center can be started with no user intervention, if a server or Control Center fails.

While Control Center is restarting, a message is displayed informing the users that the Control Center Client is attempting to reconnect.

During this time, the user can continue to view the video devices.

Once the connection is re-established, the client resumes normal operation.

Microsoft Windows Failover Clustering can be used to improve the availability of Control Center. Failover clustering provides automated recovery in the event of the following incidents:

- Hardware failure
- Operating system failure
- Control Center Server termination

# **Configuring Failover Clustering**

The following is required:

- A Microsoft SQL Cluster should be available for Control Center deployed in accordance with Microsoft SQL best practices. Control Center requires a permanently available database connection, that is, if SQL Server is not available, Control Center will not be available.
- All machines should be members of a domain.
- Shared storage for clustering. Shared storage will be available and preferably an always available SAN.
- MSMQ to be setup as a high availability resource group.

# **Control Center Services**

The following Control Center services need to be deployed in the MSMQ Resource Group:

• AlarmTypes



- Audit
- Federated
- GIS
- Notification
- Report Server
- Rules Engine
- Security
- Server

The following Control Center services are not deployed in a cluster:

- Video Export
- Monitoring Service
- Connection Manager

The Connection Manager provides a native failover. See <u>Connection Manager Failover</u> for more information.

When Control Center Services are deployed in a clustered environment, the Load Balanced Host Name will be the address of the cluster, not the node.



# Internationalization

Control Center supports multiple languages where you can select your preferred language when logging into the Client. However, currently only the front-end interface is localized, which does not include any of the administration or configuration screens, nor does it currently support text direction other than left-to-right.

Various tools and processes are included with the release of Control Center to facilitate the import and export of text in the solution.

The languages in Control Center can be categorized into two categories: static and dynamic.

- Static references References held within the product and cannot be changed.
- Dynamic references References created as the solution is built using the toolkit components.

The product currently includes the following language packs:

- English (US)
- Arabic

### Internationalization Prerequisites

Ensure that the following prerequisites are met in SQL Server Management Studio before extracting language references from the solution for translation:

- Enable the Include column headers when copying or saving the results option. This option is located under **Tools**> **Options**>**Query Results** > **SQL Server** > **Results to Grid**.
- Enable the Quote strings containing list separators when saving .csv results option in Microsoft SQL Server Management Studio. This option is located under Tools> Options> Query Results > SQL Server > Results to Grid.

# **Configuring Internationalization**

Control Center is installed with English (US) as the default language. Additional languages can be introduced into a solution which will then show up throughout the system in the user interface.

Note: Only English (US) and Arabic (Saudi Arabia) are currently supported in Control Center.

To specify additional languages into a solution, create a new entry in the Languages tab of Global Settings by following these steps:

- 1. From the **System Configuration** dialog, click the **Global Settings** toolbar button.
- 2. From the menu on the left of the dialog, select Languages.
- 3. Enter a label for the new language entry into the textbox labeled Label:
- 4. Specify a language from the drop- down labeled Language, for example, Arabic (Saudi Arabia).
- 5. Click **Add**end then click **OK**.



Additional languages will then be shown as available language options on the login dialog. The user will then be able to select their preferred language and then login to see the user interface in their selected language.

**Note**: All dynamic text must be translated prior to the solution being used. The follows sections will discuss how to convert the dynamic solution data; for example, GUI labels or menu button labels.

### Exporting Dynamic Text Ready for Localization

Control Center comes packaged with localized text for all static text values in the product, however all dynamic text in the solution must also be translated.

This is split into two separate areas. The first area is the object labels and descriptions, which includes alarm type activity and resolution types. The second area is the GUI control text. Each area must be exported separately, translated, and imported back into the solution.

# **Exporting Object Labels and Descriptions for Localization**

This section describes the steps to export the dynamic text into a CSV file ready for translation.

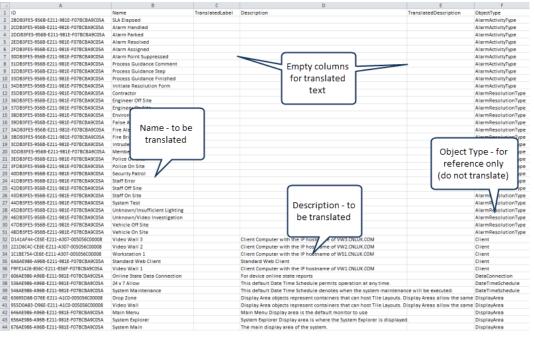
To export the dynamic text into a CSV file:

- 1. Open the SQL Server management Studio.
- 2. Connect to the SQL Server instance containing the Control Center pacific database for the configured solution.
- 3. Expand Databases.
- 4. Right-click on the pacific database and then click **New Query**.
- 5. Enter the following SQL and then press F5.



EXEC IPSC. Translations List

- 6. Right-click in the results window and then click Save Results As....
- 7. Save the results as a CSV file.
- 8. The name and description columns (columns C and D) must then be translated into their neighboring columns (C and E) ready to import back into Control Center.



# Exporting GUI Control Text for Localization

The English text for all the GUI controls must be exported into a CSV file so these can also be translated.

Each GUI lists all the control text in the database which can be localized. This occurs when the GUI is saved. Therefore, any logic which has been imported or existed in the solution before the Internationalization feature was introduced will not contain the relevant GUI control text entries in the database. To ensure the database contains all the relevant GUI control text for translation, open and save every GUI before exporting the data. An enhancement has been logged on the roadmap to perform this process automatically.

**Note**: Open and save all GUIs which require translation to ensure the database contains all the relevant text.

To export all GUI control text:

- 1. Open SQL Server management Studio.
- 2. Connect to the SQL Server instance containing the Control Center pacific database for the configured solution.
- 3. Expand Databases.
- 4. Right-click on the pacific database and then click **New Query**.
- 5. Enter the following SQL and then press F5.



```
SELECT* ,''as TranslatedText
FROM IPSC.GraphicalUserInterfaceControlLC
WHERE CultureId='Default'
```

- 6. Right-click anywhere in the Results window and then click Save Results As...
- 7. Save the results as a .CSV file.
- 8. The text in Text column (F) must then be translated ready to import back into Control Center.

a.	A	8	С	D	E	F	G	н
1	ID	GraphicalUserInterfaceID	CultureId	ControlName	PropertyName	Text	LastModified	TranslatedText
2	4FD932DD-6C70-E211-8B83-F07BCBA9C05A	78082323-6870-E211-8883-F078C8A9C05A	Default	guiButton2	Text	Clear	52:45.4	
3	50D932DD-6C70-E211-8B83-F07BCBA9C05A	78082323-6870-E211-8883-F078C8A9C05A	Default	guiButton2	Confirmation Text		52:45.4	
1	51D932DD-6C70-E211-8883-F07BCBA9C05A	78082323-6870-E211-8883-F078CBA9C05A	Default	guiButton1	Text	Load	52:45.4	
5	52D932DD-6C70-E211-8B83-F07BCBA9C05A	78082323-6870-E211-8883-F078CBA9C05A	Default	guiButton1	Confirmation Text		52:45.4	
	53D932DD-6C70-E211-8B83-F07BCBA9C05A	78082323-6870-E211-8883-F078C8A9C05A	Default	guiSearchControl1	Title		52:45.4	
	54D932DD-6C70-E211-8883-F07BCBA9C05A	7B0B2323-6B70-E211-8B83-F07BCBA9C05A	Default	guiSearchControl1	Description		52:45.4	
	6BC3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_0_label	Text to be	28:37.0	
	6CC38A9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab 0 Group 0 label		28:37.0	
ŝ	6DC3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab 0 Group 0 Item 0 label	translated		
Ē	6EC3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_0_Group_0_Item_0_description			
ź	6FC3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab 0 Group 0 Item 0 tooltip			
3	70C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_0_Group_0_Item_0_tooltipdescription		into her	
	71C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_label	Report	into ner	2
	72C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_label	reports		
ŝ	73C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_Item_0_label	auditing reports		
ł,	74C3BA9E-8270-E211-8B83-F07BC8A9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_Item_0_description	_	28:37	
	75C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_Item_0_tooltip		28:37.0	
i,	76C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_Item_0_tooltipdescription		28:37.0	V
I.	77C3BA9E-8270-E211-8B83-F07BC8A9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab 1 Group 0 Item 1 label	alarm reports	28:37.0	1
	78C3BA9E-8270-E211-8B83-F07BCBA9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_item_1_description		28:37.0	
Ł	79C3BA9E-8270-E211-8B83-F07BC8A9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab_1_Group_0_Item_1_tooltip		28:37.0	
	7AC3BA9E-8270-E211-8B83-F07BC8A9C05A	CA7F1244-D4D2-4DCA-9D21-786973550688	Default	guiRibbon1	Tab 1 Group 0 Item 1 tooltipdescription		28:37.0	
i	1004F89B-8B6C-E211-856F-F07BCBA9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtFirstName	Text		22:45.7	
Ì	1104F89B-8B6C-E211-B56F-F07BCBA9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtFirstName	Title	First Name	22:45.7	
ñ	1204F89B-886C-E211-856F-F078C8A9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtFirstName	Description		22:45.7	
ŕ	1304F898-886C-E211-856F-F078C8A9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtLastName	Text		22:45.7	
í	1404F89B-8B6C-E211-B56F-F07BCBA9C05A	151499A0-856C-E211-856F-F078C8A9C05A	Default	txtLastName	Title	Last Name	22:45.7	
	1504F898-886C-E211-856F-F078CBA9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtLastName	Description		22:45.7	
0	1604F898-886C-E211-856F-F078C8A9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtPhoneNumber	Text		22:45.7	
t	1704F89B-886C-E211-B56F-F07BCBA9C05A	151499A0-856C-E211-B56F-F07BCBA9C05A	Default	txtPhoneNumber	Title	Phone Number	22:45.7	

# Importing Localized Object Labels and Descriptions

You can import translated text into Control Center by importing the data from the translated CSV into a temporary database table in pacific database called dbo.translations, and then finalize by running a stored procedure to update the various pacific tables with the imported data.

To import translated text into Control Center:

- 1. Open SQL Server management Studio.
- 2. Connect to the SQL Server instance containing the Control Center pacific database for the configured solution.
- 3. Expand Databases.
- 4. Expand the pacific database > tables node.
- 5. Delete the table *dbo.translations* if it exists.
- 6. Right-click the pacific database, point to Tasks, and then click Import Data...
- 7. Click **Next** on the **Welcome** page. On the **Data Source** page, choose **Flat File Source** from the drop-down.
- 8. Specify the file name by clicking the **Browse** button, locating the CSV file containing the translated text and then clicking **Open**
- 9. Select the Column names in the first data row option.
- 10.Click the **Advanced** option on the left-hand menu.
- 11. Select each column in turn and set the **OutputColumnWidth** value to **250** for all columns.
- 12. Click **Next** to continue to the destination page.
- 13. Ensure that the specified server name is correct.
- 14. Specify valid authentication details.

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- 15. Ensure the specified database is pacific, and then click **Next** to continue.
- 16.Ensure that the destination table is called [dbo].[translations], then click Next to continue.
- 17. Ensure that the **Run immediately** option is checked, then click **Next** to continue.
- 18.Click **Finish** to begin the data import. Once the data has been imported into the translation database table, follow the steps below to copy the translated data into the relevant database tables in pacific.
- 19.Right-click in the pacific database and then click **New Query**.
- 20. Enter the following SQL and then press F5:

EXEC IPSC.Translations\_Translate

21. The translation table can be deleted as the stored procedure that was executed previously would have copied the data through the database into the relevant tables.



# Video

Control Center enables you to view live and recorded video. You can access a video by dragging a camera from the System Explorer or a map to a tile. See Tile Layouts.

Geutebruck GeViScope Camera

🗄 嘴 1: GB GSC TestLab 1 🛛 Our high-end video system platform for security exp...

🗉 嘴 2: GB GSC TestLab 2 🛛 Our high-end video system platform for security exp...

# Video Sequences

Sequences enable you to configure and deploy Video Management Systems.

Typically, a Sequence takes the outputs from the specified CCTV cameras and displays them to an operator in a sequence of tiles. A Sequence includes preset dwell times between camera changes and can also be paused, stepped forward, and stepped backward using the Tile toolbar. The Sequence can be set to run through indefinitely or only once. This gives the operator a standard sequence while retaining the flexibility to control what they see. In addition, the operator can even save snapshots of the displayed content.

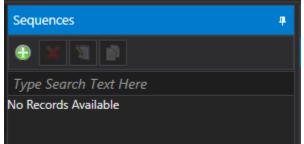
### **Video Prerequisites**

As a sequence scrolls through multiple camera devices, you must first specify camera devices in Control Center.

### **Configuring Video Sequences**

To create a sequence:

 From System Explorer>Sequences menu, click + to create a new sequence or right-click anywhere in Overview - System Objects pane to select New> Sequence. A sequence is added to the System Object pane. Sequences can be saved globally, that is, you can save sequences local to the user or shared across all users.





2. Open the new sequence. The New Sequence page appears.

New Sequence					
Sequences					
Label Description ■ Allow all users to access the Sequence					
💡 Available Assets:	<i>9</i> 1	Sequence Steps:			
Type Search Text Here		abel	Dwell [Secs]	Preset	
	10	Include children on Loc ✓ Continuous cycling 伊 Default dwell time (seco			
			<u>0</u> K	<u>_</u>	ancel

**Note**: The **Sequences** dialog displays the same view as the System Explorer if the base location is configured in the System Explorer.

- 3. Enter the following parameters in the **Sequence** dialog:
  - Label The name of the sequence, for example Test Sequence.
  - **Description** A brief description of the sequence.
  - Allow all users to access the sequence Selecting this enables the Location search field and you can save the sequence to a Control Center folder or location by specifying a location for the Test sequence (sample sequence).
  - Location The folder location of the sequence, for example, System Objects. This field is available only if the Allow all users to access the Sequence check box is selected.
  - Available Assets The camera devices available to the logged in user that can be used in this sequence. To search for a known device, type the name of the device into the Search field or use the Available Assets hierarchy to find it in the device location tree.

**Note**: You can apply standard permissions as the object is in the folder hierarchy.

**Note**: A camera might appear in a Sequence multiple times. This might occur when an area needs to be monitored more frequently. Alternatively, a PTZ camera can be included more than once but with a different preset.

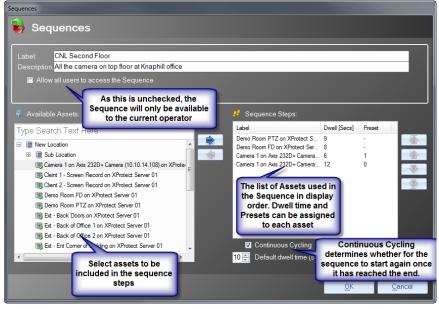
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- 4. Drag the Location into the sequence steps and select the check box **Include children on Locations** to enable all the cameras in that location to be used in the sequence.
- 5. Find a device in the **Available Assets** list and move it to the **Sequence Steps** field using the right arrow button or drag and drop it to the list.
- 6. The **Available Asset** is included as the first item in the sequence. For a sequence to work, it needs to include more than one device.
- 7. Continue to add devices to the sequence steps until there are three or four devices in the sequence steps.
- 8. You can choose devices from all locations configured as root nodes for each base folder in **System Explorer** if the base location is configured in **System Explorer**.
- 9. To reorder the sequence steps, use the Up and Down arrow buttons until the devices appear in the order that they should be sequenced.
- 10. The sequences steps are populated with the required devices in the order they should appear in the sequence.
- 11. By default, the dwell time on each camera in the sequence is 10 seconds. The default time can be changed in the **Default dwell time (seconds)** field. Once the default dwell time is changed, it applies to any new devices added to the sequence steps.
- 12. Dwell time for devices already in the sequence can be changed.
- 13. To set the dwell time of each camera already in a sequence, click the **Dwell (Secs)** field next to the first camera to enable it. The **Dwell** field is enabled.
- 14. Use the Up/Down arrows to increase or decrease the dwell time on the selected device.
- 15. Click the Preset column to save the **Dwell** changes and view the next feature.

**Note**: Presets refer to preset camera configurations of PTZ cameras. PTZ is an acronym for pan, tilt, and zoom and reflects the movement options of a camera. Each time a Sequence displays a PTZ camera, the Sequence can specify what preset position to display. A PTZ camera with multiple Presets can be used multiple times in a Sequence with a different Preset defined for each camera, for instance.

- 16.To specify a **Preset** position for a PTZ camera, click **Preset** next to the camera. Use the Up/Down arrows to specify the **Preset** number to display at this stage of the sequence.
- 17. Click away to save the preset changes.





### To repeat the Sequence indefinitely:

Select the **Continuous Cycling** check box and then click **OK**.

Test that the sequence appears in the list of available **Sequences**.

### To view and use a Sequence:

Highlight the sequence in the list of available **Sequences** and drag it into the tile. The first camera in the sequence appears in the tile.

As a sequence is being played on the tile, the active camera shows highlighted in the map area and the System Explorer.

### To delete a Sequence:

Highlight the sequence in the list of available sequences and click **Delete** in the toolbar. The sequence is deleted from the list of available **Sequences**.

### To edit a Sequence:

- 1. Highlight the sequence in the list of available **Sequences** and click **Edit** in the toolbar or double-click it in the **Sequences** list. The **Sequence Editor** is displayed.
- 2. Make any changes and click **OK** to save them.

**Note**: Changes made to a Sequence that is currently displayed in the Tile Display may not appear until the active window is closed and reopened.

### To copy a Sequence:

- Highlight the sequence in the list of available Sequences and click Copy in the toolbar. The sequence is copied and appears in the Sequence list with the same name as the original appended by the word - Copy
- 2. Open the new sequence by clicking **Edit**ing the toolbar (or double-click the sequence in the list). The **Sequence Editor** appears.

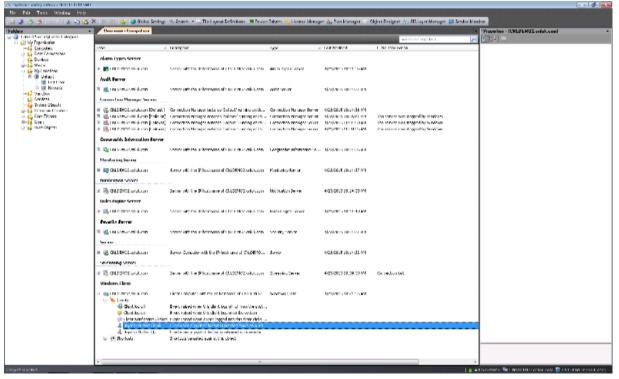


3. Rename the Sequence and make any changes. When finished, click **OK**. The renamed Sequence appears in the list of available Sequences.

# Joystick

Control Center supports the DirectX joystick interface. This can be used to pan, tilt, and zoom a selected camera. In addition to this, Control Center also supports joystick button events.

When viewing a camera, pressing a Joystick button will trigger two events on the Windows Client object: first the Joystick Button Down event and then the Joystick Button Up event.



Link the events to a response plan to implement the button events functionality. The events will include the following metadata:

Button pressed	The Joystick button that was pressed
Current Server	The Control Center Server that the Joystick is connected to
Date Time	The Date/Time of the event
Device	The selected camera
Sender	The Windows Client to which the joystick is connected
User	The user logged into the client to which the joystick is connected

In addition, the Joystick Button Up event also has a property ButtonPressedDuration, which returns the duration for which the button was pressed for.



# Taking Snapshots From Video

You can save snapshots from live or recorded video to your local disk and as a media file in Control Center. This is useful if you want to send a snapshot to a third party or if the snapshot is required in another company system, for example.

- Select state snapshots of a video without opening the Preview Snapshot window. For example, if you are not able to re-wind or fast forward the video easily and you want to take multiple screenshots in one playback session.
- Select **b** to open the **Preview SnapShot** window. As well as previewing a snapshot, you can also change the snapshots appearance. For example, you can highlight areas of the video, add text, resize the snapshot or add effects. See <u>Previewing or Changing a Snapshot</u>.

### Taking Quick Snapshots

Select to take snapshots of a video without opening **Preview Snapshot** window. For example, if you are not able to re-wind or fast forward the video easily and you want to take multiple screenshots in one playback session. By default, the media files are saved as .bmp files. The filename is the camera name, date and time the snapshot was taken. For example, **UK-CAM-o2-Building Entrance 25-03-2021 14-32-53-643**.

By default, the snapshot media files are saved in

- Entire Enterprise\My Organization\User Objects\Administrator Objects\My Snapshots in Control Center
- \%userprofile%\Documents\IPSecurityCenter Snapshots on your local disk. See <u>Saving</u> snapshots to a disk.

If you are handling an alarm and you select to take a snapshot of the video from the camera that generated the alarm, the snapshot is saved in Entire Enterprise\My Organization\System Objects \Alarm Media\Alarm ID where ID is the ID of the alarm you are handling.

You can change the media file format and saved snapshot file path in **Global Settings**.

- 1. Go to System Configuration > Global Settings.
- 2. Select Enterprise Settings.
- 3. Navigate to **Camera**.
  - In **Video Snapshot Path**, type the file path where you want your snapshot media files to be saved.
  - Select the media file format from **Snapshot Image Format** drop-down list.

You can disable this feature completely by leaving the **Video Snapshot Path** box empty. See <u>Configuring the path for saving snapshots</u>.

### Previewing or Changing a Snapshot

Select **b** to open the **Preview SnapShot** window.

The snapshot can be:

saved to disk



- saved as a media file in Control Center
- attached to an alarm.

The options that are available to you when you select **D**, depend on how your Control Center Administrator has configured how snapshots can be used in Control Center. This means that you may not have some of the options described below.

Preview Snapshot						□×
Information User: Camera: Server: Image Description:	System Administrator VLC Video Source 1 (Unknown)	Current Time: Frame Time: Location:	2018-11-29T08:45: 2018-11-29T08:45: Default			
r Image ————				H		
Snapshot file location: <u>C</u>	:\Users\int_admin\Documents\IPSecurit	yCenter Snapshot	Print Image	Save As Media	Save To Disk	Cancel

- 1. Select I from the tile layout displaying the camera whose video you want to take a snapshot of. The **Preview Snapshot** dialog displays. The **Information** panel displays:
  - **Username** of the user who created the snapshot.
  - Camera name whose video this is a snapshot of.
  - Server where the camera resides.
  - **Current Time** the snapshot was created.
  - Frame Time reported by the sub-system when the snapshot was created.
  - Location in Control Center where the snapshot was taken.
- 2. Optionally, add an Image Description for the snapshot.
- 3. Use the tools in the **Image** panel, to make any changes required to the snapshot.
- 4. Select **Snapshot File Location** to browse to the location where you want to save the file.



### 5. Select one of the following:

Option	Description		
Email	Select this to enable the <b>Send Email</b> button. This option is only available when the SMTP settings are enabled in the <b>Global</b> <b>Settings</b> dialog.		
Send Email	Sends an email of the snapshot to another user. This requires the <b>SMTP (Email) Global Settings</b> to be configured correctly. The snapshot is also saved to the database.		
	Attach the snapshot to the alarm that is currently being handled. <b>Attach to Alarm</b> is only available if you are handling an alarm in Control Center.		
	The snapshot is saved in the <b>System Configuration</b> > <b>System</b> <b>Objects</b> > <b>Alarm Media</b> folder. In a federated system, once the snapshot is saved as a media object, you can publish it to other sites in your federated system, if required.		
Attach to Alarm	If you have process guidance configured, you will see <b>Map</b> <b>Snapshot</b> or <b>Camera Snapshot</b> in the alarm activity grid when you are completing the alarm resolution form.		
	<ul> <li>Notes:</li> <li>You can attach multiple images to the same alarm as long as the alarm is in a handled state by your current user.</li> <li>You cannot have more than one alarm handled by the same user in Control Center.</li> <li>The snapshot is saved to the [Alarms].[AlarmActivity] table in the Control Center database.</li> </ul>		
Print Image	Print the snapshot.		
Save As Media	Save the snapshot as a media object in Control Center. When a snapshot is saved as a media object, it is stored in <b>SystemConfiguration &gt; User Objects &gt; Snapshots</b> folder. For federated node sites, snapshots stored with the user objects folder are federated to any configured hub.		
Save to Disk	Save the snapshot to the location you specified in <b>Snapshot File</b> Location.		
Cancel	Cloe the <b>Snapshot Preview</b> dialog without saving the snapshot.		



