

ORBNET Live Maps for Milestone XProtect

Installation, Setup and User Guide



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1 Prerequisites

1.1 Software and Licensing

1.1.1 Microsoft System Requirements

- Microsoft® Windows® 10 Pro and Enterprise (64 bit)
- Microsoft® Windows® 10 Enterprise LTSB (Long Term Servicing Branch) 2016 (version 1607 or later)
- Microsoft® Windows® 10 IoT (Internet of Things) Enterprise, version 1803 or later (64 bit), IoT Core
- Microsoft® Windows® 11 Pro and Enterprise (64 bit)
- Microsoft® Windows® Server 2016 (64 bit): Essentials, Standard and Datacenter
- Microsoft® Windows® Server 2019 (64 bit): Essentials, Standard and Datacenter
- Microsoft® Windows® Server 2022 (64 bit): Essentials, Standard and Datacenter

1.1.2 Milestone XProtect System Requirements

- XProtect Essential+, XProtect Express+, XProtect Professional+, XProtect Expert, XProtect Corporate [2022 R1 (22.1a) or above]
- XProtect Event Server
 - The XProtect Event Server is included as part of your XProtect installation.
 Note If this component was not installed with your XProtect product, follow the steps found in troubleshooting at the end of this document.

1.1.3 ORBNET Systems

- License ORBNET Live Maps
 - When you first install ORBNET Live Maps you will get a 30-day trial license, following this you will need to update to a paid license.
 - From the website <u>https://orbnetsys.com/LiveMaps</u> select "ORDER NOW!"
- Installer 'ORBNET Live Maps Service Setup.msi'
 - Available to download from <u>https://orbnetsys.com/LiveMaps</u> once