Once you have created your snapshot, you can open it in any image viewer.

**Note**: Auditing Server supports options for auditing printing or saving of video snapshots regardless of whether they are saved to disc or to the database.

### Saving Snapshots to a Disk

The snapshots taken from a video can be saved locally on your system for easy access. The default folder in which the screen shots are saved need to be pre-defined. This path is specified in the **Enterprise settings** configuration under the **Global Settings**. To set the file save path, do the following:

- 1. Go to System Configuration window.
- 2. Click on the **Global Settings** tab in the Top Menu ribbon.
- 3. Select Enterprise Settings from the left pane options.
- 4. In the right window, for the **Video Snapshot Path** variable, specify the destination path name in which you wish to store the snapshots.
- 5. Click on **Apply**.

This path will now be used to store all snapshots being saved on disk. The saved path is displayed on the **Preview Snapshot** window as shown in the picture below. This is a read-only link which can be edited in the **Enterprise Settings** only, by a user with administrative rights. Nevertheless, any user will still be allowed to click on the link to navigate to the folder in which the images are being stored.

Preview Snapshot						□ ×
r Information						
User:	System Administrator	Current Time:	2018-11-29T08:45	:30Z		
Camera:	VLC Video Source 1	Frame Time:	2018-11-29T08:45	:30Z		
Server:	(Unknown)	Location:	Default			
Image Description:						
				-1		
r Image						
		1	_			
		-				
				20		
		B Die M				
Snapshot file location:	C:\Users\int_admin\Documents\IPSec	urityCenter Snapshot	s Print Image	Save As Media	Save To Disk	Cancel



Upon successfully saving the image on to the disk, a confirmation message will be displayed along with the path in which it was saved on the disk, which will typically be the path established in the Enterprise Settings. In the circumstances where the pathname is not specified or is invalid, the save to disk Option will be disabled as seen in the figure below. On clicking the read only path link, an error message will be displayed to the user prompting that the pathname is invalid and needs to be changed for storing the images locally.

Preview Snapshot						□ ×
Information User: Camera: Server: Image Description:	System Administrator VLC Video Source 1 (Unknown)	Current Time: Frame Time: Location:	2018-11-26T08:29:45Z 2018-11-26T08:29:44Z Default			
r Image	Failed to open snapshots folder The system cannot find the file spec	ified			×	
				ок		
Snapshot file location: <u>C</u>	::\Users\int_admin\Documents\IPSecurity	/Center Snapshots	Print Image	Save As Media		Cancel

If the save was unsuccessful, due to the file path not accessible or the user not having the rights to save in that location, an error message will be displayed along with the path attempted to reach.

### Configuring the Path for Saving Snapshots

The Administrator can set the default path in which the snapshots will be stored across all sites in Enterprise Settings and publish it. This can be achieved by using the windows environment variable or creating a user defined environment variable within Control Center.

The environment variable is used to place dynamic value in the path name which is populated by the local system when the process is running at a local site.

Note: The environment variable can be an entire file path or can be used to define a part of it.

For example, if the images have to be stored in users\documents\IPSC snapshots folder, the administrator can set the video snapshot path variable in Enterprise Settings configuration as follows:

Video Snapshot Path %userprofile%\Documents\IPSCSnapshots



15		Enterprise Settings Configuration		
onment Variables		onfigure Enterprise Settings		
Reporting				
uages	En	terprise Settings: 🦃 Local Enterprise Settings		
ity		Name	Value	
Reporting		Alarm		
g		Enable Batch Processing Of Alarm Notifications		
onfiguration		Authorization		
o Wall		Authorization for accessing System Configuration request timeout		30
		Authorization required for accessing System Configuration		
		Enable Configuration Authorization for Admin Interface		
		Enable Location Based Configuration Authorization		
	_	Camera		
		Add Snapshot Information		
		Auto-enable PTZ Behavior		
		Enable Location Quotas		
		Enable Snapshot Editing	<b>V</b>	
		Snapshot Image format	Native	
		Snapshot Information Date-Time format	True	
		Snapshot Information use client Local Time		
		Video Snapshot Path	%userprofile%\Documents\IPSecurityCenter Snapshots	

Where *userprofile* is windows defined environment variable which dynamically gets the value of it from the local system to populate the entire file path name.

You can also create environment variables in Control Center to be used within the application. The variable names need to be unique and care must be taken that they are different to the ones used by windows. If a variable is created which matches the windows environment variable name but has different value to it, Control Center looks for the value within Control Center first and uses it. If you intend to use the value assigned by the windows, either use the standard variable name specified by the windows system or use a different variable name.

### Creating an Environment Variable

To create a Control Center specific environment variable, you need to:

1. Go to **System Configuration** and click on the **Global Settings** tab in the main toolbar ribbon on the top.



2. In the left pane, select **Environment Variables** which will take you to the screen below.

larms invironment Variables	🥌 Environ	ment Variables		
nterprise Settings	Configure Environ	nent Variables		
rror Reporting anguages	Name		Value	
QL Reporting tyling JI Configuration 'ideo Wall	F	New Variable Edit		
		Delete		

- 3. Right click in the window on the right to show up the Menu.
- 4. Select **New variable** option to create a new variable.
- 5. Populate the **Variable** name and **Value** field.
- 6. Click on **Apply**. A new environment variable is created to be used within the Control Center setup.

### **Note**: You can also edit a variable and delete it as required.

Furthermore, two environment variables can be defined to hold file path names and concatenated to make an entire path where the images can be stored. During this process if the system detects more than one \ in its path it will automatically be removed.

### Snapshot - Save As a Media File In Control Center

The screen shots grabbed from a video can be stored as a media file in Control Center. When a snapshot is saved as a Media object, it will be stored in the User Objects >Username Objects > My Snapshots folder accessible from System Configuration.

For Federated Node Sites, snapshots stored within the **User Objects** folder will be federated to any configured Hub.



olders 🔻	Overview - My Snapshots		Properties - (My	Snapshots)
Type Search Text Here         Image: Entire Enterprise         Image: Entit	Search in My Snapshots         Label         Media <ul> <li>VLC Video Source 1 22-11-2018 05</li> <li>VLC Video Source 1 26-11-2018 08</li> <li>WLC Video Source 1 26-11-2018 08</li> <li>WLC Video Source 1 26-11-2018 08</li> <li>WLC Video Source 1 26-11-2018 08</li> </ul>	-29-22 -42-32 -46-12 -46-56 -46-56	General Setti Greated Description Enabled Environment Label Owner Tag Permissions Security	
My Snapshots     My Tile Layouts     Generation     Generation			Created The date and time o	f when this object was first created.

When you click on **Save as Media**, the snapshot will be saved in the location shown above and a message will be flashed to the user to confirm the action.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



Preview Snapshot					
Information User: Camera: Server: Image Description:	System Administrator VLC Video Source 1 (Unknown)	Current Time: Frame Time: Location:	2018-11-26T15:41:17 2018-11-26T15:41:17 Default		
Image —	Contractions in the same of th	vas saved as a me	edia object in the syste	m. OK	
Snapshot file location: <u>C</u>	\Users\int_admin\Documents\IPSecurity	Center Snapshot	s Print li	nage Save As Media	Save To Disk Cancel

#### Alarm Snapshots

You can save a copy of an alarm snapshot as a media object and reuse it when generating reports specific to alarms. Selecting **Attach to Alarm** from the **Preview Snapshot** dialog can be used to perform the following functions:

- Attach an image coming from the driver to an alarm in the form of snapshots
- Attach the image to a currently handled alarm
- Link to any alarm that's currently being handled
- Federate the alarm attachment details to applicable sites

**Note**: You must be handling an alarm in Control Center for the **Attach to Alarm** option to be displayed.

- 1. Log in to Control Center and display a camera on a tile.
- 2. From the tile where the camera is being displayed, click **Save as Snapshot**. The **Preview Snapshot** dialog appears.

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nformation ———				
User:	System Administrator	Current Time:	2018-10-23T10:59:58Z	
Camera:	7: GB GSC TestLab 6 - PTZ	Frame Time:	2018-10-23T10:59:57Z	
Server:	GeViScope Server 1	Location:	Video Camera	
Image Description:				
mage				
mage				
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Image				

3. Label Description Last Modified Extra Inform Type Media + 1\_GB GSC TestLab 1 03-09-2018 09-22-15 for alarm 2 Media 9/3/2018 10:22:44 AM + 1\_GB GSC TestLab 1 03-09-2018 14-35-01 for alarm 4 Media 9/3/2018 3:39:18 PM + 1 GB GSC TestLab 1 31-08-2018 16-41-00 for alarm 1 Media 8/31/2018 5:42:47 PM

**Note**: You can attach multiple images to the same alarm as long as the alarm is in handled state. You cannot have more than one alarm handled by the same user in Control Center.

4. An additional alarm activity is added to the alarm. A new view in the database provides access to the snapshots for an alarm. This can be used when creating reports. The view is called [pacific].[IPSC].[AlarmSnapshotActivityView].

#### **Snapshot Time Zone**

When configuring the date/time format that is displayed in your snapshot information, you can use:

- The default: yyyy-MM-ddTHH:mm:ssK
- Your own custom date/time format
- The local date/time of the client



#### Using Default Date/Time

The date/time format for the saved snapshots conform to ISO 8601.

The format used to display time and date is: yyyy-MM-ddTHH:mm:ssK

In this context, the T character separates the date and time components and the K character is the offset from UTC and this is appended to the time in the same way that Z was above, in the form  $\pm$ [*hh*]:[*mm*]. So, if the time being described is one hour ahead of UTC (such as the time in Berlin during the winter), the zone designator would be +01:00, +0100, or simply +01. To represent a time behind UTC the offset is negative. For example, the time in New York in winter is UTC-05:00. For more information on configuring Time Zones, see the *Control Center Installation Guide*.

#### Using a Custom Date/Time Format

You can define your own custom date/time formats. To do this:

- 1. Go to System Configuration.
- 2. Select the **Global Settings** tab.
- 3. Select Enterprise Settings.
- 4. In the **Snapshot Information Date-Time Format** box, enter **Other**:*customformat* where *customformat* is your custom date and time format. For example, **Other**:**yyyy-MM-dd** only displays the date.

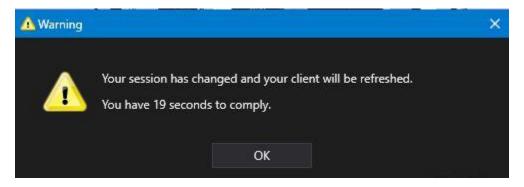
#### Using Local Date/Time

You can use the local date/time of the client machine that captured the snapshot preview. To do this:

- 1. Go to System Configuration.
- 2. Select the **Global Settings** tab.
- 3. Select Enterprise Settings.
- 4. Select the Snapshot Information use Client Local Time checkbox.

## **Reconnected to the Server**

When the network connection is restored, the lost connection to the server will automatically be established using the user credentials entered previously and the client session (if not expired) will be restored if SSO is in use, without the need to login again. A session changed event will be triggered to notify the user for any missed notifications during the outage.



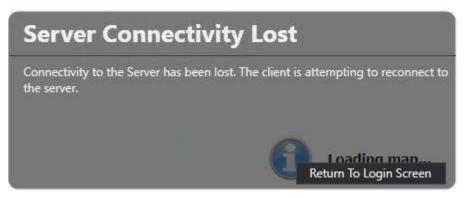


If the client has been disconnected longer the session duration itself, then the user will be taken back to the login screen.

## Disconnected from the Server

A server in a Control Center setup can be connected to several clients deployed at various sites in a federated system. The client may have a video wall which receives the video feed from many devices installed at the site. There are instances when the client loses connection with the server due to network issues but may be required to continue relaying the video on the videowall and keep trying to connect to the server in the background until it is successful.

This feature is made available to facilitate the client to remain alive and allow the user to view the video wall. However, the user is restricted from performing any actions on the client until it gains back connection to the server. An error message window pops up as shown below when the connection is lost, but the video wall will continue to receive the video feed from the devices at the site. This does not obscure the video in the background and the error message window can be moved to the corner of the screen to keep the video display clear.



In this scenario, the user can choose to click on the **Return To Login Screen** button, to go back to the login screen.

## Video Player Playback Mode

The playback speed controller control which is displayed during playback of video allows you to select from the available playback speeds.



When you select a playback speed by moving the control to the left or right of the center point, the desired speed appears under the Playing label.



If you release the mouse, this selection of playback speed will persist until you manually adjust the speed or Pause and Restart the playback using the Play/Pause button.



### Video Timebar Zooming

You can press the Ctrl key while scrolling the mouse wheel from up or down to zoom in and out of the timebar to view a detailed breakdown of the timebar and take a wider view.

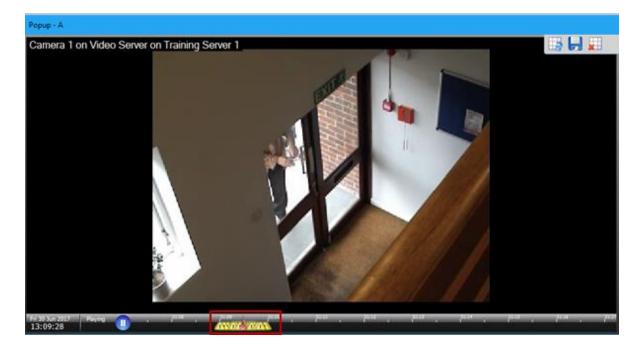
#### Alarm indicators on Video Playback mode

You can track when alarms were raised while in Video playback mode with the help of alarm indicators. In addition, you can handle alarms by right-clicking on the alarm indicator icon.

**Important**: Make sure to configure playback supported cameras.

To configure alarm indicators:

- 1. Create an Alarm Type with an event on Training Server, for example BMS event. For more information, see <u>Defining an Alarm Type</u>.
- 2. Drag and drop a camera on to the display area to show a live camera.
- 3. From the toolbar, click 🖴 to set the live camera in playback mode.
- 4. Generate alarms and view them in the Alarm Stack area.
- 5. View the playback camera on the display area during the time when alarms were raised. The alarm indicators are displayed in the form of icons on the timebar. Shown below are alarm indicators in playback mode.



**Note**: You can only handle alarms from the alarm indicator icon, if the required permission for handling an alarm type is set against the alarm handling group.

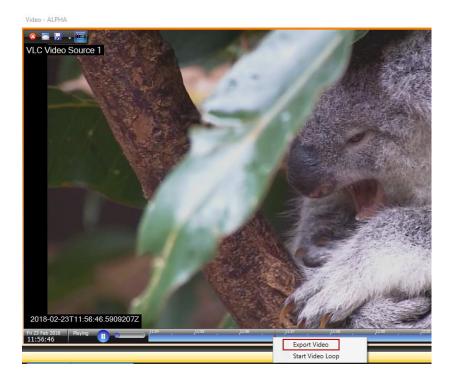


## Video Export Wizard Shortcut

Using the Export Video Shortcut option from the timebar, operators can export video while the video is in playback mode. It is possible to control which users can invoke the Video Export Wizard by configuring the relevant security policies.

To use the Video Export tool from the video tile layout:

- 1. From the **Video** tile layout, click  $\cong$  to set the live camera in playback mode.
- 2. On the timebar, select a specific duration for which you want to export the video by hovering on the timebar and selecting it with the mouse, then right-click and select the **Export Video** option from the context menu that appears. The **Video Export Wizard** appears. For details on creating a new video export, see <u>Creating a new export</u>. Any changes made to the video export gets recorded in the audit log using the existing auditing rules.



## Video Loop Playback

Use the Video Loop Playback functionality to loop a section of the video shown on a tile layout backto-back for a specific duration in playback mode.

You can define the Playback Start Time and Playback End Time in a response plan using the Set Tile Contents shape, such that when the playback video is displayed, and the recording reaches the end of the loop, the video restarts from the Playback Start Time. It will continue to repeat until the camera is switched to live or closed. In addition, you can pause the video at any time during the loop.





To enable the video loop playback function:

- 1. From the video tile, click 🗳 to switch to playback mode.
- On the timebar, select a specific duration for which you want to loop a video by hovering on the timebar and selecting it with the mouse, then right-click and select Start Video Loop. The video will start looping and continue to repeat until the camera is switched to live or closed.

#### **Event Indicators in Video Playback Mode**

The timebar displayed on the Video Player window can be configured to display event information from a sub-system that is associated with Control Center. The event indicators appear on a video camera configured within Control Center that is in playback mode at the time. Using the event indicators, you can track when an event was raised.

**Prerequisite**: When adding cameras, make sure to add playback supported cameras only.

To view the event indicators on the timebar:

- Install a device driver that supports displaying event indicators in playback mode. In this
  example, install the American Dynamics VideoEdge driver or Intellex driver, and then add
  the device to your Control Center solution.
- 2. From System Configuration, make some changes to the newly added device such that an event is generated. For example, edit the existing label of the camera that is configured with the device.
- 3. Drag and drop a camera on to the display area to show a live camera.
- 4. From the **Video Player** toolbar, click to set the live camera in playback mode or directly view the camera in playback mode.



5. View the playback camera on the display area around the time when the event was raised. The event indicators are represented by a small blue dot on the timebar.

Hovering on the blue dot will display additional information about the event. For example, in this example, the following event properties are displayed:

- The date when the subsystem was configured
- The Device identifier
- The label of the subsystem that generated the event
- The date and time when the event was created

**Note**: The event information that appears on the timebar depends on the driver installed and event selected.



To configure the timebar properties:

- 1. Select the device that you installed in the previous section.
- 2. In the **Properties** pane, click **Timebar** events. A new popup window with the available event types appear.
- 3. Select the required event types to be displayed on the timebar when you hover on the event indicators.

### Limiting the Number of Concurrent Video Feeds for Specific Users

It is possible to limit the number of concurrent video feeds that users can view at any time. Using the Maximum Concurrent Video Feeds property for a user object or group object, you can restrict the user object or a group object to view a specific number of camera feeds, for example, two camera feeds. When the same user is logged on to the multiple clients, they will be able to view only two camera feeds on each client. When this property is set to o, you can display unlimited video feeds.

Note that if a user is a member of multiple groups, then the highest values will be considered. In addition, if you try displaying additional feeds than the maximum limit specified for the user or group, then instead of displaying the video, the following warning message will appear:

# everbridge®

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**Note**: You must restart the Windows Client for the changes to apply.



## **Servers and Services**

An example using the above terminology would be where multiple machines are used to run the Rules Engine service. The Rules Engine service in this example is running on machines IPSC-RE-SVR-1 and IPSC-RE-SVR-2. These objects are automatically created in the Computers folder.

F	Rules Engine Server
÷	IPSC-RE-SVR-1
_	

🗄 🍓 IPSC-RE-SVR-2

A service object is created automatically in the Services folder. There should only ever be one instance of a service to which all server objects point to.

Rules	Engine	Service	

🗄 🎆 Rules Engine Service 👘 Rules Engine Service

Each server object is configured to target the corresponding service object. In the following example, the Rules Engine Service property in the Rules Engine Server objects are set to point at the object called Rules Engine Service.

Pr	operties - (IPSC-RE-S	SVR-2) 🔻
Ŀ	]2↓ 🖻	
۵	General Settings	
	Created	9/27/2013 2:55 PM
	Description	Server with the IP hostname of Ci
	Enabled	True
	Enviroment	Production
	Fully Qualified Name	CarlG-Laptop.cnluk.com
	Label	IPSC-RE-SVR-2
	Owner	System
	Rules Engine Service	Rules Engine Service
	Schedule	No schedule set
	Tag	

Certain service objects also include event viewers which can be used to monitor the event passing through the system. The different event viewers are described in the following sections.

If a Control Center service is not in an operational state, the System Configuration interface provides any additional information available about the cause of the issue.

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## **Connection Manager Event Viewer**

The Connection Manager Device Event Viewer lists all events raised by the different devices under the control of a connection manager. The event viewer will list the events as they are received and subsequently processed by Control Center.

To open the Event Viewer, double-click a Connection Manager or right-click and select the Connection Manager Device Event Viewer.

The event viewer appears and will automatically start listing the events as they are received.

	Event Raised	<ul> <li>Device Type</li> </ul>	Device	Event
)	CredentialSwiped (110		00000	
•	DoorStateChanged (18	2 Items)		
)	RoomBusy (16 Items)			
p	7/22/2013 9:18:23 PM	Training Server	Training Server 1	RoomBusy
p	7/22/2013 9:19:13 PM	Training Server	Training Server 1	RoomBusy
¢	7/22/2013 9:19:53 PM	Training Server	Training Server 1	RoomBusy
Ŷ	7/22/2013 9:20:43 PM	Training Server	Training Server 1	RoomBusy
P	7/22/2013 9:22:23 PM	Training Server	Training Server 1	RoomBusy
¢	7/22/2013 9:25:13 PM	Training Server	Training Server 1	RoomBusy
¢	7/22/2013 9:25:43 PM	Training Server	Training Server 1	RoomBusy
P	7/22/2013 9:27:03 PM	Training Server	Training Server 1	RoomBusy
P	7/22/2013 9:27:43 PM	Training Server	Training Server 1	RoomBusy
Ŷ	7/22/2013 9:28:33 PM	Training Server	Training Server 1	RoomBusy
Ŷ	7/22/2013 9:29:13 PM	Training Server	Training Server 1	RoomBusy
Ŷ	7/22/2013 9:29:33 PM	Training Server	Training Server 1	RoomBusy
Ţ	7/22/2013 9:31:12 PM	Training Server	Training Server 1	RoomBusy
Ţ	7/22/2013 9:33:22 PM	Training Server	Training Server 1	RoomBusy
Ţ	7/22/2013 9:34:42 PM	Training Server	Training Server 1	RoomBusy
	7/22/2013 9:35:52 PM	Training Server	Training Server 1	RoomBusy

A toolbar associated with the event viewer provides the following options:

Stop/Start	Stops and starts the logging of events. Events will not be cleared from the list when stopping or starting the logger.
Clear	Clears all events from the event viewer.
Group By	Provides options to group events by: None Events Device Type Device
Filters	Show All Filters – Displays the Event Filters dialog. See <u>Connection</u> <u>Manager Event Filtering</u> for more information.



Clear All Filters – Clears all currently applied filters. View Filtered Events – Displays the filtered events.
Expands or collapses all groups when the results are grouped by one of the options above. The name of the button will change when clicked.

The Event Viewer also includes a total number of events logged on the status bar. A total will be shown for each group of events when events are grouped together.

### **Connection Manager Event Properties**

The properties for each event can be viewed by simply selecting an event. The corresponding properties for the event will then be shown in the property grid.

Event Properties	
Date	10/7/2013 4:51 PM
DeviceIdentifier	81ba02f2-bd06-41d9-adc5-c40bc8c
Door	4
DoorLabel	Door 4
Email	andy.aracri@cnlsoftware.com
FirstName	Andy
Identifier	4
LastName	Aracri
Picture	http://+:56789/TrainingDriver/4.jpg
Reader	11
ReaderLabel	Reader 11
Result	Granted
ResultValue	1
Telephone	01483 4800004
⊿ Misc	
EventId	4a5157c2-702f-e311-be1b-005056c
SenderEventId	1c9e9d26-4ff0-43ae-ad78-fa4921ad
Senderld	276710be-2ae3-4329-82ed-6867a1f

### **Connection Manager Event Filtering**

Filters can be applied to the events being received by the connection manager. This can be used to drastically reduce the load on the services when lots of unwanted events are being received and processed.

To filter events for a Connection Manager:

- 1. From **System Configuration** window, click **Services**. The **Overview Services** dialog opens.
- 2. Double-click the **Connection Manager** for which you want to filter events. The **Device Events** for the selected **Connection Manager** are displayed.
- 3. Right-click anywhere in the event view and select **Filter**. The **Event Filter** dialog appears.

The **Event Filter** dialog shows the different options available for filtering, which includes filtering by device, device type or event name. By default, all filters include the Connection Manager, therefore the Connection Manager field cannot be cleared.



Event Filter		×
Connection Manager	Default	Reset Clear
Device	Training Server 1	Reset Clear
Device Type	Training Server	Reset Clear
Event Name	RoomBusy	Reset Clear
	OK	Cancel

Use the **Reset** and **Clear** buttons to reset and clear events respectively. The following figure shows a filter on events based on the event name, Room Busy. Click **OK** to apply the filter.

Note: Ensure to restart the Connection Manager service for the filter to take effect.

Event Filter		×
Connection Manager	Default	Reset Clear
Device		Reset Clear
Device Type		Reset Clear
Event Name	RoomBusy	Reset Clear
	OK	Cancel

All new events which are received by the Connection Manager, but subject to the applied filters, will not be forwarded onto other Control Center services for further processing. This includes logging the event in the pacific database and evaluating the event against triggers or alarm types. The event viewer will show an icon to indicate which events are filtered or not.



A list of all the currently applied filters is also available via the **Filters** toolbar item. Selecting the **Show All Filters** option will display the **Event Filters** dialog. You can delete any existing filter by



clicking the delete button. Note that the Connection Manager service must be restarted following any changes to the filters.

Ever	nt Filters	;						×
								<b>(</b>
		Connection Manager	Device Type	Device	Event			
		Default			CredentialSwiped			
		Default	Training Server	Training Server 1	RoomBusy	×		
						13		
L							Delete	ОК

## **Rules Engine Event Viewer**

The Rules Engine Event Viewer lists all events processed by the selected Rules Engine server.

**Note**: The Rules Engine Event Viewer is available on a pre-server basis. This will report all events processed at a machine service level rather than at the overarching Control Center service level.

To open the event viewer either double-click a rules engine server or right-click and select **Rules Engine Event Viewer**. The event viewer will be shown and will automatically start listing the events as they are processed.

## **Connection Manager Failover**

Control Center supports the use of multiple Connection Manager (CM) instances to implement failover. Therefore, if one instance of the CM becomes unavailable another CM can resume the operations.



Connection Manager A	
Control Center Server	SQL Database

Connection Manager B

To configure two Connection Managers in failover mode, first install the Connection Manager on two separate servers.

**Note**: It is recommended to give both the Connection Managers the same name.

In the CM installer, use the **Installation Configuration** tab to set the **Event Service Hostname** and **Core Service Hostname** properties to point to the relevant services. The names shall be entered using IP or machine names, do not use localhost.

Also, set the **Database Instance Name** to point to the Control Center configuration database. This is the same for all Connection Managers.

## # everbridge\*

Connection Manager Instance Manager							
Prerequisites Installation	Configuration	Connection Managers					
Connection Manager Service Credentials							
User name	.\LocalSystem						
Password							
Service Addresses							
Event Service Hostname	cnldemo2						
Core Service Hostname cnldemo2			Test				
Database Configuration	Database Configuration						
Database Server Instance	cnldemo2		Test				
Authentication Mode	SqlAuth		·				
SQL User name	sa						
SQL Password	•••••						

Once the Connection Managers are installed and started, the following new objects will appear in System Configuration:

- Two CM servers in the Computers folder
- One CM Service in the Services Folder

Overview - Comput	Ma Children and an			
ntire IPSecurityCenter Enterprize My Organisation			Search in Compu	
Computers Label	<ul> <li>Descripti</li> </ul>	lon	Туре 🔦	Last Modified
Devices Alarm Types Server				
Media  My Locations	om Server w	ith the IP hostname of CNLDEMO2.cnluk.com	Alarm Types Server	4/23/2015 10:14:36 AM
Sandbox Audit Server				
Services  Services	om Server w	ith the IP hostname of CNLDEMO2.cnluk.com	Audit Server	4/23/2015 10:14:37 AM
Unknown Location Connection Manager	Server			
User Objects		ion Manager Instance 'Access Control' runnin	Connection Manager Server	4/24/2015 4:13:07 PM
🗉 🙀 Web Objects 📧 🐘 JonLonkA.com (Ac	ess Control] Connecti	ion Manager instance 'Access Control' runnin	Connection Manager Server	4/24/2015 4:14:11 PM
Geographic Informat	on Server			
① Southermost Contraction Contractico C	am Server w	ith the IP hostname of CNLDEMO2.cnluk.com	Geographic Information Se	4/23/2015 10:14:36 AM
Monitoring Server				
II SUDEMOZ.enkik.e	am Server w	ath the IP hostname of CNLDEMO2.cnluk.com	Monitoring Server	4/23/2015 10:14:37 AM
Notification Server				
III 🐻 CNLDEP402.cnl.k.c	am Server w	eth the IP hostname of CNLDEMO2.cnluk.com	Notification Server	4/20/2015 10:14:05 AM
Response Plan				
💷 🍖 Response Plan for	rigger for Joystick Button Down on CNLDEMO2.cnluk.com		Response Plan	4/24/2015 2:55:42 PM
Rules Engine Server				
III III, CNLDEMO2.cnkk.c	am Server w	ith the IP hostname of CNLDEMC2.cnluk.com	Rules Engine Server	4/23/2015 10:14:40 AF
Security Server				
III I CALDEMO2.onk.k.c	Server w	ith the IP hostname of CNLDEMO2.cnluk.com	Security Server	4/23/2015 10:14:37 AM
Server				
II R ChiDEMO2.onkA.c	Server C	omputer with the IP hostname of CNLDEMO	Second	4/23/2015 10:14:22 AF
Streaming Server		Compared when the proceeding of Compared on	201101	4/20/2010 10/11/22 M
IB CNLDEMO2.onluk.c	Server w	ith the IP hostname of CNLDEMO2.cnluk.com	screaming server	4/23/2015 10:39:33 AM
Trigger			Trigger	4/24/2015 2:55:42 PM

• Select the Connection Managers in the Computers folder. Observe that the property Connection Manager Service point to the same service for both CM servers. This is because the service now uses both Connection Manager servers but only one at a time.

**Note**: Only one of the Connection Manager servers can be active at any one time. This is illustrated by the Online icon overlay. The remaining CM servers are pending. If a CM server is not running or if the Control Center server cannot contact the CM, the object is marked as failed in System Configuration and the reason for failure is shown in the Extra Information column.

Note: Use the Server State Changed event to monitor the state of the servers (if required).

Additional functionality is also available in the Administrator Interface. This can be used to monitor the status of Connection Managers and to restart Connection Managers.



To monitor status of Connection Managers through the Administrator Interface:

- 1. Open the **Admin Interface**.
- 2. Select **Connection Managers** > **Status**. The status of the Connection Managers is shown.

CONTROL Administrator	r Interface \ Users	×
Click the category you require	Image: Servers       Image: Servers         Image: Servers       Image: Servers	
	Health Check Windows Clients Connection Managers Remote Servers Summ	ary

To restart the Connection Manager through the Administrator Interface:

- 1. Open the **Admin Interface**.
- 2. Select Connection Managers.
- 3. Double-click on the Connection Manager that needs to be restarted.

### **Connection Manager Priority**

An installation can consist of physical servers with different specifications where one server performs better than others. It is then desirable to give the highest performing CM server a higher priority. This will have the effect that Control Center makes this the active CM when available.

To change the priority of the Connection Manager, set the Priority property of the CM Server object. 1 is the highest priority.

#### Calculated Device States

The online state of all devices that are connected to the Connection Manager is only refreshed when the Connection Manager is online. If the Connection manager is offline, the devices will be assumed to be offline and unavailable.



## **Threat Level**



In Control Center, threat levels are supported by alarm types and can be visually represented using a GUI control. The threat level is simply a numerical value which runs from 1 to 5. The threat level GUI control, as shown in the figure, shows how titles and descriptions can be associated with each level to provide more context visually.

A typical example is where the threat level is set based on the types of alarms in the system which could then in turn determine how other alarms are created and handled. The following sections detail how to determine the threat level, control system behavior based on the threat level and how to show the threat level control.

The threat level can also be used externally to Control Center using system events and response plan shapes. For example, the access mode of an access control system could be changed from Card Only to Card and Pin when the threat level reaches a certain level.

## Setting the Threat Level

The threat level in Control Center is simply a whole number between 1 and 5, with 1 being the default and 5 being the maximum. The mechanism to set the threat level uses a stack model whereby, threats are entered in the stack by alarm types (when an alarm is created) or by a response plan shape. The threat level in the system will then be based on the highest threat in the stack. The threat level is then updated accordingly as threats are removed from the stack (either when an alarm is resolved, or a manual threat is removed using a response plan).



Each threat registered on the stack must have a corresponding key. In the case of alarms then each threat is keyed by the alarm ID which is managed automatically. In the case of manual threats, then a key must be specified when adding and removing threats.

## Using Alarm Types in Threat Levels

The system threat level can be determined based on unresolved alarms in the system. The Alarm Types wizard includes an option on the Collation and Alarm Actions page to set the threat level when an alarm of that type is created.

**Note**: The threat specified will determine the minimum threat applied. If an alarm exists which specifies a higher threat level, then the higher value will be used.

🌀 🧰 Alarm Types Wizard
Collation & Alarm Actions
Collation:
Collate by Location
Collate by Alarm Point
Collate by Alarm Type
Collate by Track ID
Collate by Event Property:
Alarm Actions:
Alarm Created: 🍓 None Set 📖
Alarm Handled: 🌯 None Set 📖
Alarm Modified: 🌄 None Set 📃 📖
Alarm Resolved: 🔩 None Set 📖
Alert State: Test
Threat Level: Raise threat level to 3
Next Cancel

The options available for the threat level are:

- No change
- Raise threat level to 2
- Raise threat level to 3
- Raise threat level to 4
- Raise threat level to 5

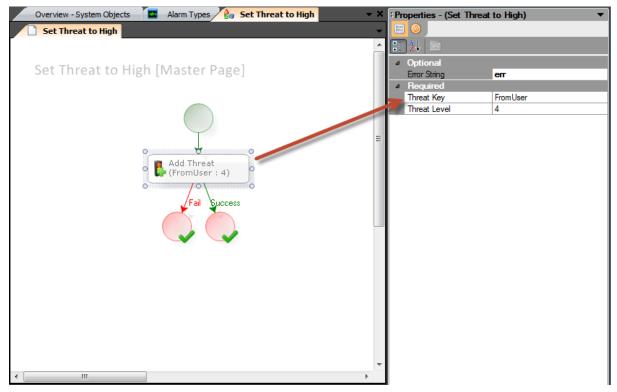
There is no option to raise to level 1 as this is the minimum and default level.



## **Manually Setting Threat Levels**

In addition to alarms controlling the threat level, manual entries can also be created using response plan shapes. This provides additional control over the threat level from other parts of the solution. For example, a button can be provided on the main menu to register a manual threat. Note that the threat specified will determine the minimum threat level. If alarms or other manual threats exist with a higher threat level, then no change will occur.

In the screenshot below, a response plan has been created to add a threat level of 4. Note that the threat key of FromUser has been specified which must be equally specified when removing the threat.



## Threat Level Example

A sample solution has been configured with the following alarm types:

- Door Held Open Threat level setting equals No change
- Fire Alarm Threat level setting equals Raise threat level to 4
- Perimeter Breach Threat level setting equals Raise threat level to 3

The solution also has the following buttons on the main menu

- Raise Threat to High Runs a response plan using the Add Threat shape passing in the values of
  - Threat Key = MainMenu
  - Threat Level = 4



• Revert Threat Level – Runs a response plan using the Remove Threat shape passing in the values of Threat Key = MainMenu

The following table lists example activities using the alarm types and menu buttons detailed above. The left column shows the activity, the center column represents all threats registered in the solution, and the last column shows the current threat level which is the highest of all threats.

Activity	Threat Stack (ID, Threat)	Threat Level
Start	[empty]	1
Perimeter Breach alarm created (ID = 1)	1, 3	3
Door Held Open alarm created (ID = 2)	1, 3	3
Perimeter Breach alarm created (ID = 3)	1, 3 3, 3	3
Fire Alarm created (ID = 4)	1, 3 3, 3 4, 4	4
Alarm 3 resolved	1, 3 4, 4	4
Main menu button Raise Threat to High clicked	1, 3 4, 4 MainMenu, 4	4
Alarm 4 resolved	1, 3 MainMenu, 4	4
Alarm 1 resolved	MainMenu, 4	4
Main menu button Revert Threat Level clicked	[empty]	1
Alarm 2 resolved	[empty]	1
Perimeter Breach alarm created (ID = 5)	5, 3	3
Alarm 5 resolved	[empty]	1



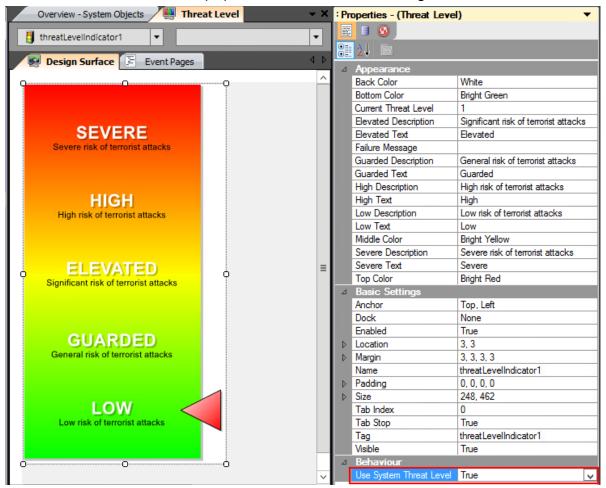
## Using the Threat Level

The threat can be used in various parts of a solution as it changes. This includes:

- A GUI control to visually show the threat
- Options in alarm types to determine the creation of alarms
- An event on the alarm types service
- Response plan shapes

### Threat Levels With a GUI

The quickest and easiest way to visualize the threat level is using the Threat Level Indicator GUI control. The threat level indicator includes a property called Use System Threat Level which when set to True will automatically update to show the current threat level. Simply create a GUI with the Threat Level Indicator control, set Use System Treat Level to True, save the GUI and then display. The GUI will then automatically update as the threat level changes.



## Threat Levels With Alarm Types

The evaluation of an alarm type can also include a check of the current threat level. The Evaluation page of the Alarm Types wizard includes an option to filter alarm creation based on a specified condition. These include:



- Any-The alarm will be created at any threat level.
- Equals- The current threat level must equal the specified value (1 5) for the alarm to be created.
  - **Higher than** The current threat level must be over the specified value to create the alarm.
  - Less than The current threat level must be below the specified value to create the alarm.

In the figure below, an alarm type has been configured to only create alarms if the threat level is higher than 3 (only when the current threat level is 4 or 5).

Physical State:	Open	
Threat Level:	Higher than	▼ 3 ▼

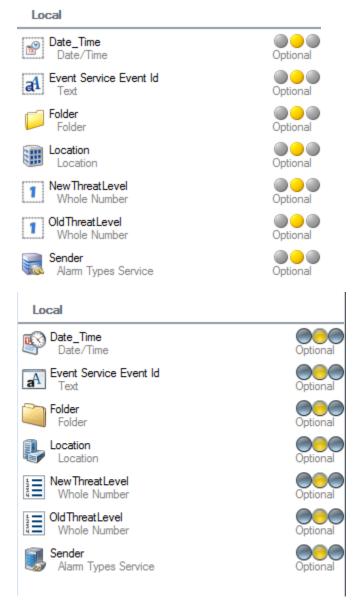
### Threat Level Changed Event

When using the threat level outside of Control Center, an event on the Alarm Types Service can be used to detect changes to the threat level and perform actions on external systems as in the example below.

1	Alarm Types Service	
-	Alarm Types Service Ø Events	Alarm Types Service
	Porced Park	Raised when an alarm is forcibly parked by a correlat
	Forced Resolve	Raised when an alarm is forcibly resolved by a correl
	🅁 Service State Changed	Raised when the online state of the service changes
	📕 Threat Level Changed	The Threat Level of the system has changed.
	Shortcuts	Shortcuts targeted against this object

The event will then provide values based on the old and new threat level which can be configured to populate response plan variables.





## Get Threat Level Shape

The response plan shapes palette includes a shape to get the current threat level. This can be used to populate a whole number variable to get the current threat level. This can be useful when used in conjunction with the Threat Level Changed event. For example, this shape can be used to get the initial value when starting up a solution and the event can be used for ongoing changes.





## **Manual Threats**

A GUI control called Threat Level Grid is available to view all manual threats in the system. This shows all manual threats in the system which have been added using the Add Threat shape.

**Note**: The grid will not show any threats for alarms.

The following screenshot shows how the grid has been used within a GUI to show manual threats and provide the user with the option to remove a threat.

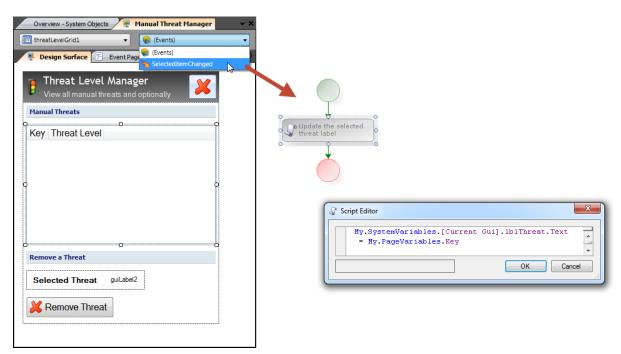
Video Wall	
Image: Threat Level Manager           View all manual threats and optionally remove a threat	
Manual Threats	
Key Threat Level FromUser 4	
Remove a Threat	
Selected Threat FromUser	
Kemove Threat	

When the user selects an entry in the grid, the GUI will update the selected threat label with the selected key. The user can then click the Remove Threat button to remove the threat.

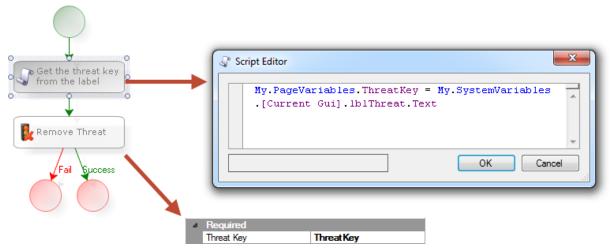
#### Manual Threats and GUI Logic

The logic for the GUI includes an event page on the grid SelectedItemChanged event which populates the label.

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The button clicked event is also configured to get the selected threat key from the GUI label and then uses the Remove Threat shape to remove the threat.



#### Modify Alarm Shape

The modify alarm shape allows for the threat level of an existing alarm to be modified. Simply use the shape for an alarm specifying a threat level from 1 to 5. If the alarm previously specified a threat, then it will be updated to reflect the new value. If no threat previously existed for the alarm, then a new threat will be registered on the threat stack.

**Note**: Specifying a new threat level for an alarm will only update that instance of the alarm. Existing alarms for the same type and any new alarms for the corresponding type will not be affected.



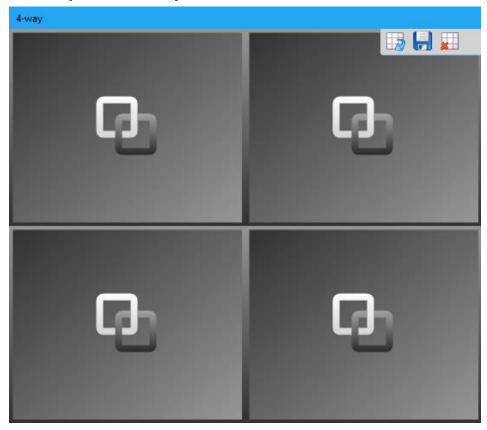
## **Tile Layouts**

Control Center provides a Tile Layout feature, where a camera view for a customized layout can be saved in the system and expose this to the end-user so that operators can create, view, and modify their own layouts.

Tile Layouts can be either saved as available for all users or only for the creator of the layout. This introduces the concept of user folders where content can be saved in the system within hidden folders for each user. Functionality added in the future can utilize the same model to further extend content structuring.

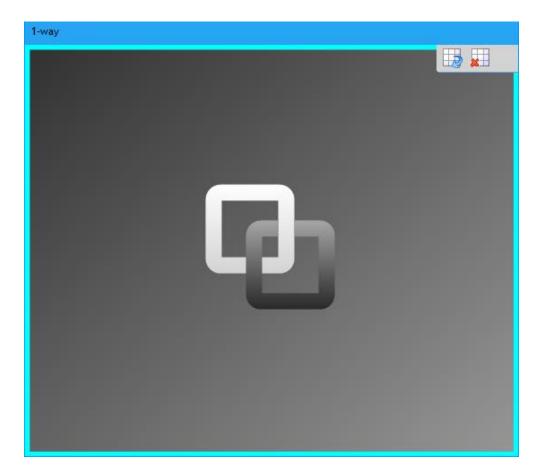
A tile is a user interface element in Control Center for displaying content to a user. The content can be output from a device, a commissioned GUI or a Sequence. A Tile Layout is a grid of tiles that can be laid out in multiple ways. The Tile Layouts feature allows the user to create and maintain a unique set of Tile Layouts.

## **Example Tile Layouts**



## CONTROL CENTER 5.28 REFERENCE GUIDE







9-way				
Not Connected	1	Not Connected	2	Not Connected
Not Connected	4	Not Connected	5	Not Connected 6
Not Connected	7	Not Connected	8	Not Connected 9

## Allow Users to Create Tile Layouts

Defining which system Tile Layouts are available in the Tile Layouts tab determines what Tile Layouts are available to users.

First configure the Tile Layout definitions to enable users to create their own Tile Layouts using the Tile Layout Definitions drop-down.

The list of Tile Layout definitions appears displaying all the definitions configured in Control Center. Definitions selected here are made available to the end user to create their own Tile Layouts.



۵	Other						
	Base Location		CNL				
	Tabs to show		3 Tabs				
	Tile Layou	It Definitions	(Collection)				
	Types to	Mark All	UnMark All				
۵	Text Ap	V 1-way					
	Font	4-way					
		9-way					
		16-way					
		📃 16-way 2-	hotspot				
		16-way 1-hotspot					
		📃 16-way 1-	centered hotspot				
		16-way 3-hotspot					
		9-way 1-stretched hotspot					
		📃 9-way 1-h	· ·				
Tile	e Layout	25-way 1-					
Allo	wed User	36-way 1-					
		64-way 1-					
		✓ 6-way (w) ■ 8-way (w)					
istrator 🔜		12-way (w)					
			hotspot (w)				
		12-way 2-hotspot (w)					
			stretched hotspot (w)				
		20-way (w					
		20-way 1-	hotspot (w)				
		🔲 20-way 1-	centered hotspot (w)				

## **Display Tiles on Video Wall**

The toolbar in the System Explorer Tile Layouts tab includes a button to display the selected tile layout to another machine. To use this functionality, configure the **Display TileLayout Button Pressed** event on the System Explorer GUI to show the selected tile layout to the target machine.

 Edit the System Explorer GUI and select the Display TileLayout Button Pressed event on the System Explorer Control. This will create a new event page with an event specific variable for the selected tile Layout.

🚺 guiSystemExplorer1	💌 📚 (Events) 💌						
Nesign Surface 🕞 Response Pl	an for GUI 'Systi 📚 (Events)						
	Location Selected						
Locations	🐚 Device Selected						
	🔪 Contact Selected						
CNL	Magnet Selected						
View contacts for this Location	🦮 Tile Layout Selected						
Locations	My Sequence Selected						
Type Search Text Here	Yang Display TileLayout Button Pressed						

- 2. Add any required logic into the event page to display the tile layout.
- 3. Make any changes and click **Save**. Changes are automatically updated in System Explorer Control.

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## Configure Layouts to be Saved by a User

Using the **Allow Save** property in tile layouts, you can save global or personal tile layouts, if permitted.

In the **System Configuration Overview** tab > **System Explorer**, select a tile layout.

۵	General Settings					
	Allow Save	False 💌				
	AllowMoveTiles	True				
	Created	27/10/2011 09:58				
	Description	Provides a tile based layout fram				
	Enabled	True				
	A 1 1					

In System Explorer, the default setting for existing and new layouts is set to **False**. When the layout is set to **False**, the **Save** icon does not appear in the tile layout as it is display-only and cannot be saved.

If this parameter is set to **True**, the **Save** icon is available to users when the tile layout is displayed.

By default, in layouts created by end users, this property is set to **True**.

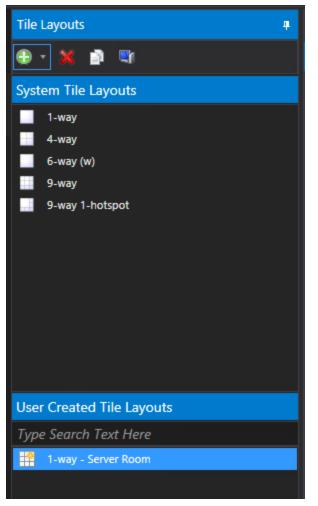
## **Creating a Tile Layout**

To create a new tile layout:

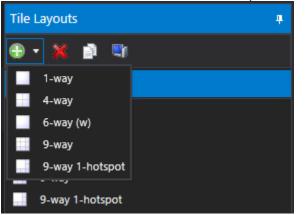
1. In **System Explorer > Tile Layouts** tab, click the green **Plus** button.

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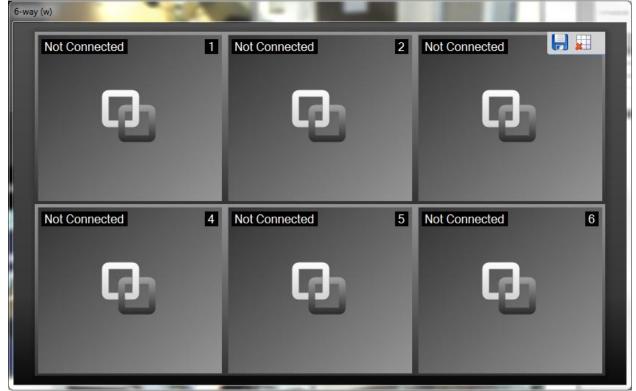


- 2. The available layouts drop-down appears. Clicking any one of these opens a new window displaying the tile layout.
- 3. The available layout definitions are determined by the selection made in System Explorer, see the Allow users to create Tile Layouts section above.





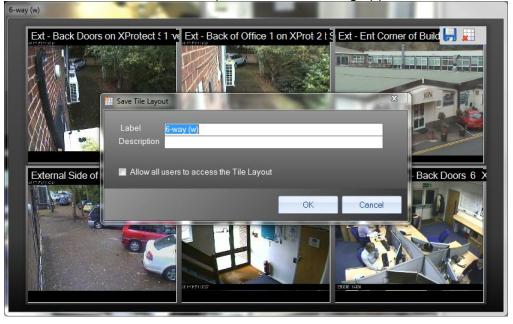
4. Click 6-way (w). An empty 6-way Tile Layout appears.



5. Now drag on the cameras, sequences and GUIs to display into the tiles.

Note: To remove content, select it and click Close.

6. Click the Save icon to save the layout. The Save dialog appears.





- 7. Enter the **Label** and **Description** to identify the layout and click **OK**. A Tile Layout is only accessible to the user who saved it, by default. The Allow all users to access the Tile Layout checkbox allows the layout to be saved for global use.
- 8. To save a Tile Layout for global use, provide a Location to save the Tile Layout. This makes the layout available to everyone.

**Note**: You can also create a layout by dragging out one of the available definitions onto an appropriate display area.

### Display a Tile Layout

When the Tile Layout is saved, it appears in the list on the Tile Layouts tab in System Explorer. From System Explorer, drag the layout onto an appropriate Display Area to show it. If available, select the layout and click Display to video wallon the toolbar.



#### Change a Tile Layout

To do this:

- 1. To edit a layout, select it from the **Tile Layout** tab and display it in the Display Area.
- 2. Drag content into the layout and delete it.
- 3. Click **Save** and then click **OK**.

Note: The Save icon only appears if the Allow Save option is set to True.

#### Delete a Tile Layout

Select a layout in the **Tile Layout** tab, and then press the **Delete** keyboard key or click the **Delete** button in the toolbar.

## Copy and Rename a Tile Layout

To do this:

- Select a layout in the Tile Layout tab and click the Duplicate button. A copy of the tile layout is saved in the same location as the original layout and appears in User Created Tile Layouts. The copy uses the naming convention TileLayoutName – copy.
- 2. Open TileLayoutName copy and set it up.
- 3. Click **Save**. The **Save** dialog appears.
- 4. Type the **TileLayoutName copy** and rename the tile layout. Click **OK**. The tile layout appears in **User Created Tile Layout**s saved under its new name.

## **Configure Tile Layout Border Color**

Camera Devices include a Border Color property that determines the border color when the camera is displayed on a tile layout.

By default, this property is set to Transparent for backwards compatibility, however you can change it during commissioning of the system.

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Overview - Ground Floor							Properties - (Ground Roor)		
Search in Ground Floor						1 <mark>21</mark> 🔤			
Label	<ul> <li>Description</li> </ul>	Type	<ul> <li>Last Modified</li> </ul>	Extra Information	. d	General Second			
						Border Color	Transparent		
Intellex Camera						Created	11/4/2016 2:00 PM		
						Description	Camera for the Intellex device.		
🗉 🜃 Intellex Camera 01 on Intellex 1	Camera for the Intellex device.	Intellex Camera	11/4/2016 2:00:39 PM			Environment	Production		
🗄 🌃 Intellex Camera 02 on Intellex 1	Camera for the Intellex device.	Intellex Camera	11/4/2016 2:00:39 PM			loon	CNL.IPSecurityCenter.Driver.Ame		
Intellex Camera 03 on Intellex 1	Camera for the Intellex device.	Intellex Camera	11/4/2016 2:00:39 PM			Owner	System		

To display the border color, configure the Allow Tile Menu to True for the chosen Display Area.



## Camera Highlighting on the UI

Operators can view what camera they have selected on a map or System Explorer when a camera is selected on a tile. This functionality is particularly useful when a location has several cameras configured with similar labels. The color in which the camera selection is highlighted can be customized in Global Settings. By default, the camera is highlighted in orange.

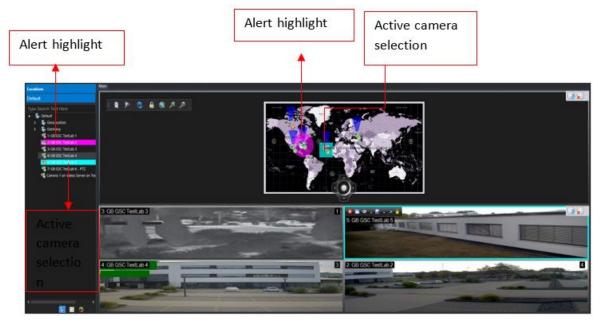
As this functionality requires multiple camera devices, you must configure a driver and add at least a few camera devices in Control Center.

To view the highlighting of camera selection:

- 1. Configure a tile layout, for example a 4-way tile layout.
- 2. Drag and drop camera devices on all the four tiles.
- 3. Plot devices on the map (either Schematic or Geographic map).
- 4. Select between the tiles and notice how the devices are highlighted based on your selection in the following areas:
  - Map (both 2D and 3D) On a 2D map, the camera selection appears as a square filled background behind the camera and a static halo around the camera on 3D maps.
  - **System Explorer** Camera background is highlighted on selection.
  - **Tile Layout** The border of the tile layout is highlighted around the video.

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#### CONTROL CENTER 5.28 REFERENCE GUIDE



5. If there is an alert in the system and the camera alert highlight is active on a camera tile, then the tile will alternate between the active highlight and the alert highlight. The same condition applies on the map area as well.

**Note**: Only a single camera is shown highlighted as the active selection at any one time.

- 6. To customize the active selection color in which the camera selection appears:
  - a. Click **Global Settings** in the toolbar. The **Global Settings** dialog appears.
  - b. Click Enterprise Settings. The Enterprise Settings Configuration dialog appears.



arms wironment Variables	Enterprise Settings Configuration		
terprise Settings	Configure Enterprise Settings		
ror Reporting inguages	Enterprise Settings: Recal Enterprise Settings		
curity	Name	Value	7
L Reporting	Snapshot Information use client Local Time		
yling	Video Snapshot Path	%userprofile%\Documents\IPSecurityCenter Sna	spshots
deo Wall	<ul> <li>Email Sending Preferences</li> </ul>		
	Video Export Attachment Limit (MB)		1
	Username		
	Friendly Name	Administrator	
	Email Address	something@myorganisation.co.uk	
	Password		
	<ul> <li>Email Server Settings</li> </ul>		
	Authenticate		
	Server Address		
	SMTP Port		0
	Use SSL		
	^ General		
	Support URL	http://support.cnlsoftware.com	
	^ Object		
	Object Selection Color	#FFFFA500	
	^ RateLimit		
	Rate Limit Default		60

- c. Click **Object Selection Color** in the drop-down list and select the required color from the color picker. By default, the color is set to orange.
- d. Click **Apply** to save the changes.

**Note**: You can publish the camera highlight color changes to all federated sites. In addition, if a tile is configured to display a PTZ-enabled camera, you can disable the PTZ commands with the selection highlighted.

## **Camera Highlighting in Sequences**

You can view what camera is being displayed when the sequence is playing on a tile.

As a sequence is required for the camera to be highlighted when a sequence is being played, you must first create a sequence.

To view the camera when a sequence is being played out:

- 1. Configure a tile layout, for example a 1-way tile layout and drag and drop a sequence such that the sequence plays out the videos on the tile.
- 2. Click the tile that has the sequence displayed. As the sequence plays through, the tile is highlighted and the cameras in the sequence are highlighted one by one in the Explorer tree and on the map. For example, if a sequence tile contains camera 1, 2, 3, 4, then they are highlighted one after the other on the System Explorer and the map as the sequence plays through.



## Auto-Enable PTZ Mode

You can restrict users from enabling PTZ mode on a tile when a PTZ-enabled camera is being displayed on it. This is so that the user doesn't move the camera by mistake when clicking on the tile. The PTZ Active Behavior option in the Global Settings > Enterprise Settings tab provides the flexibility to switch the auto-enable mode setting on and off. In addition, you can publish the PTZ active behavior to all federated sites.

When the PTZ Active Behavior mode is active:

PTZ Active Behaviour	1	Camera
----------------------	---	--------

- Selecting on a camera tile within the video display area will send PTZ commands if the user has the required privileges.
- Selecting the tile will make the camera the active system object if it is not already active.

When the PTZ Active Behavior mode is not active:

PTZ Active Behaviour		Camera
----------------------	--	--------

- Selecting a PTZ-enabled camera will not send PTZ commands.
- To send PTZ commands, you must click the PTZEnable button on the menu of the tile where the PTZ camera is being displayed. This will switch on PTZ commands for that camera. Note: You must have the required privilege to send PTZ commands to be able to see the PTZEnable button.
- If Enable PTZ is switched on:
  - You have the option to click Enable PTZ again to disable PTZ commands on the camera using PTZ commands on the tile menu.
  - Selecting the tile will make the camera the active system object if it is not already active.
  - If you Enable PTZ and then select another camera before switching back to the original camera then the Enable PTZ button will revert to being switched off, which will result in PTZ defaulting to being disabled for that camera.



## Video Export

Video from disparate sources and systems may be required for investigative purposes. In the past, pinpointing and gathering this footage was a difficult and time-consuming task. At best, footage could be requested by email and, at worst, involved on-site visits to find relevant footage. In Control Center, this process is automated by collecting video from multiple systems connected to Control Center – saving time, energy and associated cost.

Video export can be initiated at the end of an alarm resolution process, the main menu or any customized user interface.

The benefits of the Control Center video export feature allow users to:

- Pinpoint the exact cameras from which to export footage, irrespective of the system
- Specify the date and timeframe of the incident to avoid viewing irrelevant footage
- Schedule when to perform the data export to avoid excessive load on production servers
- Prioritize video export so that more important jobs are completed prior to less urgent cases
- If forensic review of video clips is required, you can email your video clips to the different authorities involved.

**Note**: You can only specify one email address in the Video Export Wizard. If you need to send the email to more than one authority, you can forward the email to the other authorities once your email has been sent.

**Note**: Exported video material that is to be used for criminal evidence must include proof that the video has not been edited since it was recorded. This is a feature of each integrated video management system and not part of the functionality currently offered by the video export service.

To install Control Center Video Export Service, see the Video Export Service Installation Guide. To export the video footage correctly, it is important to follow the instructions carefully to ensure that the relevant software and drivers are available on each server.

## **Sending Emails From Control Center**

By configuring your Email Server settings in Global Settings, you can send outgoing emails with attachments from Control Center.

To do this:

- 1. Go to System Configuration.
- 2. From the tool bar, select **Global Settings**. The **Global Settings** dialog displays.
- 3. Select Enterprise Settings.
- 4. Enter your Email Sending Preferences as follows:
  - **Username**. The username of the Control Center Email account that you want to use to send emails.
  - **Password**. The password of the Control Center Email account.
  - Friendly Name. The display name of the Control Center Email account.
  - o Email Address. The unique address of your Control Center Email account.

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• Attachment File Size Limit (MB) – set the file size limit for email attachments. The attachment file size limit should be the same as your company's attachment file size limit. If this option is not set, then the attachment file size is unlimited.

#### Note: This property only applies to video clips.

If you do have an attachment file size limit on your Email server and you do not set the **Attachment File Size Limit (MB)** option, and you try to export a video job whose attachment file size exceeds the limit on your Email server, then, even if you select the **Send via Email** checkbox, and the status of the job is **Successful**, the email is not sent. If you check the **Additional Information** column for your export job, a **See tasks for more warnings** message is displayed. If you double-click this, a **Could not attach to email** (exceeded maximum attachment size) error is displayed for your job.

- 5. Enter your Email server details as follows:
  - Server address Enter the machine name or IP address of your Email server.
  - **SMTP Port** Enter the port number used by your Email server. The default is 25.
  - **Authenticate** Select this checkbox if you want the email recipient's username to be authenticated with Email server.
  - **Using SSL** Select this checkbox if you are using SSL to encrypt your email messages.

## Video Export Configuration Settings

The Video Export Manager enables Server Administrators manage server resources, destination folder, file size, video export duration, and video export reports.

It may be important, for example, to set the location of exported video to a secure folder on an intranet to ensure it is not viewed inappropriately. Equally, limiting the size and duration of the video export could help Server Administrators manage production servers during busy periods.

- Click System > System/Video Export Scheduler. The Video Export Manager appears. The Video Export Manager is set out in tabs for:
  - My Jobs
  - Queued jobs
  - Completed jobs
  - Configuration Settings
  - Defer Locations
- 2. Click the **Configuration Settings** tab. The **Configuration Settings** tab appears.

#### **Video Export Folder Options**

The left frame of the tab sets the Export Folder options available to users exporting the video footage.



The Default Path specifies the default folder for storing exported video, which is presented to users when defining a new export. This must be an available folder on the network or a local hard drive. To enter a new folder, search for it using the folder browse button or enter the folder location (such as \\10.10.10.10\security\CCTV\VideoExport).

The Selection Mode user control specifies how the folder options are presented to users defining exports – as a pop-up dialog, a drop-down list, or both.

The Available Folder Paths contain the list of folders that are presented to users for video export. For example, a user may be permitted to save video on more than one network server.

To add a new video export location:

- 1. In the Video Export Manager dialog > Configuration Settings tab, click the Default Path and then select the required Selection Mode.
- 2. Click Add.

### Video Export Folder Thresholds

The video export file size and export time is estimated when the export task is defined. To manage server resources, you must limit the video export file size and export time for each task. You can also set the maximum file size, export time, as well as a warning level, which are called thresholds.

- To set a warning level for file size or time, enter the amount in the **Warning** field.
- To set the error level for a file size or time, enter the amount in the Error field.

#### Video Export Report

When a video export job is complete, a report can be produced in the default folder. The video export report is produced based on a report template. The report template that is used for the report is specified in the Export Report field.

When all the Configuration Settings are set to the environment, click Save.

**Note**: If navigating away from the **Configuration Settings** tab without clicking **Save**, a warning appears prompting to save changes.

#### My Jobs Tab

If you have any video export jobs defined in the system, they appear in My Jobs tab. The video export jobs appearing in the My Jobs tab can be filtered by Status, Schedule or Location.

- 1. In the Video Export Manager dialog, click My Jobs. The My Jobs tab appears.
- 2. To change the **Status** filter, click the first drop-down that shows **Any**. The job status options appear and includes:
  - Successful
  - Canceled
  - o Failed
  - o Queued
  - o In Progress
  - $\circ$  Completed



- 3. To change the **Schedule** filter, click the second drop-down that shows **Today**. The job schedule option appears and includes:
  - Last 24 hours
  - Last 48 hours,
  - Last 7 days,
  - Last 2 weeks,
  - Last 4 weeks
  - Anytime.
- 4. To change the **Location** filter, click **Location**. The Control Center locations appear displaying the locations throughout the organization.

### Creating a New Video Export

To create a new video export:

- 1. Double-click a camera in a tile to display the Playback Timebar.
- 2. Select a specific duration for which you want to export the video by hovering on the timebar and selecting it with the mouse, then right-click and select **Export Video**. The **Video Export Wizard** appears.
- 3. Click **Next** to continue.
- 4. Click Name and enter a name, for example Incident 33 Public disturbance.
- 5. Enter a short description and click **Next**. The **Load Template** page appears. When using video export for the first time, there are no saved templates however a previously saved export job can be saved as a template for reuse. Using a template is useful when a camera location or period of time is frequently requested.
- 6. If setting up the first video export job, select **Do not use a template** and click **Next**. The **Video Source Selection** page appears. The **Video Source** page presents all the camera devices within Control Center to which the logged in user has access. The devices are grouped by Location. Individual or multiple devices can be selected, or even an entire Location and all the devices in that Location.
- 7. Select the camera devices to export video from and click the right arrow button to move it into the **Selected Tasks** field.

**Note**: Use the Ctrl and Shift key to select multiple devices.

8. Click **Next**. The **Options** page appears. The **Options** page allows the footage date and time range, the video export path and job priority to be entered.

**Note**: Exporting video can be a time-consuming, processor-intensive, and memory-intensive process. To reduce interruption to other services, select the most precise incident time possible and set the job priority appropriately

9. Click **Start Time** and then select a date and enter the start time.



- 10.Click **End Time** and enter the date and end time for the video export. For training purposes, select a narrow time range to expedite the export. The **Location** field is used to specify the folder to which the video export is deposited. The options available here were configured in the **Video export folder** options.
- 11. Select the location for the video export. The Video Export Service prioritizes export jobs with Priority 1, regardless of when they were created, or the number of low priority jobs already present in the export queue.
- 12.Select **Normal** priority and click **Next**. The Export Scheduler Wizard calculates the estimated video export size and export time. The **Summary** page appears with the estimated Completion Time, Download Size and Total Tasks.
- 13. If forensic review of a video clip is required, you can email your video clips to the different authorities involved by selecting **Send via email**. The **Email** page displays.

Export Sche	eduler Wizard	×
Options Specify	the export options	
	Start/End Date Time       Specify the start and end time of the required recorded video         Start Time       12/23/2019 11:39:00 AM         End Time       12/23/2019 11:39:10 AM         Location       specify the location to which to export the video to         Path       • CNL Software LTD\My Documents ✓ ✓	
	Job Priority Specify the priority of the job in the queue Priority Normal ~	
	< Back Next >	Cancel

**Note**: This checkbox is only available if you have configured your Email server settings in Control Center. See <u>Sending Emails From Control Center</u>.

14. Configure the Email page as follows:
------------------------------------------

Name	Description
Email address	Add a valid email address.



Subject	Add the subject of the email message.
Message	Add the body of the email message. <b>Note</b> : Messages are stored in the Pacific database.

15. Select Next.

16.Select Submit.

If the export size and duration thresholds set in **Configuration Settings** are exceeded, warnings and errors are displayed in red on the **Summary** page.

The video export may have a status of **Successful** even though an email was not sent. Check the **Additional Information** column for your export job. If there are any issues with the job, a **See tasks** for more details message is displayed. Double-click this message for more information.

If you selected **Send via Email** and you have selected more than one camera to export video from, then Control Center adds each clip as a separate attachment, as long as the total number of attachments does not exceed the attachment file size limit. If one of the video clips causes the file attachment size limit to be reached, that clip is not attached and a **Could not attach to email** (exceeded maximum attachment size) error is displayed for that clip in Additional Information.

Video export jobs are saved to disk so if you do have a video clip that has not been sent then you can send that clip in a separate email.

### Saving Video Export Templates

The Export Scheduler Wizard also allows you to save a template.

To save the exported template, from the **Summary** page of the **Export Scheduler Wizard**, click **Save Template**. For example, you can save a template for frequently exported camera locations.

### **Viewing Video Export Jobs**

To view the video export jobs:

1. Click **My Jobs**. The video export job appears in the list.

**Note**: If the job does not appear in the list, click the **Queued** tab while it is processing.

2. Locate the job in the **My Jobs** tab and then click the hyperlink label to view the job details. The job appears in a new tab and includes details of the original task, the information about the requestor, request time, actual start and finish time, and priority. It also includes a link to the destination folder to locate the exported video material.

## **Deferring Video Exports by Location**

To manage system resources, you can defer video export tasks to run out of office hours, for example. Video export jobs are still run based on priority but outside the deferred time windows. To defer video exports:

1. Click the **Defer Locations** tab. The **Defer Locations** tab appears.



- 2. Click the **Search** button beside the **Location** field. The Control Center search objects dialog appears.
- 3. Enter the location or use the **Find Now** button to locate the Control Center location that is to be deferred. Double-click to select it.
- 4. Enter the time frame during which video export is to be deferred in the **From** and **To** fields.
- 5. When complete, click **Submit**. Video export jobs submitted in the time frame selected are deferred until after the suspension window.

Note: To cancel a deferred location, select it in the list and click Cancel.

## Dynamically Launching the Video Export Wizard

It is now possible to launch the Video Export Wizard dynamically from a response plan or a custom User Interface. The option to launch the wizard is exposed as a function of the Windows Client object called Show Video Export. Additionally, using the Show Video Export With parameters function in the Window Client object, you can launch the Wizard with a set of parameters, for example, a list of cameras. These functions can be used to, for example, create a button on the Main menu that enables an end user to invoke the Video Export wizard.

## Configuring Video Export Button on the Main Menu

Configuring a button in Control Center involves configuring two types of settings:

- 1. Display Settings
- 2. Button Clicked event settings

### **Configuring Display Settings**

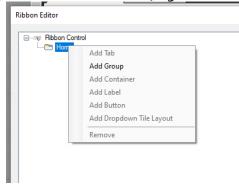
To configure display settings for the Video Export button:

- 1. Open System Configuration > System Objects. The System Objects pane appears.
- 2. From the **Graphical User Interface** section, double-click the **Main Menu** object. The **Main Menu** object opens in the GUI Designer.
- 3. With the Main Menu GUI object selected, in the **Properties** pane, click **Custom Menu ItemsCollection**. The **Ribbon Editor** appears.

```
        △
        Other

        Custom Menu Items
        (Collection)
```

4. In the **Ribbon Editor**, right-click **Home** and select **Add Group**. A new group is added.



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- 5. Rename the group to provide a meaningful name, such as **Video**. This will appear in the main menu as the title of the group.
- 6. Right-click the newly created group, in this case Video, and select **Add Button**. A new button icon appears in the main menu GUI control.
- 7. Select the button to rename it with a more meaningful name, such as Video Export.



- 8. In the **Properties** pane on the right, click the **Name** property and rename the button to **Video Export**.
- 9. Click **OK**. The Main Menu GUI object displays the newly created Video Export button on the toolbar.



10. From the GUI Designer, right-click on the Main Menu title bar and click **Save**.

## **Configuring Button Clicked Event Settings**

To configure button clicked event settings for the Video Export button:

- From System Configuration > System Objects, double-click to open the Main Menu Graphical User Interface. The Main Menu object opens in the GUI Designer.
- 2. From the GUI Designer, select the **Video Export** button from the drop-down list.
- 3. From the **Events** drop-down list on the right, select the **Clicked** event. The Video Export **Clicked** Event Page opens in the Response Plan Editor.

(Events)	
🗊 (Events)	
💋 Clicked	

- 4. Configure the **Video Export\_Clicked** Event from the Response Plan in the following order:
  - a. Create a new optional **Windows Client Page** variable and rename it to Windows Client.
  - b. From the Shapes palette, drag and drop the Copy Variable onto the editor.
  - c. With the **Copy Variable** selected, in the **Properties** Pane, specify the following details:
    - Source Variable Current Generic
    - Target Variable Windows Client
  - d. On the **Succeed** route, drag and drop the **Dynamic Action** shape.



- e. Configure the **Dynamic Action** shape with the following information:
  - Target Object Response Plan Variable
  - Target Object Windows Client
  - Actions Show Video Export
- 5. Right-click anywhere in the editor and select **Finish All Routes**.

VideoExport_Clicked
VideoExport_Clicked
[Ribbon Button]
Copy Variable
Swcceed
Fail Wizard

- 6. Save the response plan.
- 7. Return to the GUI editor and save it. Then switch to the main menu display. The **Video Export** button appears on the main toolbar.



8. From the main menu toolbar, click Video Export. The Export Scheduler Wizard appears.

#### Populating Video Export Wizard From the Client

To populate the Video Export Wizard:

1. From the **System Configuration** window, click **Computers**.



2. Select the **Windows Client** object for the client you need to view the Video Export Wizard for.

 Windows Client

 Image: Windows Client

 Image: Client Computer with the IP hostname of TEST17SER... Windows Client

 Image: Windows Client Computer with the IP hostname of TEST18SER... Windows Client

 Image: Client Computer with the IP hostname of TEST18SER... Windows Client

3. On the **Properties** pane, click the **Show Video Export** button. The **Export Scheduler Wizard** appears.

Export Scheduler Wizard		$\times$	
	Welcome to the Video Export Vizard		
	< Back Next > Cance	el	•

4. Click **Next** to continue with video export.

#### Showing Video Export Wizard with Parameters on the Client

To show Video Export Wizard with parameters on the client:

- 1. From the **System Configuration** window, click **Computers**.
- 2. Select the **Windows Client** object for the client you need to view the Video Export Wizard for.

Windows Client		
🗉 🛒 test17server.cnluk.com	Client Computer with the IP hostname of TEST17SER	Windows Client
🗉 📑 test 18server.cnluk.com	Client Computer with the IP hostname of TEST18SER	Windows Client



3. On the **Properties** pane, click **Show Video Export With**. The **Show Video Export With Parameters** dialog appears.

Show Video Export With Parameters	$\times$
	-
Run the Show Video Export With Parameters function	
Shows the Video Export Wizard with parameters on this dient	
Specify required information to run the function	
To run the requested function the following information is required. Please fill in the properties below and click OK to continue.	
✓ Show Video Export With Parameters	
Devices	
Finish Time	
Start Time	
Devices The list of devices to export.	
OK Cancel	

- 4. From the **Show Video Export With Parameters** dialog, click **Devices**. The **Search Objects** dialog appears.
- 5. Click **Find Now** and select a video device that you want to export the video for.
- 6. Click **Finish Time** and specify the finish date and time for the video footage that is being exported.

0, 10 0, 00 0,								
Finish Time							×	
Start Time								
	•	May 2018						
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	21	22	23	24	25	26	27	
	28	29	30	31	1	2	3	
	4	5	6	7	8	9	10	
		Ľ	T I	oday:	16/05	/2018		

7. Click **Start Time** and specify the start date and time for the video footage that is being exported.

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tart Time	Time 5/15/2018							
	•	May 2018						
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	30	1	2	3	4	5	6	
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	28	29	30	31	1	2	3	
	4	5	6	7	8	9	10	
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- 8. Click **OK**. The **Export Scheduler Wizard** appears.
- 9. On the **Export Scheduler Wizard**, click **Next**. Specify a Label and **Description** for the video export template and then click Next.
- 10. On the Load Template page, select Do not use a template option and then click Next.
- 11. On the Video Source Selection page, leave the default selection unless you need to change it. The Selected Tasks pane displays the camera that was selected in step 5. Click Next.
- 12. On the **Options** page, verify if the **Start/End Date Time** are populated correctly.
- 13. Click **Browse** to specify the destination path for the video that is being exported and then click **Next**.
- 14.On the **Summary** page, click **Submit**. The **Export** process is initiated.

#### Using Video Export Wizard Shortcut

The Video Timebar allows you to export a video while it is in Playback mode using the Video Shortcut option.

#### **Troubleshooting Video Exports**

#### Video Export Report Generated Without Template

If the report template specified in the **Configuration Settings** tab of the Video Export Manager is deleted, then video export reports are still generated after the video export is complete. To stop the generation of reports, open the **Configuration Settings** and remove the report template.

#### Video Export and Device Driver Packages

If the device driver package already existed on the Video Export Server prior to installing Control Center, the old package must be deleted and replaced with the latest driver pack. It is also advisable to delete the temporary files for the package (located in c:\windows\temp\CNLorthe Local Settings\Temp\CNL folder of the user). After any update to the drivers on the Video Export Server, it MUST be restarted.

**Warning**: Restarting the Video Export server while video exports are in progress may result in loss of data.



## Video Surveillance Control Board

The Command Center is bundled up with the Joystick feature which enables you to display cameras on a tile layout and control the angles or the directions of the device (if it is a PTZ camera). You can choose to perform all the PTZ actions such as Live/pause/playback and take snapshots of the video being played using the controls on the Joystick Control Board.

The control board has 3 units as listed below which can be connected separately or as a hub and can be placed in any order to suit your requirements.

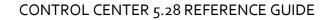
- AXIS T8311 Video Surveillance Joystick
- AXIS T8312 Video Surveillance Keypad
- AXIS T8313 Video Surveillance Jogwheel

The Command Center comes with a preconfigured object for Joystick control board when the addon is installed. It is important to note that the addon can only be used with the latest version 5.8.7 of the Command Center. For the use of the Joystick feature, you need to upgrade the Command Center to version 5.8.7 using the Upgrade Manager and install the Joystick addon separately. The addon comes packed with the standard installation kit. For installation steps, please read the installation manual.

#### Note:

- The addon needs to be installed first before upgrading the Command Center to the latest version.
- The addon must be installed on both Server side and Client application.

Double click the Video Surveillance Control Board object to open the User interface where you can configure the actions for the keys/buttons on the Video Surveillance Control Board. The actions for each of the keys comes preset as the part of the solution, but these can be changed at any point by the administrator to suit the requirements.



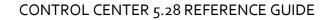


## Joystick

System Configuration - NOT FOR RESAL	E				– 🗆 X
File Edit Window Help					
Folders 🔻	Overview - Contro	Board New Video Surveillance	Control Board 🛛 👻 🗙	Properties - (New	Video Surveillance Control Board)
Type Search Text Here	Joystick T8311		~	:: <u>2</u> ↓ E	
<ul> <li>Entire Enterprise</li> <li>         My Organisation     </li> <li>         Organisation     </li> <li>         Computers     </li> <li>         Ources     <li>         My Locations     </li> <li>         Services     </li> <li>         System Objects     </li> <li>         Ources     </li> <li>         Ources     </li> <li>         System Objects     </li> <li>         Ources     </li> <li>         Ources     </li> <li>         Ources     </li> </li></ul>	Button J1 J2 J3 J4 L R	Action SetFocus Snapshot Close FullScreen ShowLiveView ShowPlayback	· · · ·	General Setting     Created     Description     Enabled     Label     Owner     Tag     Permissions     Security	gs 2/14/2019 1:04 PM Video Surveillance Control Board True New Video Surveillance Control E Administrator Security Settings
Arotation	Key Pad T8312 Jog Wheel T8313		• •		when this object was first created.

There are six keys on the joystick control board which are configured as shown in the table below.

Keys	Actions
Jı	<b>SetFocus</b> : Highlights the tile selected. Select the tile and <b>SetFocus</b> button to highlight.
J2	<b>Snapshot</b> : Takes a snapshot of the video being played in the selected tile.
J3	<b>Close</b> : Closes the camera on the tile.
J4	FullScreen: Plays the video of the tile selected in full screen.
L	<b>ShowLiveView</b> : Plays live video from the camera of the tile set to focus.
R	<b>ShowPlayback</b> : Playback the recorded video from the camera of the tile set to focus.





## Keypad

System Configuration - NOT FOR RESALE						– 🗆 X
File Edit Window Help						
Folders	Overview - Control Boar	d New Video Surveillance Control Bo	ard 🗸	- x	Properties - (New Vide	eo Surveillance Control Board)
Type Search Text Here	Joystick T8311	-	~	Â	<b>:</b> :::::::::::::::::::::::::::::::::::	
<ul> <li>Entire Enterprise</li> <li></li></ul>	Key Pad T8312		^		✓ General Settings Created	2/14/2019 1:04 PM
<ul> <li>Computers</li> <li>Data Connections</li> </ul>	Button	Action			Description Enabled	Video Surveillance Control Board True
Devices	View Camera	ChangeDisplayArea ChangeCamera	~		Label Owner	New Video Surveillance Control E Administrator
⊳ 🚘 Media ⊳ 🥘 My Locations	Preset	ChangeTileNumber	~		Tag <ul> <li>Permissions</li> </ul>	
<ul> <li>Services</li> <li>System Objects</li> </ul>	Time	SetFocus ClearAllSettings	~	_	Security	Security Settings
System Objects System Objects System Objects	Settings F1	FullScreen	~	-		
Control Board	F2	AutomaticNextTile	~			
Modules	F3 F4	StickyTile ResetNextTile	~			
<ul> <li>Inknown Location</li> <li>User Objects</li> </ul>	F5	Close	~			
Disers	Tab	ExecuteCommand	~		Created	
b 🙀 Web Objects	Alt	ExecuteCommand	~		The date and time of when	this object was first created.
1 object selected.	Joa Wheel T8313	Å	× Administra		T DESKTOP-0TNPT8F	IPSC-TS019.CNLUKDEV.com

Keys	Actions
View	<b>ChangeDisplayArea:</b> Press this button and the display area number for selection.
Camera	<b>ChangeCamera</b> : Press this button and the Camera number for selection.
Preset	<b>ChangeTileNumber</b> : Press this button and the tile number for selection.
Time	<b>SetFocus</b> : Highlights the tile selected. Select the tile and SetFocus button to highlight.
Settings	ClearAllSettings: Clears all actions previously done.
Fı	<b>Fullscreen</b> : Plays the video from the camera of the tile selected in full screen.
F2	AutomaticNextTile: Puts the cameras being selected in consecutive tiles. If all the tiles are occupied, it goes back to the first tile in the display area and replaces the camera in it.
F <sub>3</sub>	<b>StickyTile</b> : Places the cameras being selected in the tile on focus.
F4	<b>ResetNextTile</b> : Takes the focus back to the first tile in the display area.
F5	<b>Close</b> : Closes the camera displayed on the tile selected.

The keypad has thirteen actions configured into the board as shown in the table below.

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Tab

Alt

**ExecuteCommand**: Executes the action command.

**ExecuteCommand**: Executes the action command.

## Jog Wheel

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File Edit Window Help								
Folders 💌	Overview - Control Board	New Video Surveillance Control Board	- × ×	: Pro	perties - (New Video	Surveillance	Control	Board)
Type Search Text Here	Joystick T8311		~	•-	2↓ 🖻			
▲ Constitution A state of the state of t	Key Pad T8312		~		General Settings	2/14/2019 1:0	14.014	
<ul> <li>My Organisation</li> <li>Computers</li> </ul>	Jog Wheel T8313		~		Created Description	Video Surveilla		rol Board
<ul> <li>Data Connections</li> </ul>					Enabled	True		
Devices	Button	Action			Label Owner	New Video Su Administrator	rveillance	Control E
Media	Bookmark	Snapshot ~			Tag	·		
b 🤤 My Locations	Previous	NoAction ~			Permissions Security	Security Settin		
b Services	PlayPause	PlayPause v			Security	Security Seturi	gs	
▲ System Objects	Next	NoAction ~						
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b 🙀 Web Objects				The	date and time of when th	his object was fir	rst created	i.
1 object selected.		🚨 Admir	nistrator	T DE	ESKTOP-OTNPT8F 🧃	IPSC-TS019.CN	NLUKDEV	.com 🔐

Jog Wheel has six buttons with actions configured as shown in the table below.

Keys	Actions
Bookmark	<b>Snapshot</b> : takes a snapshot of the video for future use.
Previous	No action has been configured.
PlayPause	<b>Play/Pause</b> : Play/Pause a video from the camera of the tile set on focus.
Next	No action has been configured.
Live	ShowLiveView: Use this to switch to Live mode from Playback.
Recorded	ShowPlayback: Play back video from a camera from the selected tile.

## Working with Video Surveillance Control Board

The Video Surveillance Control Board solution comes with a configured object that can be found under system objects folder. The actions to all three boards are configured as mentioned in the table above but can be changed by the administrator to suit the working environment.

Double click on the object to open the Video surveillance configuration page. You will be able to see three tabs which displays the configuration for the three control boards of the Joystick unit.



The control tabs and the actions configured for each button on the corresponding control board is as shown in the previous section.

**Note**: Click on any tab to view the configuration of the keys on the control board.

#### Assigning Unique Values to Display Areas and Devices

To be able to use the control board effectively, the cameras need to be identified by the control board through a unique identifier and displayed onto a display area or a video wall which can be recognized by the control board. To do this, a new key Map Id variable is introduced under General settings in the properties window of the display area and the devices, which takes a positive numerical value.

Note : The value assigned to this variable has to be unique for each device and display area.

To do this:

- 1. Go to System Configuration > System object > Modules > Display areas.
- 2. Select the display area you want to assign the Key Map Id to.
- 3. In the Properties window on the right, select the Key Map Id.
- 4. Enter a unique positive number.
- 5. Select Save.

In the screenshot below, System Right Display area under System Objects is been assigned a Key Map ID value of 1.

	Search in System Objects	0	11 <u>}</u> ↓   m			
abel	Description	Type	~ ~	<ul> <li>Display Area Appe</li> </ul>	arance	Ĩ
				Allow Drop	True	
System Dashboard	Default dashboard used by clients with no override in	Dashboard	1	Border	False	
				Tile Aspect Ratio	Fill	
Date/Time Schedule				Tile Layout Aspect Ra	tio Fill	
				Tile Menu Mode	All	
24 x 7 Allow	This default Date Time Schedule permits operation at	1233 (D. 120) (C. 1	100	General Settings		
Alarm Maintenance	This default Date Time Schedule denotes when the al			Created	2/13/2019 11:50 AM	
System Maintenance	This default Date Time Schedule denotes when the s	Date/Time		Description	The right hand side display	ap
				Enabled	True	_
Display Area				Key Map Id	1	_
System Alarm Stack	The main lower display area of the system.	Display An	-	Label	System Right	_
System Left	The left hand side display area of the system.	Display An		Owner	System	_
System Main	The main display area of the system.	Display An		Tag • Object-Specific Fu	и. — Д. — н.	i
System Main Right	The main right display area of the system.	Display An		Close Contents	inctions/Properties	1
		1. 1.		Close Contents On Cli	oni	-
System Popup	The popup display area of the system.	Display An		Close Contents On Sir		-
System Right	The right hand side display area of the system.	Display An		Hide When Empty	False	-
Enterprise Settings						l
citerprise sectings				Security	Security Settings	1
🙀 Local Enterprise Settings	Enterprise Settings	Enterprise			1. St	
Folder			1.50	<b>Key Map Id</b>	o have a unique key map identi	fi
<u>~</u>			׼	terre each diapidy area t	o navo a oniquo koy mup laona	



The screenshot below shows a camera being assigned a Key Map ID of 2.

Overview - Default	New Video Surveillance Control Board	Properties - ([March8707NVR] < <video>&gt; 5)</video>						
	Search in Default	Q	<b>:</b> <u>à</u> ↓ 🔤					
Label	^ Description	Type	Tag					
		1. 1.	Timebar Events	No events				
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			Visible Objects					
🗄 🔏 [March8707NVR] < <vide< td=""><td>o&gt;&gt; 4 March Networks Camera</td><td>March Netw</td><td>✓ Misc</td><td></td></vide<>	o>> 4 March Networks Camera	March Netw	✓ Misc					
🖽 嘴 [March8707NVR] < <vide< td=""><td>o&gt;&gt; 5 March Networks Camera</td><td>March Netw</td><td>Key Map Id</td><td>2</td></vide<>	o>> 5 March Networks Camera	March Netw	Key Map Id	2				
-			✓ Permissions					
Media			Security	Security Settings				
- D		14 - 52	✓ Properties					
🗄 📄 WorldMap	Schematic map of the world	Media	Default Video Resol	utic High				
Scene Schematic			Enabled	True				
Scelle Schematic			ID	32				
🗄 🙀 Default	The default scene for the default location.	Scene Scher	Label	[March8707NVR] < <video>&gt; 5</video>				
		Constant of the second second	Recorder ID	4				
			Talk Channel	Not set				
			✓ PTZ					
			Presets Supported	False				
			PTZ Supported	False				
			Select Preset	Click to run				
			✓ Service					
			Base Address	net.tcp://IPSC-TS019:9099/Cc				
			Identifier	17fbe5f2-6316-4c49-a38f-d543 >				
			Key Map Id Allows each device to h	ave a unique key map identifier				
<		>		IPSC-TS019.CNLUKDEV.com				

### Using the Key Map ID's to Display a Camera

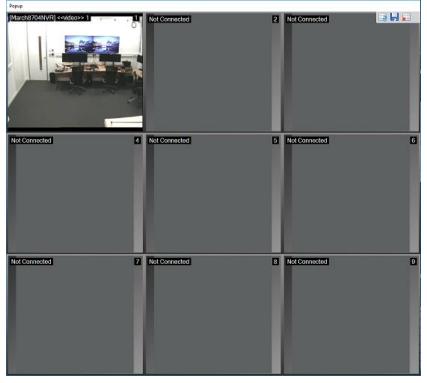
Assuming the Key Map ID for display areas and devices have been set priorly, the following procedure will take you through the process of displaying the camera on a tile layout and performing various actions on it.

To display a camera on a tiled display area, do the following:

- 1. Go to **System > Setup Display** window.
- 2. Choose the Display area you want to display the cameras on. For example: **Popup**.
- 3. In the properties of the display area, set Allow Drop and Allow Tile Menu to True.
- 4. Return to the Main Screen of the Command Center and select a **g-way** tile layout and drop it onto the **Popup Display** area.
- 5. On the Keypad Control board, press the View Button and then 2 (considering that the Key Map ID for Popup display area is 2), to select the display area.
- 6. Press the Camera Button and 2 to select the camera.
- 7. Press Preset and 1 to select the tile.
- 8. Press Alt or Tab to execute the command.

This displays Camera 2 in tile 1 of the display area Popup, as shown in the screenshot below.

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## **Displaying Cameras on Consecutive Tiles**

For a camera to be displayed on a tile there are selections to be done.

- Display area
- Camera
- Tile number

In cases where the display area remains the same and the tile number is the adjacent one to the tile on focus, you just need to key in the camera number using the AutomaticNextTile action on the keypad control board. This is done by following the simple steps explained below:

- 1. Display a camera on tile 1 of the display area as explained in the previous section.
- 2. Press F2, which initiates the AutomaticNextTile action.
- 3. Press the Camera button and the camera number on the keypad control board.
- 4. Press the Alt or Tab button to execute the command.
- 5. Continue step 3 and 4 until all the tiles are filled up.
- 6. Press F4 which initiates the **ResetNextTile** action. This, effectively, stops the **AutomaticNextTile** action and takes the focus to tile 1.

The tiles are filled with different cameras using the **AutomaticNextTile** action, as shown below.





Note:

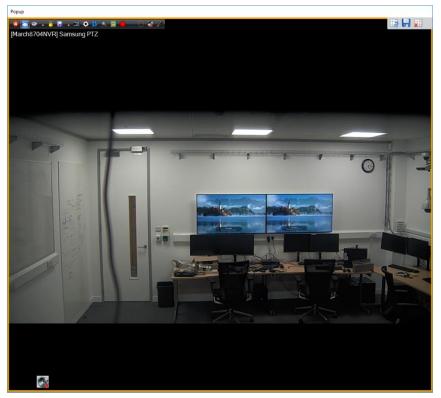
- This action can be started on any tile number, not necessarily on tile 1
- If the AutomaticNextTile action is continued after all the tiles have been occupied, it then starts to replace the camera from tile1.

### Displaying Cameras on the Same Tile

If you wish to have a closer look at the video from a camera, select a tile and enlarge it to be displayed in a Fullscreen size. Furthermore, you can also select different cameras to view on the same tile in the Fullscreen mode. To achieve this, do the following:

- 1. Display a camera on a tile as explained in Displaying Cameras on Consecutive Tiles.
- 2. Set focus on the tile you want to enlarge by pressing the J1 button and selecting the tile number. The selected tile will have a highlighted orange border.
- 3. Press J4 on the Joystick control board to display the tile in Fullscreen.





- 4. Press F<sub>3</sub> on the keypad control board to kick off the sticky tile action.
- 5. Press the camera button and the camera number on the keypad control board.
- 6. Press Alt or Tab button to execute the command.
- 7. Repeat step 5 to display different cameras on the same tile.

### Taking Snapshots From a Video

Snapshots can be taken from a live video and saved on to the disk or as a media file in the Command Center. Snapshots can be taken from a camera on a tile or when it is in Fullscreen mode. Follow the simple steps mentioned below to save the snapshots:

- 1. Display a camera on a tile or enlarge the tile to **Fullscreen** using the method mentioned above.
- 2. Press the bookmark button on the Jogwheel or J2 button on Joystick to initiate the **Snapshot** action. The **Snapshot** window appears for you to choose where the snapshot needs to be stored. You could select saving on to the disk or as a media file in the



## 

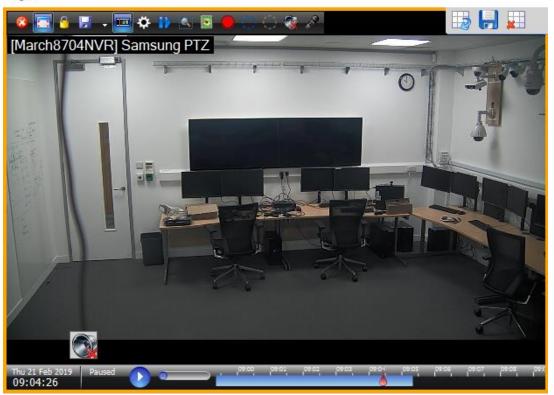
#### Snapshots folder under User Objects in System Configuration.

#### Play/Pause Recorded Video

You can Play/Pause a video in the recorded mode to have a closer look or save a snapshot for future use. The Live(L) and Recorded button(R) button on Joystick or Jog wheel will allow you to toggle between the live feed and recorded mode. While playing the recorded video you could pause and then resume play with the Play/Pause button on the Jogwheel.



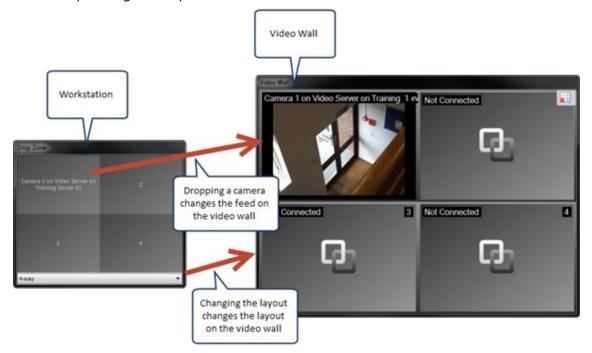
Right





## Video Wall

Control Center comes in-built with a Video Wall functionality natively and enables you to interact with third-party Video Walls. This allows users to control video wall layouts and content, most commonly through a Drop Zone control.



## **Configuring Control Center as a Video Wall Client**

To configure a Control Center workstation to be a Video Wall follow these steps.

- Add Display Areas Create a Display Area for each Video Wall screen connected to the workstation. Position the display areas to fill the screens.
- Add Tile Layouts- Create a Tile Layout object per video wall screen.
- Configure the Client Create a GUI and then configure the Client in Properties.

To configure the Client:

- 1. Select the Client Computer object that should be used as a video wall.
- 2. Select the **Video Wall Client** property and click the drop-down that appears when selecting **Disabled**.
- 3. Check the Video Wall Enabled checkbox.
- 4. Add the display areas and tile layouts to be controlled on the Client by clicking the **Add** button and finding and selecting the display areas and tile layouts.



Display Area	Tile Layout	Add
Video Wall Left Video Wall Right	Video Wall Left Video Wall Right	Remove

The client has now been configured to act as Video Wall.

## Configuring a Third-Party Video Wall

A third-party video wall does not require any specific configuration in Control Center other than being added.

## Configuring a Video Wall Control

Video walls can be controlled through response plans or through the Control Center user interface by using Drop Zone controls. A Drop Zone illustrates the current layout and content of the video wall and allows you to change the layout, content and so on.

The following drop zone controls are available in the User Interface designer:

- Drop Zone Used for configuring a drop zone for a specific video wall screen.
- **Control Room Drop Zone** Used for automatically discover and control all video walls configured in a selected folder.

To configure a Drop Zone control:

- 1. Create a Graphical User Interface and provide a name, for example, Video Wall.
- 2. From the **Visual** palette, drag and drop a Drop Zone control onto the design surface.
- 3. In **Properties**, set the **Dock** property to **Fill**.



A System Configuration - NOT FOR RESALE	Married Voltage & Surger	W Controller		-	=	Company States Winner	
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Administrator	📕 💺 Design Surface [ 🔚 🛛	Event Pages		4 Þ	4	Basic Settings	
Alarm Types	9					Anchor	Top, Left
Applications						Dock	Fill
Dashboard						Enabled	True
Geographics					Þ	Location	0, 0
Layout					Þ	Margin	3, 3, 3, 3
Process Guidance						Name	guiDropZone1
Visual					⊳	Padding	0, 0, 0, 0
Pointer					Þ	Size	450, 365
						Tab Index	0
Alert State Viewer						Tab Stop	True guiDropZone1
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Control Room Drop Zone					-	Behaviour	Thue
Displays a drop zone for each					Ĩ	Allow Layout Change	False
Device Icon						Available Lavouts	(Collection)
Icon representing a device(s)						Clear Layout Definition	(
Drop Zone						Leasing Enabled	False
Provides a visual drop area ba						Selected Layout	1-way
Icon						Set Tile Text On Object Drop	False
Simple icon picture box.						Show Clear Button	False
Terrare and the second s						Show Tile Close Button	False
Specifies the Image used as t						Video Wall Client	Jonl.cnluk.com
						Video Wall Display Area	Video Wall Left
Object Selector A control that can display a lis						Video Wall Display Area Device	
						Video Wall Layout	Video Wall Left
Perimeter Displays a perimeter for aiding							
Displays a permeter for alding	: Triggers			<b>v</b>			
Powered By Displays the Powered By IPSe	0 <b>b</b>						
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1 object selected.					1	💈 Administrator 🕽 Jonl.cnluk	com 🥃 Jonl.cnluk.com 💥

## Using a Control Center Workstation as a Video Wall

To configure the drop zone to control a Control Center Client, update the **Video Wall Client** property so that the video wall client is selected. Then update the **Video Wall Display Area** and **Video Wall Layout** properties to point to the previously configured display areas and layouts.

### Using a Third-Party Video Wall Controller as a Video Wall

To configure the Drop Zone to control a third-party video wall controller, update the Video Wall Display Area Device to be the Video Wall device.

## Using a Control Room Drop Zone Control

To configure a Drop Zone control:

- 1. Create a Graphical User Interface and drag and drop a **Control Room Drop Zone** control onto the design surface.
- 2. Set the **Dock** property to **Fill**.
- 3. Set the **Folder** property to point to a folder where the Control Center Client objects exist that have been configured as a video wall. The drop zone automatically updates to reflect the configured display areas.

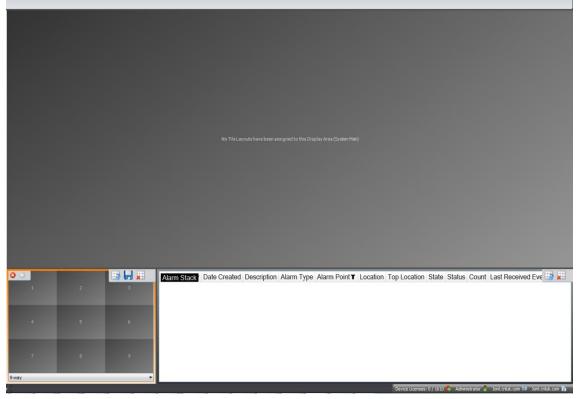
By default, the control will be laid out so that each display area to be controlled is presented next to the others in a horizontal row. This can be changed by using the Control Room Custom Layout property. Set this property to a tile layout to change how the drop zone is laid out.



## Video Wall Common Properties

In addition to the properties described for the Drop Zone and Control Room Drop Zone controls, you can configure the following properties:

• Allow Layout Change. When this is enabled the user to change the layout on the Video Wall by choosing an available layout from a drop-down box below the drop zone.



- Available Layouts. Use this to select which layouts should be available to the user.
- **Clear Layout Definition**. This defines what the default layout should be if the user clears the video wall.
- Leasing Enabled. Enable this to enable leasing (see below).
- Set Tile Text on Object Drop. When enabled the Drop Zone will be updated with the label of the object dropped on a tile.
- Show Clear button. Enable this to allow users to clear the video wall.
- Show Tile Close button. Allows users to close the content on individual tiles.

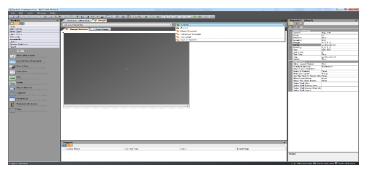
## **Drop Zone Events**

It is normally not required to handle the Drop Zone events. The standard video wall functions apply as soon as the Drop Zone has been configured and displayed. Additional functions are supported however, this is only achievable by handling the four available drop zone events below.

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- **Object Dropped** Raised when an object is dropped on the drop zone by a user.
- Tile Layout Dropped Raised when a user drops a Tile Layout object on the drop zone.
- **Tile Closed** Raise when the user clicks the tile close button.
- Layout Changed Raised when the user selects a different layout from the tile layout dropdown list.



## Using the Drop Zone

You can perform the following actions by using the drop zone control:

- Change of video wall layout by selecting a layout form the drop-down list.
- Display of a camera on a video wall tile by dragging and dropping a camera object on the drop zone
- Display of a Graphical User Interface on a video wall tile by dragging and dropping a Graphical User Interface on the drop zone
- Display of a pre-configured Tile Layout on a video wall by dragging a Tile Layout onto the drop zone
- Closing of content on the video wall by clicking the close icon on a tile or the close button below the wall

#### Notes:

- When viewing a tile layout with several sources on the local monitor, you can also drag and drop the current layout onto the drop zone control to show that content on the video wall.
- If the drop zone control does not support the layout definition in the selected tile layout, then the control will block the drop request.
- You can also change the content on a video wall from a response plan so that content can be shown as a result of an event. Do this by using the Configure Tile and Display Tile shapes.

## Video Wall Leasing

You can configure Control Center such that a user can take control of a wall to manage its content, which is also called leasing. You can also define a priority order for users and groups so that one user can take control from another user based on higher priority.



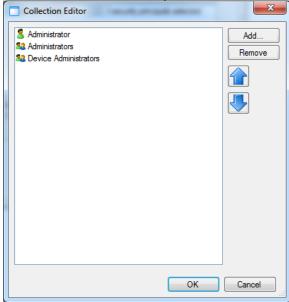
• To enable leasing, update the Leasing Enabled property on the Drop Zone or Control Room Drop Zone controls. The next time the control is shown, a Take button is displayed. A user must take control before the wall is controlled.



You can specify a user hierarchy of control over a video wall when leasing is used. So, if a lower priority user has control of the video wall a high priority user can still take control. Video Wall leasing is configured in the Security Policies editor.

To configure the Video Wall Leasing priority:

- 1. Right-click on the topmost folder where the policy should apply (for example, My Organization) and select **Security Policy...**
- 2. Select User Policies and double-click on Video Wall Leasing Priority.
- 3. Check the **Define Policy** checkbox and then click **Lease Priority** to define the priorities.





4. Add users and groups as required and organize them so that the user or group with the highest priority is at the top of the list and the user or group with the least priority is at the bottom of the list.

#### Notes:

- If a user is neither added to the policy nor a member of a group that has been added to the policy, then that user will automatically have the lowest priority.
- If a user has control of a Video Wall Drop Zone Control either via leasing or because the control is not leased) then the change in user session will cause any cameras being displayed on the Video Wall to be re-evaluated and removed if appropriate.
- If no user has active control of the Video Wall Drop Zone Control via Leasing, then the video will not be able to be re-evaluated and there must be either a commissioned or manual process implemented to remove any content left that should not be displayed after the session change.
- If the Control Center Video Wall Client is used to display content on the Video Wall, then the user that the Video Wall Client is logged in as will be treated as any other user and therefore the video will be re-evaluated after the session change, based on the membership of the groups that the Video Wall client is logged in as.



## **Performance Monitoring and Diagnostics**

A third-party tool has been built into Control Center to provide better easier diagnostics and performance monitoring. The tool is called Loupe and is provided by Gibraltar Software Inc.

All logging and performance metrics are stored to disc locally and can be sent to a central server. This will aid both integrators and Everbridge in supporting the product and helping diagnose where issues are present.

'At its core, Loupe has a lightweight assembly that runs in the background of your programs logging the data you need to troubleshoot bugs and bottlenecks in your .NET applications. In addition to recording log messages as you'd expect from any logging framework, Loupe also records unhandled exceptions, performance metrics, and important details about the execution environment of your programs.'

Source: Gibraltar Software

The logging is turned on by default but can be turned off.

To access live and recorded logs, Everbridge recommends the free Loupe Desktop application that can be downloaded from Gibraltar's web site:

https://my.gibraltarsoftware.com/Support/Loupe/Latest\_Version\_Download

A lightweight log viewer is also included with the Control Center installation and can be found in the Control Center client and server application directories as well as in the **Tools** directory.

# Providing Diagnostics Data to Everbridge When Reporting an Issue

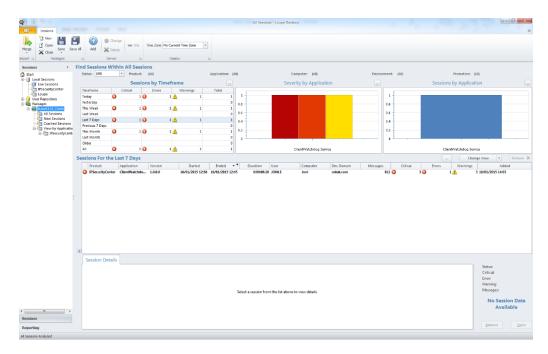
As Loupe is constantly active it is now easier to collect data from a previous occurrence of an issue when reporting an issue to Everbridge. To collect the data, follow these steps:

1. Start Loupe Desktop.

Sessions			Start - I	oupe Desktop						
	Since All Add Server IS Dipole									
ssions (										Getting Started
Start		Promotion Level Version	Started •	Duration User	Messages	Critical	Erron		Warnings	Collect data from your software
Local Sessions Uve Sessions PSecurityCenter Loupe	IPSecurityCenter Connection Ma	4.9.2.9838	16/01/2015 12:52	0:01:06:43 joni	1,489					with Loupe
	IPSecurityCenter Video Control	4.9.2.9838	16/01/2015 12:46	0:01:12:49 jonl	203					🐴 Learn more about Loupe
	IPSecurityCenter ClientWatchdo	1.0.0.0	16/01/2015 12:45	0:01:13:41 JONLS	95					
User Repository	IPSecurityCenter Windows Client	4.9.2.9838	16/01/2015 12:45	0:01:13:46 jonl	5,310 🤇	)	1 💽	29 1		Learn more about adding
Packages	IPSecurityCenter Core Server	4.9.2.9838	16/01/2015 12:45	0:01:13:52 jonl	19,332		0	131		1 Loupe to an application
	IPSecurityCenter Security Service	4.9.2.9838	16/01/2015 12:45	0:01:13:53 joni	68					
	IPSecurityCenter RulesEngine Se	4.9.2.9838	16/01/2015 12:45	0:01:13:58 joni	1,486					Live Chat
	IPSecurityCenter Notification Ser	4.9.2.9838	16/01/2015 12:45	0:01:14:00 joni	10,525					
	IPSecurityCenter Monitoring Ser IPSecurityCenter Geographics Se	4.9.2.9638	16/01/2015 12:45 16/01/2015 12:45	0:01:14:04 joni 0:01:14:05 joni	95 143					Exchange Data
	IPSecurityCenter Geographics Se	4.9.2.9838	16/01/2015 12:45	0:01:14:05 joni 0:01:14:13 joni	143					
	IPSecurityCenter Alarm Types Ser	4.9.2.9838	16/01/2015 12:45	0:01:14:13 joni	982					Get remote data delivered to y automatically
	IPSecurityCenter ClientWatchdo	1.0.0.0	16/01/2015 12:41	0:01:18:13 joni	13					
										Connect to a Loupe Serve
										Integrate with your defect trac or customer service system
										🔶 Extend Loupe with Add In
	Learn About Loupe									
	Getting Started Blog Loope News									
	Getting Started with ASP.NET MVC									
	You can integrate Loupe with your ASP.NET MVC agent with several integration options demonstrated in this video.									
	Getting Started with ASP.NET WebForms									
	Demonstrates how quickly you can have the Loupe Agent for ASP.NET monitoring your web application, providing you valuable performance and health information.									
	Getting Started with Loupe and Windows Forms									
	See how quickly you can integrate Loupe with your WinForms application in this five minute video.									
	Getting Started with Loupe and WPF									
	Watch this 5-minute video or follow the directions to integrate Loupe with your WPP application.									
	Getting Started with Loupe and Windows Services									
	Ontring Jan teo with Coope and Princes and Integrating Logical Coope into your Windows Service									
	Entity Framework Instrumentation with Loupe									
	If you're already using Loupe and Entity Framework 6, adding one assembly and one line of code will instantly provide you a wealth of diagnostic and performance info in test and production.									
	Loupe Logging Tips									
	This video provides some useful tips and best practices for logging with Loupe									
ssions	Introduction to using Loupe Server with Loupe									
	This 4-minute video walks you through using Naget to add the latest version of the Loupe Agent to your application. It then shows you the configuration settings needed to have your log data automatically submitted to Loupe Server.									
eporting										LOUPE

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- 2. Right-click on the **Packages** node in the **Sessions** tree on the left side and select to create a new package. Give the package a name relevant to the issue.
- 3. Select Control Center from the Local Sessions node in the session tree of the left-side.
- 4. Drag and drop sessions from the session list that are relevant to the issue. Typically, this is selected based on the time span of the session and the application.
- 5. Right-click on the package and select **Save As**. Save the package and send to Everbridge along with the issue description.





## **Auditing in Control Center**

Auditing enables you to keep track of the user activities concerning different modules in Control Center.

You can configure auditing across the following modules in Control Center:

- Alarms
- Device
- Federation
- Graphical User Interface
- Miscellaneous
- Security
- Snapshot
- Video Export

To be able to view auditing information, you must first configure the auditing server with the details of the Control Center server whose events you want to audit. See <u>Configuring the Auditing Server</u>.

Once you have configured Control Center to capture audit information, you can use the Audit Viewer to view your events. See <u>Using Audit Viewer</u>.

## Configuring the Audit Server

To configure the Auditing Server, you must

- provide the Auditing Server with the Control Center server connection details whose audit events you want to track.
- select the events that you want to audit.

To do this:

- 1. From the **Computers** folder, select the **Audit Server** and view the **Properties** pane.
- 2. In the MSMQ Server field, enter the audit server permissions and point this to the current server.

$\sim$	Permissions	
	MSMQ Server	test18server.cnluk.com
	Security	Security Settings

- 3. From the **Computers** folder, select the **Server** object and view the **Properties** pane.
- 4. Select Audit Server and enter the current server name.



Properties - (P-SR16-SQL16-01.dev.cnluk.com)				
:	2↓ 🖻			
$\mathbf{v}$	General Settings			
	Core Service	Core Service		
	Created	2/21/2019 11:28 AM		
	Description	Server Computer with the IP hostr		
	Enabled	True		
	Environment	Production		
	Fully Qualified Name	P-SR16-SQL16-01.dev.cnluk.con		
	Label	P-SR16-SQL16-01.dev.cnluk.con		
	Owner	System		
	Tag			
~	Misc			
	Execute Command			
	IP	10.40.71.43		
	Maintenance			
	Open URL Silently	Click to edit		
	Send Email	Click to edit		
	Send Email with Attachm	Click to edit		
	Start Clients			
	Stop Clients			
~	Performance			
	Run Performance Measu	Click to edit		
	Show Notifications	False		
	Tuning Settings	Click to edit		
~	Permissions			
	Audit Server	P-SR16-SQL16-01.dev.cnluk		
	Security	Security Settings		
~	SNMP Settings			
	SNMP Community			
	SNMP Enabled	False		
	SNMP IP Address			
	SNMP Port			

- 5. From the **Computers** folder, select the **Audit Server** and view the **Properties** pane.
- 6. Expand Advanced properties, and select next to Audit Events. Configure Audit Events displays.

#### CONTROL CENTER 5.28 REFERENCE GUIDE



Configure /	Audit E	vents					$\times$
	C	onfigure Aud	dit Events				
		configure which ev					
Alarm	Device	Device Manager	Email Manager	Federation	Graphical User Interface	Misc 4	ŀ
Alarm	Created Handle Parked Resolve Bapsed	d					
					ОК	Cancel	

For information about the events you can select on each tab, see:

- o <u>Alarms</u>
- o <u>Devices</u>
- o <u>Federation</u>
- o Graphical User Interface
- o <u>Miscellaneous Activities</u>
- o <u>Security</u>
- o <u>Snapshots</u>
- o <u>Video Exports</u>
- 7. You must stop and restart the Control Center services for your changes to take effect.

#### Configuring a Database for Audit Service

The **Auditing Service** is installed to use the database specified in the **Installation** wizard. It is possible to change this to use an auditing database on a different server. To do this, locate the connectionstrings.xml file in the **Auditing Service** application directory. By default, this is:

C:\Program Files (x86)\Everbridge\ControlCenter\ControlCenterAuditor\Debug

Edit this file and update the connection settings for the cnlAuditing tag.

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## **Auditing Alarms**

Select alarm activities in this tab for auditing alarm information to be stored in the Audit database like other areas in the system.

You can select from the following alarm activities to track auditing:

Action	Audit Entry Operation
Create Alarms	Alarm Created
Handle Alarms	Alarm Handled
Park Alarms	Alarm Parked
Resolve Alarms	Alarm Resolved
The elapsed time since the alarm was created.	SLA Elapsed
Create an Alarm activity using response plans	Activity Added by a shape
Modify alarms using response plans	Alarm Modified by shape

**Note**: It is still possible to track alarm auditing via alarm activities.

## **Auditing Devices**

Select device activities in this tab for the auditing device information to be stored in the **Audit** database.

You can select from the following device activities to track auditing, although, they are all selected by default.

Action	Audit Entry Operation	
Live Video		
Start Video	Video Started	
Stop Video	Video Stopped	
Request to view Video	View Requested Video	
Close requested Video	Close Requested Video	
Preset Recall	Preset Recall	



Preset Stored	Preset Stored	
Operator Action		
Invoke Operator Action	Operation Action Invoked	
Recorded Video		
Start recorded video	Recorded video started	
Stop recorded video	Recorded video stopped	
Telemetry		
Start	Telemetry video started	
Stop	Telemetry video stopped	

### **Auditing Federation**

Select the GUI activities in this tab for auditing in the federated environment.

Action	Audit Entry Operation		
Chiect Published	Log of users and published changes across the federated environment.		

## Auditing Graphical User Interface

Select the GUI activities in this tab for auditing.

Action	Audit Entry Operation	
Drop Zone		
Object Dropped	Dropped object to a drop zone	
GUI		
Load	Loaded GUI event	
Close	Closed GUI event	

### **Auditing Miscellaneous Activities**

Select the miscellaneous activities in this tab for auditing.

Action Audit Entry Operation	
------------------------------	--



Object		
Object Created	Created Object	
Object Enabled	Enabled Object	
Object Disabled	Disabled Object	
Object Deleted	Deleted Object	
Object Updated	Updated Object (User updates, active directory mapping updates)	
Service		
Service Started	Started Services	
Service Stopped	Stopped Services	

You can select or clear the check boxes any time. However, for the auditing changes to take effect, you must restart all the clients that are connected to the server.

## **Auditing Security**

Select the security related functions that need auditing.

Action	Audit Entry Operation	
Membership Changed		
Membership Added	Added membership	
Membership Removed	Removed membership	
Permission Changed		
Allow Added	Added Allow permissions	
Allow Removed	Removed Allow permissions	
Deny Added	Added Deny permissions	
Deny Removed	Removed Deny permissions	
Session		
Log in	Logged in back to Control Center	
Log out	Logged out of Control Center	



Session Ended	Ended Control Center session		
Forced Log out	Force logout		
System Locked	System lockout		
System Unlocked	System unlocked		
Authentication Challenge Successful	Successful Authentication Challenge		
Authentication Challenge Failed	Failed Authentication Challenge (VRP Shape)		
Failed Login Attempt	Failed login attempt (UserInvalid, UserLockedOut)		
Failed Unlock Attempt	Failed unlock attempt (VRP Shape)		
User			
Administrator Reset	Reset Administrator		
Password Changed	Changed password		
Lockout Reset	Reset Lockout		

## Auditing Snapshots

Select snapshots taken from live and recorded video for auditing.

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Configure Audit Events				×
Configure A	udit Events			
Use this dialog to configure which				
Graphical User Interface Misc	Secondary Authorization Security		eo Export	ŀ
Live Video	Attach Snaps	not To Alarm		
Snapshot				
🖂 Save Snapshot As Media				
Save Snapshot To Disk				
Print Snapshot				i.
Email Snapshot				
Attach Snapshot To Alarm				
Recorded Video				
Snapshot				
Save Snapshot As Media				
Save Snapshot To Disk				
Print Snapshot				
Email Snapshot				
		ОК	Cancel	

The user can control the audit log entries created for the following actions:

Action	Audit Entry Operation
To click the Snapshot button	Snapshot
To click the Print Snapshot button	Print Snapshot
To click the Email Snapshot button	EmailSnapshot
To click the Save as Media button	SaveSnapshotAsMedia
To click the Save to Disk button	SaveSnapshotToDisk

RecordedVideoAuditEventeventtype represents snapshots from Playback Video

LiveVideoAuditEvent eventype represents snapshots from Live Video

	Results	🚹 Messages						
		clienttypename	object1guid	object1label	object2guid	object2label	eventtype	operation
5	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	Snapshot
6	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	EmailSnapshot
7	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	Snapshot
8	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	SaveSnapshotAsMedia
9	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	Snapshot
10	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	SaveSnapshotToDisk
11	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		LiveVideoAuditEvent	Snapshot
12	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		RecordedVideoAu	Snapshot
13	uk.com	Windows	49763193-F407-4B2F-AC7C-E2CEBAE19941	Intellex Camera 02 on Intellex 1	NULL		RecordedVideoAu	SaveSnapshotAsMedia



**Note**: You can also view auditing for Device Operator actions as executed by users.

## Auditing Video Exports

Action	Audit Entry Operation					
Tile Video Export						
Start	Start exporting a video from a selected tile.					
Finish	Finish exporting a video from a selected tile					
Failed	Record any failed export attempts					
Task						
Started	Create the video export task					
Completed	Notify when the video export task was complete					
Cancelled	Notify when the video export task was cancelled					
Deferred	Notify when the video export task has been deferred					
Requeued	Send the video export task back in the queue					
Failed	Failed video export task					
Jop	·					
Requested	Video Export Server requests for an export task					
Started	Server starts the export					
Completed	Server completes the export. If the video export has been emailed, the <b>extrainfo</b> column in the <b>VideoExportServiceJobAuditEvent</b> logs the email address, subject, message,					



	success and failure reason, if an email fail to send.				
Failed	Server reports a failed export attempt				
Cancelled	Server cancels the export on request				
Deferred	Server defers the export on request				
Requeued	Server puts the export task back in the queue				
Deleted	Server deletes the video export task on request				

Using the above audit events and configuring them to generate various reports, the administrator can analyze the events more appropriately. The information available for the administrator are as follows:

- 1. User's data who have published changes to the Federated sites and also users who attempted to publish in a given time frame and what sites were affected. The outcome of the published attempt is also recorded and reasons if failed.
- User's workstation details who are not connected or operational. Also the administrator can keep a log of clients logged-in and logged-out, time/date and reason if disconnected. It is possible for the administrator to see a clear distinction between logged out status and disconnected so that you can take the necessary action.
- 3. Generate reports to analyze the above mentioned events at any given point of time.
- 4. Ability to see the actions taken by the user in the event of an alarm. i.e., if the user has handled the alarm, parked it, resolved it, or completed a specific process guidance step.
- 5. Ability to see the user actions with respect to a device. As an administrator you will be able to view the user actions on a particular device. i.e. if the user has controlled Pan, Tilt or Zoom, or had requested a preset position.
- 6. Generate reports of all users who created, modified or deleted a specific object.

## **Using Audit Viewer**

You can use the Audit Viewer to see your audit events. The Audit Viewer enables you to see audit events for a time period that you specify. This is useful because it helps you to answer questions such as:

- Was there a recent change to my Control Center configuration that is related to an issue I'm currently facing?
- Who was logged in yesterday?
- When was an update published to a specific site?



To access the Audit Viewer, you can either:

- Go to System Configuration > Entire Organization > My organization > Computers and double-click the Audit Service. The Audit Viewer displays.
- Add the Audit Viewer control to a GUI and configure a display area for the GUI. See <u>Graphical User Interfaces</u>.

When you first open the Audit Viewer, the **From Date** and **To Date** are set automatically to display events that have occurred one hour before the current date and time.

Name	Description				
Time	The time the audit event occurred in the format <i>hh:mm:ss</i> AM or <i>hh:mm:ss</i> PM.				
Event Type	The type of audit event. For example, ObjectAuditEvents are events raised on objects, like New Response Plan. SessionAuditEvents are events raised on a session, like LogIn and LogOut and AlarmAuditEvent are events raised on alarms and so on.				
Operation	The operation performed on the event. For example, Created, Updated, Removed, Start, Stop and so on.				
User	The username of the user who initiated the event.				
Client	The name of the Control Center client where the event was raised.				
First Object	The name of the object where the event occurred. This could be a username, for a SessionAuditEvent, the name of a device, like Door 1, for an AlarmAuditEvent or a Control Center server name for a ServiceAuditEvent.				
Second Object	The name of an object referenced by a first object. For example, when a call is raised on an Intercom device, the first object is the name of the Control Center client that initiated the call and the second object is the Intercom device that received the call.				

The table below describes the information you can see in Audit Viewer.

#### Filtering in Audit Viewer

You can filter the events in your Audit Viewer. For example, you may want to find out the name of an operator that handled a door forced alarm on Door 2 during a specific period of time.

- 1. To define the time period when the events you want to view occurred, you can either:
  - select next to **From Date:** and **To Date:** and select the date and time from the date and time picker.



• Alternatively, you can select  $\checkmark$  to display the **Filter** dialog. You can either select a specific date and time or a period of time. In this example, we know approximately when our operator resolved the alarm so we can define the time period as follows:

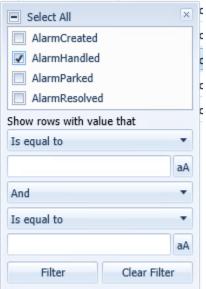
Select All	×
6/24/2020 3:55:37 PM	
6/24/2020 3:56:54 PM	
6/24/2020 3:57:00 PM	
6/24/2020 3:57:05 PM	
6/24/2020 3:57:09 PM	
6/24/2020 3:59:37 PM	
6/24/2020 4:00:31 PM	
6/25/2020 9:50:22 AM	
6/25/2020 10:27:54 AM	_
6/25/2020 10:28:34 AM	
6/25/2020 10:35:08 AM	
6/25/2020 10:35:12 AM	-
Show rows with value that	
Is greater than	•
6/24/2020	⊞
And	•
Is less than	•
6/26/2020	▦
Filter Clear Filt	er

In our example, the type of event we want to view is an AlarmAuditEvent, so we select
 next to Event Type and select AlarmAuditEvent from the Filter dialog.



Select All
✓ AlarmAuditEvent
ObjectAuditEvent
SessionAuditEvent
Show rows with value that
Is equal to 🔹
aA
And 🔻
Is equal to 🔻
aA
Filter Clear Filter

3. To filter on an operation, we select  $\checkmark$  next to **Operation** and select AlarmHandled from the **Filter** dialog.



- 4. We can ignore **Username** for now, because we do not know the username we are looking for.
- 5. Next, we select T next to Client, and specify the client that raised the AlarmHandled event.



✓ Select All	×
P-Win10-3.dev.cnluk.com	
Show rows with value that	
Is equal to	•
	aA
And	•
Is equal to	•
	aA
Filter Clear Filt	ter

6. Next, we select rext to **First Object**, to specify Door Forced on Door 2 that the alarm handled event was raised on.

<ul> <li>Select All</li> </ul>	×
Door Forced Alarm on Door 2	
Door Forced Alarm on Door 3	
Door Forced Alarm on Door 4	
Show rows with value that	
Is equal to	•
ā	A
And	•
Is equal to	•
ā	A
Filter Clear Filter	

The Audit Viewer displays the events according to our filter criteria, identifying TestUser1 as the user who handled two Door Forced alarms on Door 2, in the time period specified.

Time       Vert       Vert       Vert       Vert       Vert       Vert       First Object         6/25/2020 12:20:48 PM       AlarmAuditEvent       AlarmHandled       TestUser1       P-Win10-3.dev.cnl       Door Forced Alarm on Door	From Date:	e: 6/25/2020 11	:22	AM	▦	To Date:	6/25/20	20 12:	22 PM	1		Refres	h				
6/25/2020 12:20:48 PM AlarmAuditEvent AlarmHandled TestUser1 P-Win10-3.dev.cnl Door Forced Alarm on Door	Time		7	Event Typ	pe	7	Operati	on	7	User		V	Clier	nt 🏹	First Object		T
	6/25/2020 1	0 12:20:48 PM		AlarmAud	litE	vent	AlarmH	andled		TestU	ser1		P-W	in10-3.dev.cn	Door Forced Ala	rm on Doo	or 2
6/25/2020 12:20:46 PM AlarmAuditEvent AlarmHandled TestUser1 P-Win10-3.dev.cnl Door Forced Alarm on Door	6/25/2020 1	0 12:20:46 PM		AlarmAud	litE	vent	AlarmH	andled		TestU	ser1		P-W	in10-3.dev.cn	Door Forced Ala	rm on Doo	or 2

7. Select an entry in the Audit Viewer table to display the details of the event.

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Details		×
	armAuditEvent 5/2020 12:20:48 PM	
Ope	ration	
Alar	rmHandled	
User	r	
Tes	tUser1	
Clier	nt	
P-W	/in10-3.dev.cnluk.com	
Add	ress	
P-S	R19-SQL19-1.dev.cnluk.com	
First	Object	
Doo	or Forced Alarm on Door 2	

- 8. To clear the filters, select  $\checkmark$  and select **Clear Filter** in all the **Filter** dialogs where you have configured a filter.
- 9. Select **Refresh** to refresh the Audit Viewer.



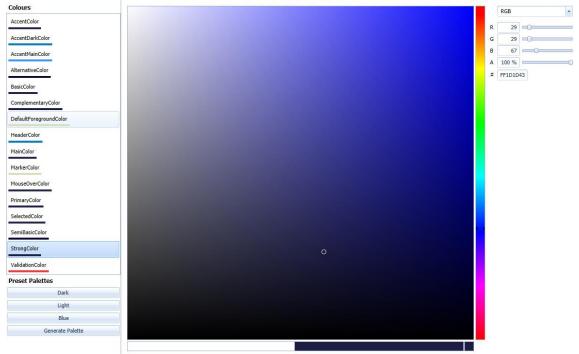
## Modern Client Default Theme

Every install of Control Center comes packaged with a Modern Client Default theme in the System Objects module. You can select from one of the predefined themes or customize your own theme color of the Client interface to have your own preferred color, which is black by default. Every Theme has a list of color properties in the Colors palette that can be customized to represent an aspect of the User Interface in Control Center.

Additionally, the Client Themes can be published to all the federating sites.

## Configuring a Customized Client Theme in Modern Client

 From System Objects, select the default Modern Client theme object or to customize your own theme, click New> Modern Client Theme. The Client Theme palette page appears.



- 2. To set your own color for one or any of the elements on the User Interface, select the option on the left and click on the required color or drag the **Color Picker** on the right until your preferred color is appears.
- 3. To apply changes to a specific element of the User Interface, select from one of the below properties:
  - AccentColor Main color for the theme in Control Center.
  - AccentDarkColor Darker accent color for the theme.
  - AccentMainColor Affects the color of the hyperlink displayed within System Explorer, for example, the View contacts for this Location.
  - AlternativeColor Changes color of the primary background. Also used as background of Popups and Dropdowns.
  - BasicColor Border color of controls in their normal state.

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- ComplementaryColor Color for elements in disabled state.
- $\circ \quad {\sf Default foreground Color-Foreground \ color}$
- HeaderColor Color used for background of headers.
- MainColor Used as the background for all the main controls.
- MarkerColor Thecolor for the text elements that appear on the theme.
- MouseOverColor Background of elements that are in MouseOver/Hover state.
- PrimaryColor Primary color for most controls that have no direct input in their normal state.
- SelectedColor The main color for text or paths which are over elements with accent background.
- SemiBasicColor The color of the selected or Hover-over states.
- StrongColor Text that is in bold when active, for example, Alarm Stack header.
- ValidationColor Used for validation where it is applicable to controls.
- 4. Alternatively, you can specify the RGB (Red Green Blue) value, if you already know the values for a color property.
- 5. To set the main theme for the Client to your preferred color, specify a color property or choose it via the **Color Picker**. The color changes reflect almost instantly, however, to have the changes applied permanently, you must modify the **User** object and specify a **Theme** that has the changes.
- 6. To specify the theme with the changes, select the **User Object** and then from **Properties**> **Theme**, select the theme.
- 7. Alternatively, the following color variations are available as part of the **Preset Palettes**:
  - Dark Sets the theme to black.
  - Light Sets the theme to white.
  - Blue Retains the theme to white but changes the selection of AccentMainColor to blue theme.
- 8. Click **Save** and then restart the Client. The changes applied to the theme are applied to the Client theme.

## Using the Theme Picker and Template Picker

Custom theme created and saved using the Modern Client Theme object can be used in the Main Menu by picking the theme from the Theme Picker. The user can launch the theme picker from the Main Menu GUI bound by a client action to a button displayed on the Main Screen. To configure a button to do this, you need to:

- 1. Go to System configuration > System Objects.
- 2. From the Graphical User Interface, double click on the Main Menu GUI.
- 3. From the property window on the right, click on **Custom Menu** items to open the **Ribbon Editor** window.



			Appearance	
ibbon Editor			×	
E		Appearance		
😑 🗁 Home		con Name	nav_plain_gray	
😑 🗂 New Group		con Size	Large	
Theme Picker		mage Position	Left	
- Template Picker	O	Drientation	Horizontal	
	To	ool Tip Description		
	To	oolTip Title		
	Vi	lisible	True	
	🗸 В	Basic Settings		
	D	Description		
	N	lame	Button 1	
	<b>∨</b> B	Behaviour		
	A	uto Expand On Click	True	
	CI	lient Action		
	H	lotKey		
		•		
		Name Determines the name used when referencing this item in Response Plans and other controls on the GUI.		

- 4. Right click on the **New Group** option and select **Add Button**.
- 5. In the **Appearance** section on the right window, choose an icon from the icon picker.
- 6. In the Behavior section
  - Set the Auto Expand On Click to true.
  - Select **Theme Picker** for **Client Action** property.

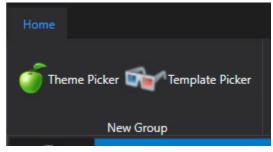
Note: You can also set hotkeys in the hotkeys properties.

- 7. Click **OK** to save the settings.
- 8. Restart the client.

You could follow the same steps to create a button for the template picker as well. In the Client Action property choose the Template Picker instead.

For the Template Picker window to popup on selection, you must have at least two templates saved. When a new client is connected to the system, the template picker will be displayed to the user with the options to choose from. If there is only one template the default will be applied automatically.

The Main Screen will now look like this:

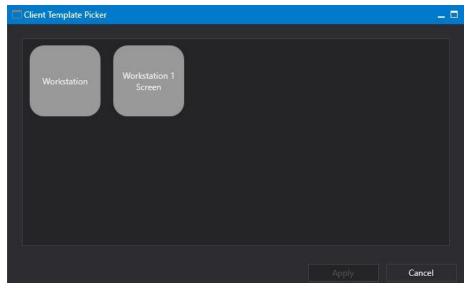


On clicking on the Theme Picker button, the Theme Picker Window will be displayed with the choices of the themes available.



Client Theme Picker for user 'Administrator'		_ =
Modern Client Default Theme Pink		
	Apply	Cancel

On clicking on the Template Picker Button. The Template Picker window will be displayed with the choices of template available.



The user can choose the option and click on apply to save changes. Restart the client to see the applied changes.



## **Keyboard Shortcuts for Windows Client**

The HotKeys Mappings functionality enables you to configure Keyboard Shortcuts to use in Control Center. For example, you can add new mappings, delete existing mapping, and modify existing mappings. Additionally, you can assign a set of Hot Key mappings to one or more Control Center Clients, allowing Clients to share mappings or use mappings specific to each Client. If no specific mapping of hot keys is configured for a Client, then the system hot key mappings will be applied.

Before modifying Hotkey Mappings, Everbridge recommends that you identify the Windows Shortcut Keys configured on your computer to avoid assigning the same key combination in Control Center.

Keyboard Shortcut Context		Action	
Windows+PageUp	From anywhere within the Windows Client	Opens the System Configuration window	
Windows+PageDown	From anywhere within the Windows Client	Opens the Setup Display window	
Windows+End	From anywhere within the Windows Client	Shows the confirmation dialog to exit.	
Windows+Home	From anywhere within the Windows Client	Locks the system you are working on	
Windows+A	From anywhere within the Windows Client	Opens the Admin Interface	

By default, the following System Hot Key Mappings are available.

## Configuring Mapping of System Hot Key Mappings

To modify mapping of the system shortcut keys:

- 1. Open System Configuration > System Objects. The System Objects pane appears.
- 2. Double-click **System HotKey**s to open the system default mappings for shortcut keys.
- 3. In the **Hot Key l**ist, choose thehot key that you want to assign, for example, o (zero) and then select a key modifier such as **Shift** from the **Key Modifier** list.
- 4. In the **Operation** list, select the operation that you want to use the key combination with, for example, **LockSystem**.
- 5. Restart the Control Center Client.
- 6. Use the shortcut key mappings that you just configured: o + Shift. The shortcut key's configured function should take into effect, in this case, the System should get locked now.

To add a new mapping:



- 1. In the System HotKey Mappings dialog, click Add Mapping.
- 2. A new set of drop-down boxes to select key combinations from are added to the page.
- 3. Select the required combination of hot keys using the available drop-downs to assign the shortcut mapping. For more information, see how to modify the existing mapping of system shortcut keys in the previous section.
- 4. Save the changes.

#### Notes:

- To delete an existing mapping, select the row of mapping that you want to delete, and click Delete Mapping.
- You MUST restart any Control Center Client which is using the selected set of Hot Key Mappings for the changes to take into effect.

Use from the following list of available keys along with the key modifier to assign shortcut key mapping:

Hot Key selection/ Windows keyboard keys	Key Modifier	
<ul> <li>Alt+None</li> <li>Back</li> <li>Cancel</li> <li>Clear</li> <li>Ctrl+Alt+Shift+None</li> <li>Ctrl+None</li> <li>Del</li> <li>Down</li> <li>End</li> <li>Enter</li> <li>Escape</li> <li>Execute</li> <li>F1</li> <li>F2</li> <li>F3</li> <li>F4</li> <li>F5</li> <li>F6</li> <li>F7</li> <li>F8</li> </ul>	<ul> <li>F9</li> <li>F10</li> <li>F11</li> <li>F12</li> <li>Help</li> <li>Home</li> <li>Ins</li> <li>Left</li> <li>None</li> <li>PgDn</li> <li>PgUp</li> <li>Print</li> <li>Right</li> <li>Scroll Lock</li> <li>Select</li> <li>ShiftKey</li> <li>Shift+None</li> <li>Space</li> <li>Tab</li> <li>Up</li> </ul>	Alt Control None Shift Windows

**Note**: None indicates that no shortcut key is associated with the selected menu item.

#### Control Center modules that use shortcut keys

Currently, the following modules use shortcut keys.



Operation	Use to	
AdminInterface	Open the Admin Interface	
LockSystem	Lock the application	
Logout	Logs off the User	
QuickSearchEntry	Displays a Search box for entering a search value when the System Explorer is open	
SetupDisplay	Open the Display Configuration dialog	
SystemConfiguration	Open the System Configuration dialog	
ToggleSystemExplorer	Switch the System Explorer tree on and off	

#### Tile Layout / Video specific commands

These hot keys will only apply if you have a tile selected for displaying video.

Hot Key selection	Use to
ToggleFullScreen	Switch between fullscreen mode and normal mode for a selected tile
TogglePlaybackAndLive	Switch between playback and live for a selected tile
TogglePlayPause	Switch between Play and Pause for a selected tile (only applicable if the video is in playback mode)

#### **Client Actions**

You can link hotkeys to menu buttons on the main menu while commissioning. You can assign shortcut keys to the following Client Actions:

- Client Template Picker
- User Theme Picker

#### Alarm Handling

The Administrator has the ability to configure hotkeys for various tasks to handle alarms. The various operations available for alarm handling are as listed below.

Hot Key selection Use to	
Handle Alarm	This will execute the same logic as when the user clicks the Unhandled link in the alarm stack. Any Response Plan associated with the Alarm Handled action will be executed and tasks defined within the



	Response Plan, such as navigate to location and displaying CCTV, will be processed in the same way.
ProcessGuidanceConfirm	This will execute the Confirm action in the current process guidance step
ProcessGuidanceNo	This will execute the No action in the current process guidance step
ProcessGuidanceYes	This will execute the Yes action in the current process guidance step
ProcessGuidancePark	This will execute the Park action in the current process guidance step

## Adding a New Hot Key Object

In addition to the System Hot Keys Mapping object, you can also add your own customized set of hot keys.

To add a new hot keys object:

- In System Configuration, right-click anywhere in the middle pane, for example the Devices folder and select New> Hot Key Mappings. A new Hot Key Mappings object appears in the list of objects.
- 2. Specify a name for the new Hot Key Mapping and press Enter.
- 3. Double-click the new **Hot Key Mappings** object to open it. The new **Hot Key Mappings** appear in the **Design Surface**.
- 4. Create new mappings using the **Add Mapping** button.

## Assigning Hot Key Mappings to the Client

By default, the **Hot Key Mapping** for the Control Center client is left blank, in which case the **System Hot Key Mapping** will apply. You can choose to assign the newly created **Hot Keys Mapping** object or the default System Hot Keys mapping depending on your requirement.

To assign the hot key mapping to a client:

- 1. Open System Configuration > Computers.
- 2. Select the Windows Client that you would like to assign the hot key mappings to.
- 3. In the **Properties** pane, click the **Hot Keys Mapping** button. In the **Search Objects** dialog, the hot keys object appears.
- 4. Locate the hot keys mapping object, for example, System Hot Keys, and click OK.
- 5. The selected hot keys mapping is assigned to the chosen client. You can assign a different set of hot key mappings for each client in the same way as long as they are connected to the same server.

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**Note**: When assigning a different set of hot key mappings to a client, make sure to restart the client for the changes to take effect.



## **About Administrator Interface**

The Administrator Interface allows for simple administration of system components, that are available in System Configuration but not accessible to an end user. For example, you can access user management, device status, location management and so on from the Administrator Interface.

Admin Interface		
Administrato	or Interface	×
Click the category you require	Users User Groups Contacts Contact Groups Locations Devices Servers Health Check Windows Clients Connection Managers	
	Remote Servers Summary	¢
		6

### Accessing Administrator Interface

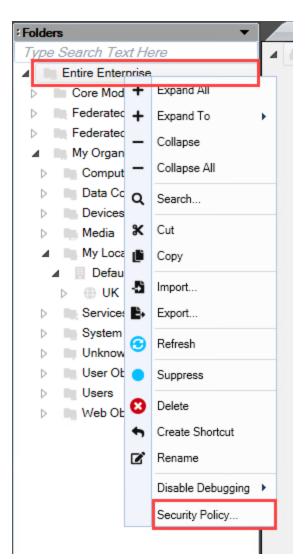
You must add the user accounts to the appropriate security policy for the new users to access the Administrator Interface. By default, the Administrator user account (root) and all members of the Administrators Group have access to the Administrator Interface.

To grant a new user access to the Administrator Interface:

1. From **System Configuration**, right-click on the **Entire Enterprise** folder and select **Security Policy**. The Security Policy Editor opens.

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2. Expand **Security Policies** > **User Policies**. All security policies are displayed on the right.

Overview - Entire Enterprise	Security Policies (Entire Enterprise)		
Security Policy Types	Policy T	Security Setting	Defined for this Folder $ abla$
Client Policy Types	T Access to Admin Interface	Administrator, Administrators	False
Luser Policy Types	T Access to Response Plan Designer	Administrator, Administrators, Response Plan Designers	False
	T Access to Setup Display window	Administrator, Administrators	False
	T Access to System Configuration	Administrator, Administrators	False
	T Access to the Map Note Editor	Administrator, Administrators, Users	False
	T Account Expiration Notification	Disabled	False
	T Add Clients	Administrator, Administrators, Account Administrators	False
	T Allow Alarm Handling Takeover	No Security Principals Defined	False
	T Allow Bulk Resolution of Alarms	Administrator, Administrators, Users	False

3. Double-click the Access to Admin Interface policy to provide access to the user. The Access to Admin Interface Properties dialog appears.

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Access to Admin Interface Properties
Specifies which users and groups have access to the Admin Interface
Define policy
Policies     Users and Groups     2 security principals selected
Users and Groups Specifies users and groups applicable for this policy
OK Cancel

- 4. Select the **Define policy** check box and then click the ... button to select the users. A Collection Editor appears.
- 5. Click Add. The Search Objects dialog appears.
- 6. In the **Search Objects** dialog, search for the users that should be granted access to the Administrator Interface.
  - a. In the Label field, type the username and click Find Now
  - b. Select the user from the list of search results that is displayed.
  - c. Click **OK**.
- 7. Click **OK** to confirm that the new user has been added to the list of accounts allowed to access Admin Interface. Then click **OK** to close the **Access to Admin Interface Properties** window. The new user now has access to the Admin Interface.

**Note**: If the user is logged in while the change is made, then they must log out and log back in for the change to take effect.

#### **Users and Users Groups**

The **User Groups** screen provides the ability to create user groups and users. You can add users or remove them from a user group, which provides a way to control what access each user has. You cannot edit security permissions from the Admin Interface.



To create a new user group:

- 1. From Admin Interface, select **User Groups**. The **Administrator Interface \ User Groups** dialog appears.
- 2. Click Add.
- 3. Enter the name of the user group and optionally a description.

Admin Interface	
Administrato	r Interface \ User Groups \ Add
Select a location and press 'Ok'	Type Search Text Here         My Organisation         Computers         Data Connections         Devices         Media         My Locations         Services         My Updations         System Objects         Unknown Location         User Objects         Users         Web Objects

4. Select the location where the user group should be stored, typically the folder called Users and then click **OK**.

#### Additional Operations in User Group

You can perform the following additional operations with users and user groups:

- Add Create users and user groups.
- Edit Edit existing users and user groups.
- **Delete** Delete user groups or users.
- Enable Enable disabled users.
- **Disable** Disable enabled users.
- **Membership** Configure membership for user groups.
- Wizard Creates user groups using the wizard (not applicable to Users).
- Status Displays the online status of the existing user groups.
- **Reset Password** Used for resetting passwords. This option is available to Users only.
- Reset Lockout Used for resetting a locked-out user. This option is available to Users only.

#### **Creating Users**

You can create users in both Admin Interface and System Configuration. To create a user:

- 1. From the Admin Interface, select **Users** and then click **Add**.
- 2. Enter the details for the user account and click **OK**.

**Note**: The password must adhere to the site password policy.

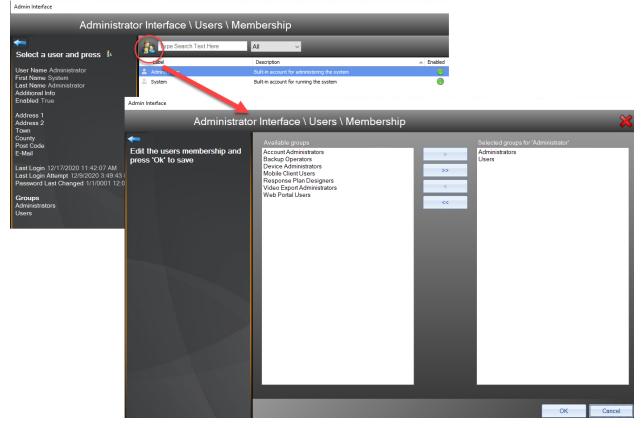


## **User Group Memberships**

By default, all newly created user accounts are members of the default user group called **Users**. You can set up security permissions at the Group level in System Configuration and manage user permissions in the Admin Interface by moving users into the appropriate groups.

To modify user group memberships:

- 1. Select the **Membership** option on the **Users** page.
- 2. Highlight the user in the list of users and double-click to open the membership page.



3. Select the groups that the user should be a member of and click **OK**.

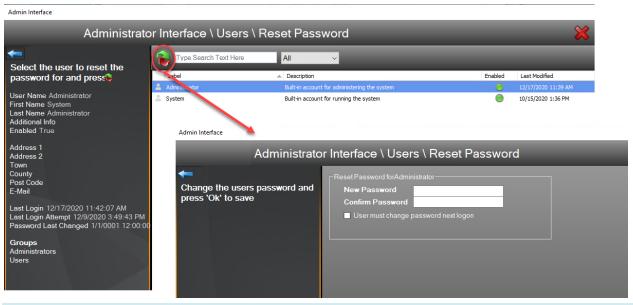
## **Managing an Account**

Once an account has been setup in for you in Control Center, you can maintain it from the Admin Interface to perform common tasks such as resetting the user's password and resetting a locked-out user. Typically, you get locked out if you entered an invalid password several times.

#### **Resetting a Password**

The **Users** section of the Admin Interface provides an option to **Reset Password**. Select the specific user in the list of users and then click the **Reset** button in the top-left corner. Enter a new password for the user.

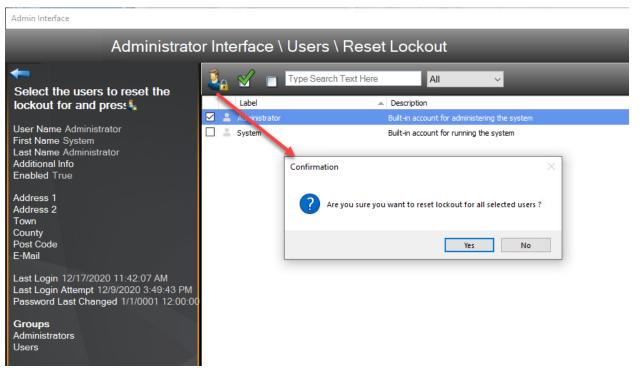
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Note: The new password must comply with the site password policy.

#### Resetting a locked-out user

To reset a locked-out user, select the specific user in the list of users and then click the **Reset** button on the toolbar menu.





## **Contacts and Contact Groups**

Contacts and contact groups enable you to add a contact that has similar fields to a User but without the ability to log in to Control Center. You can store contacts in a Control Center solution to provide details of who to contact in various situations. You store contacts under a location to enable you to quickly access them when required. In addition, you can store various details against each contact.

To create a new contact group:

- 1. From the Admin Interface, select **Contact Groups**. The **Administrator Interface \ Contact Groups** dialog appears.
- 2. Click Add. The Add dialog appears.
- 3. Enter the name of the contact group.
- 4. Select the location where the contact should be stored, typically the folder called **Contacts** and click **OK**.

#### Additional operations in Contact Groups

You can perform the following additional operations with Contacts and Contact Groups:

- Add Create contacts and contact groups
- Edit Edit existing contact and contact groups
- **Delete** Delete contact groups
- Enable Enable disabled contact groups
- **Disable** Disable enabled contacts
- **Membership** Configure membership for contact groups.
- Status Displays the status of the existing contact groups.

#### Adding Contacts

To create a contact:

- 1. From the Admin Interface, select **Contacts** and then click **Add**.
- 2. Enter the details of the new Contact. Label, First Name, Last Name and Location are required fields.
- 3. Click **OK** and then click **Save** when prompted. The newly added contact should visible when clicking **View Contacts for Location** in System Explorer.

#### Contact Group Memberships

Contacts cannot log into Control Center on their own. They are mainly there to be notified in the event of an issue. For example, a contact might be a member of the management group, belong to a certain building group, such as the fire wardens' group. By default, a new contact is a member of the default contact group.

To modify contact group memberships:

- 1. Select the **Membership** option on the **Contact Groups** page.
- 2. Highlight the contact in the list of contacts and double-click to open the membership page.



Admin Interface Administrato	r Interface ∖ Contact Group	s \ Membership	_	*
Celect a contact group and press Label Building A Supervisors Description Represents a group of Contact Enabled True Total Members 0	Building A mervisors Rep Admin Interface	scription resents a group of Contacts. or Interface \ Contact Groups \ Me	Enabled Last Modified 12/23/2020 2 mbership	
Members	Edit the contact groups membership and press 'Ok' to save	Available contacts / contact groups Supervisor	> > < <	Selected contacts / contact groups for 'Building A Supervisor

3. Select the contact groups that the contact should be a member of and click **OK**. The remaining options are the same as Users and User Groups.

### **Managing Locations**

Use locations to create or edit locations, sub locations and plot devices in Control Center. A tree control is displayed when you log in to the Control Center Client for the first time allowing you to select an individual location from the location hierarchy. Typically, you have a single top-level location and then several locations below that.

#### **Editing Locations**

You can assign schematic or geographic scenes when creating or editing a location.

To add or edit a location:

- 1. From the Admin Interface, select Locations. The Locations page appears.
- 2. Click Edit Locations. The Edit Locations page appears.
- 3. Expand the **My Locations** tree and perform any one of the following options:
  - To add a location, select the parent location in the tree and click **Add**.
  - To edit a location, select the location in the tree and edit the details.
  - To move a location, select the location in the tree and use the drag and drop operation to move it to the target location.

**Tip**: Use the built-in Search functionality to quickly find a required location. The search results automatically update with each new character entered.

4. When you click **Add**, a new location is created in the Locations tree below the selected folder\location and the Location fields become active.

Address1, 2 & 3	The first, second, and third line of the address.
Town	The town of the location.

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County	The county of the location.	
Postcode	The postcode of the selected location.	
County	The county of the selected location.	
Considerations	Additional considerations, if any.	
Phone number	The Phone number of the location, if applicable.	
Location Type	The Location Type of the selected location. For example, Country, Region, Site, Building, Floor, Room, Zone and Customer.	
Default Scene	Select the button to associate scene with this location.	

**Note**: Deleting a location is not possible from the Admin Interface. Therefore, to delete a location, you must delete it from System Configuration.

You can also optionally create a geographic or a schematic scene for that location by selecting the appropriate option from the Location Default Scene dialog.

5. Click **Save** to save the changes.

#### **Plotting devices**

Once you have defined a location and assigned a scene, you can plot devices into each of the scenes as required.

To plot devices:

- 1. From the Admin Interface, select Locations. The Locations page appears.
- 2. Click **Plot Devices**. The Plot Devices page appears.
- 3. Select a location and then wait for the scene to appear.
- 4. Drag and drop the device that you want to plot on the selected scene.
- 5. Select the device and view the Properties grid to edit the appearance and viewshed properties in case the device is a camera.

By default, the following properties are displayed when you select a scene, however some of the options are different depending on the type of scene selected, for example Background Type:

Appearance		
Alarm Stack View option	Select from the following options to determine how the alarms are plotted on the map from the Alarm Stack view:	
	<ul> <li>None – No alarms appear plotted on the map.</li> <li>All – Alarms that are visible on at least one of the user's visible alarm stacks.</li> </ul>	



• CurrentView – Only alarms that are visible in the currently selected Alarm Stack View are displayed.         Background Type (only for Schematic Scenes)       Click the background type for a schematic scene. The options ava are: <ul> <li>Media – Select a media object that is already available wit the system.</li> <li>NetworkShare – Select a media from your network folder clicking the button that appears next to the field.</li> </ul> GIS Layers       Select the layer from the System Layers list.	ilable hin by		
are:       are:         Background Type (only for Schematic Scenes)       Media – Select a media object that is already available wit the system.         NetworkShare – Select a media from your network folder clicking the button that appears next to the field.         GIS Layers       Select the layer from the System Layers list.	hin by		
GIS Lavers Note: You must first assign a GIS layer in the GIS Layer Manager f	rom		
	rom		
down.			
Layers Click the Layers option to edit the layers for a scene.	Click the Layers option to edit the layers for a scene.		
<b>Lock Extents</b> Select True to lock the extents of the map thereby preventing use from panning or zooming, for example.	Select True to lock the extents of the map thereby preventing users from panning or zooming, for example.		
	selected in the System Explorer and that location is plotted on the currently displayed scene. This option is particularly useful where		
Where a scene has many devices plotted, it is useful to allow the uto search for a plotted object. To enable the Scene Search Mode:         Scene Search Mode         • Set search mode to AssetOnly. A small search box will app at the top of the scene which allows a user to find a plotted object.         Note: Geocoded searches are not supported in Control Center	ear		
<b>Zoom to location on</b> <b>Select</b> true or false to determine if the map zooms to a location zo level if it selected in the System Explorer and that location is plott on the currently displayed scene.			
<b>Zoom to Max Extent</b> Zooms the map to the full extent of the data on load.			



The following properties are available when you select a device:

Appearance			
Base Object Label	Default label of the object.		
Custom Icon	Vhen the Use Custom Icon is set to true, you can set the custom icon in he Icon Picker dialog. For more information about setting custom icons.		
Device Type	<ul> <li>Select the type of device. The options are:</li> <li>Camera</li> <li>Door</li> <li>Reader</li> <li>Firehead</li> <li>Temperature</li> <li>Pressure</li> <li>Location</li> <li>Other</li> </ul>		
Has Viewshed	Select true to enable viewshed for the selected device.		
Hide Icon	Select true to hide the icon from the map. This setting overrides all other visibility settings.		
lcon Size	Select the size of the icon. The options are: Small, Medium, Large.		
Icon Visibility	<ul> <li>Determines the icon visibility on the map. Specify when the icon should be visible based on the following options:</li> <li>Always – Always visible.</li> <li>Hover – Visible only when you hover the icon.</li> <li>Alert – Visible during an alert.</li> <li>Never – Invisible.</li> </ul>		
Rotation	Specify whether to rotate the icon on the map by dragging the slider.		
Use Custom Icon	Select True or False to use a custom icon instead of the default icon.		
Visible Objects Search Radius	Specify the radius of the search used for visible object mapping. The Visible Object Mapping is mainly set for a PTZ device.		
Text Appearance			
Font Color	The font color on the label.		



Font Opacity	The opacity of the label, where o is transparent and 1 is opaque.	
. ,	The font size on the label.	
Horizontal Alignment	The horizontal alignment of the label, for example: <ul> <li>Center</li> <li>Left</li> <li>Right</li> </ul>	
LADELHAIO COLOR	The color of the halo on the label. A halo is an expanded region around the text that can make the text stand out more.	
l ahal Halo Width	The width of the label halo that controls how much of a halo surrounds the text.	
	Applies a horizontal shift to the label position. Positive values shift the label to the right and negative values shift the label to the left.	
	Applies a vertical shift to the label position. Positive values shift the label lown, negative values shift the label up.	
Label Visibility	The behavior of the label visibility on the map.	
Leader Line Color	The color of the leader line and its box. Only visible if the Show Leader Box field is set to true.	
Show Leader Box	Displays a box around the label when set to true. This makes the label stand out more.	
Show Leader Line	Displays a line that joins the label to the asset when set to true. To view the leader line properly, ensure that the label is positioned away from the asset using the offset properties.	
Vertical Alignment	The vertical alignment of the label: • Top • Center • Bottom	
Width Label before text wraps	Define the Width of the label, which allows the label text to be wrapped.	
Viewshed Appearan	ice	



Bearing	Set the direction at which the viewshed is pointing in degrees from north using the slider.	
Distance	et the distance of the camera viewshed in meters for geographic scenes, nd pixels for schematic scenes.	
Opacity	Set the opacity of the viewshed, where o is transparent and 1 is opaque.	
Search Mode	he search mode that is used for Visible Object mapping. The available nodes are Viewshed and Radius.	
View Angle	The width of view either side of center in degrees.	
Viewshed Color	Set the color of the viewshed.	
Visibility	Visibility style of the viewshed. For example, Always, Hover, Alert, Never.	
Visible Zoom	The zoom setting at which the viewshed becomes visible.	

- 6. Click **Apply** to save the changes.
- 7. Click **Close** to close the Admin interface.

#### **Managing Devices**

Use the Devices option to manage devices, for example to enable and disable devices, view the status of the device, and set an existing device against a new location.

To enable/ disable a device:

- 1. From the Admin Interface, select **Devices**. The **Devices** page appears.
- 2. Click **Enable**. The **Devices Enable** page appears listing the devices in the system based on the filter options.

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Admin Interface Administrator Interface \ Devices \ Enable					
Mark the devices you wish to be	◯ 🖌 🗖	Type Search Text Here Disabled v /	Ali 🗸 🏣		
enabled and press	Label	<ul> <li>Description</li> </ul>	Enabled	Last Modified	Online Status
	🔲 📙 CNL-Door-05	CNL Demo Simulator Door		10/15/2020 4:45 PM	Offline
Total Devices 22 Total Devices Online 11	CNL-Door-06	CNL Demo Simulator Door	-	10/15/2020 4:45 PM	Offline
Percentage Online 50%	CNL-Door-07	CNL Demo Simulator Door	-	10/15/2020 4:45 PM	Offline
Label CNL-Door-05	CNL-Door-08	CNL Demo Simulator Door	-	10/15/2020 4:45 PM	Offline
Description CNL Demo Simulator Door	CNL-Door-09	CNL Demo Simulator Door		10/15/2020 4:45 PM	Offline
P Address	CNL-Door-10	CNL Demo Simulator Door CNL Demo Simulator Fence	-	10/15/2020 4:45 PM 10/15/2020 4:45 PM	Offline
Port Number 0 Enabled False Online State Offline Location Devices Path My Organisation\Devices\ Online State History Custom: 12/17/2020 11:37:09 AM			· ·		
Custom: 12/11/2020 10:16:47 AM Custom: 12/9/2020 3:37:27 PM					
Custom: 11/6/2020 12:54:14 PM					
Custom: 10/21/2020 3:41:23 PM					
Custom: 10/16/2020 12:43:04 PM					
Custom: 10/16/2020 10:34:05 AM					

- 3. Specify one or all the filter options:
  - **Green/Gray circle (enable icon)** Select devices that you want to be enabled and click the circle. Note that enable icon turns green only after you select a device.
  - Green checkmark box Select to mark all devices on the page.
  - o Blank check box Clears the selection, that is unmarks all the selected items.
  - **Text field** Type a text to filter quickly. For example, typing CCTV will only display devices that have CCTV in their name.
  - **First drop-down** Select the state of the device:
    - All Displays all the devices in the system.
    - Enabled Displays only enabled devices in the system.
    - **Disabled** Displays only disabled devices in the system.
  - Second drop-down Select the status of the devices:
    - All Displays all the devices regardless of their status.
    - Online Displays only devices that are online in the system.
    - Offline Displays only devices that are offline in the system.
    - **Pending** Displays devices with pending status in the system.
    - Failed Displays all failed devices in the system.
    - PDF icon Click on the icon to generate a report of the device status for all current monitored devices.
- 4. Repeat the above steps to disable devices, except that instead of a green circle the disabling icon will be indicated in red.



To view the status of devices:

- 1. From the Admin Interface, select **Devices**. The **Devices** page appears displaying the status of the clients configured with your Control Center Server.
- 2. Select from the options available to customize the status view:
  - **Text field** Type a text to filter quickly. For example, typing CCTV will only display devices that have CCTV in their name.
  - **State drop-down** Select the state of the device:
    - **All** Displays all the devices in the system.
    - Enabled Displays only enabled devices in the system.
    - **Disabled** Displays only disabled devices in the system.
- 3. The following information appears depending on the options selected above:
  - **Label** The client computer label that relates to the server.
  - **Description** Description of the client computer with the IP address.
  - **Enabled** The state of the client computer whether enabled or disabled. Enabled state is indicated by a green circle and disabled state is indicated by a red circle.
  - **Last Modified** Last modified date and time.
  - **Online Status** The online status of the client.
- 4. To set a location, see Editing locations.

### **Managing Servers**

Use the Servers option to view the status of servers. The following options are available:

- Label
- Description
- Enabled
- Last Modified

You can also filter by All, Enabled, and Disabled options.

## **Health Check**

Use the **Health Check** option to verify any health performance issues with the client or the database.

To perform a health check on the client:

- 1. From the Admin Interface, click **Health Check**. The **Health Check** page appears. You can select either:
  - Client Issues go to step 2.
  - Database Integrity go to <u>step 3</u>

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- 2. Select **Client Issues**. The **Client Issues** page appears displaying the client loading status along with the GUI plugin and drivers that have been loaded into your Control Center solution.
- 3. To run a health check on the database:
  - a. From the Admin Interface > Health Check option, click Database Integrity. The Database Integrity Checker appears.
  - b. Select the items that you want to run a check against by manually selecting every check box or use the options available. The following options are available:
    - Mark All Selects all the displayed items.
    - UnMark All Unchecks all the selected items.
    - **Export** Generates a health check report in csv format.
    - **Start** Starts the health check process.
    - Close Closes the Health Check dialog.
- 4. Click **Start** to run the health check. A progress bar appears displaying the status of the health check on the database items.

Admin Interface	
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Administrate	or Interface \ Health Check \ Data	abase Integrity	×
+	Check Name	t Status	
Database Integrity Checker Last Run Results Summary: 0 Errors 0 Warnings			
		Mark All UnMark All Export	Cancel Close

5. Click **Close** when the process is complete.



## **Windows Clients**

Use the Windows Clients option to view the clients that are connected to the Control Center Server. To view the status of Windows Clients:

1. From the Admin Interface, click **Windows Clients**.

Admin Interface					
Administrato	r Interface \ Windo	ws Clients \ Status			×
Windows Clients Status View	Type Search Text Here	All	_	_	
	Label	<ul> <li>Description</li> </ul>	Enabled	Last Modified	Online Status
Label Description Client Computer with the IP host IP Address Serial Number Enabled True	P-Win10-2.dev.cnluk.com	Client Computer with the IP hostname of P-WIN10-2.DEV.CNL	8	12/17/2020 11:47 AM	Online

- 2. Filter the items based on **Select All, Enabled, Disabled** options.
- 3. Use the **Search** text field to quickly find the required client from the list of clients displayed. The search results automatically update with each new character entered. This functionality is particularly useful if you are connected to several clients.



### **Connection Managers**

Use the Connection Managers option to monitor the status of Connection Managers and restart them.

Admin Interface

Administrato	or Interface \ Connection Managers
Click the option you require	3
Administrator Interface Users User Groups Contacts Contact Groups Locations Devices Servers V Health Check Windows Clients Connection Managers Remote Servers Summary	Restart Status

To restart the Connection Manager through the Administrator Interface:

- 1. From the Admin Interface, select Connection Managers.
- 2. Double-click on the Connection Manager that needs to be restarted.

To monitor status of Connection Managers through the Administrator Interface, select **Connection Managers** > **Status**.

The status of the Connection Managers is shown.

## **Configuring Secondary Authorization**

The Configuration Authorization functionality provides the ability to restrict access to Admin Interface and System Configuration in Control Center for specific users. You can configure the system to request a secondary sign-off for these users using the Security Policy settings.

When a request comes through, a notification is shown on the client with a hyperlink to open **Config Authorization** view in the Admin Interface. The **Config Authorization** dialog in the Admin Interface then displays all requests and status for access to System Configuration. A notification is sent to each client where an authorizer is logged in.

#### **Configuring Security Policies**

You can configure the following security policies:

• **Configuration Authorization Required** – Specify which users and groups are required to have their configuration changes authorized (Root user, Administrator and so on).

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• **Configuration Authorizers** – Specify which users and groups can authorize configuration changes (Root user, Administrator and so on).

The policy can be turned on or off and typically applies to all Control Center Clients connected to the server.

#### **Enabling Configuration Authorization Required Policy**

Once configured, this policy lists all the users that need authorizing of one of the following requests:

- Users that require secondary sign off
- Users that do not require secondary sign off

To set the Configuration Authorization Required policy:

- 1. From the System Configuration window, right-click on the **Users** folder and select **Security Policy**.
- 2. Expand **Security Policies** > **User Policies**. The available policies are displayed on the right.
- 3. Double-click the **Configuration Authorization Required** policy. The **Configuration Authorization Required** dialog appears.
- 4. Select the **Define Policy** check box and then click **Users** and Groups to add users and groups whose configuration changes need authorization from another user (for example, an Administrator).
- 5. Click OK. When a user attempts to launch System Configuration, a dialog box appears notifying that a request has been created for another user to grant them access.

**Note**: This setting will be only effective if there are multiple accounts configured as authorizers.

#### **Enabling Configuration Authorizers Security Policy**

Once configured, this policy lists all the users that can authorize one of the following requests:

- Users that require secondary sign off
- Users that do not require secondary sign off

To configure authorizers:

- 1. From System Configuration, access the **Security Policies** in the same way as the previous section.
- 2. Double-click the **Configuration Authorizers** policy. The **Configuration Authorizers Properties** dialog appears.
- 3. Select the **Define Policy** check box and then click **Users and Groups** to add users and groups that can authorize configuration changes (for example, an Administrator).
- 4. Click **OK**.



#### Authorizing requests

The users requiring access to the affected areas where permissions are changed will require a second authorized user to authorize the changes, such as a user with Administrative privileges. For example, you can restrict access to Admin Interface and \ or folders in the same location to specific users as detailed in the Security policy.

To view all requests for authorization:

- 1. Make changes to one of the following areas in the Admin Interface:
  - o **Users** tab
  - User Group tab
  - o **Contacts** tab
  - Contact Groups tab
  - o Locations tab
- 2. From the Admin Interface, add a new user. The **Configuration Authorization Request** dialog appears.
- 3. Select I Accept.
- 4. From the Admin Interface, click **Config Authorization**. The **Config Authorization\Status** dialog appears displaying the authorization requests.

**Tip**: You can also access the Config Authorization dialog in Admin Interface by clicking on the status bar at the bottom of the main display area.

To approve or reject configuration authorization requests:

- 1. Open the Admin Interface and click **Config Authorization**. The **Config Authorization**. The **Config Authorization**.
- 2. Any changes that need approval or rejection and the existing declined/approved requests will appear here. However, only the requests awaiting approval or rejection will have the check box enabled.
- 3. Select the item that you want to approve or reject and click the appropriate button from the following options:
  - **Mark All** Select to mark all the requests on the page.
  - **Unmark All** Select to unmark all the requests on the page.
  - **Reject** Click this button to reject a request awaiting authorization.
  - **Approve** Click this to approve requests awaiting authorization.

**Note**: The **Save** request that appears could indicate any changes and not just renaming or changing group memberships.

Once you click approve or reject, the request awaiting authorization disappears from the list.



### Summary

Use the **Summary** option for a brief over of each of the options available on the **Summary** dialog. For example, you can click **Connection Managers** to view the status of the Connection Manager instance that is running or click **Devices** for a quick overview of the device status. You can even enable/disable devices that are available within Control Center.

#### Layers

Use the Layers option to set the zoom settings in the Entity Layers dialog to perform the following:

- Make sure the map is not cluttered when you zoom out.
- Adjust the zoom levels at which the labels should appear for a scene. To do this, click on the map surface and then select the **Layers** property in the property grid.
- Adjust the visible range for the labels layer using the slider.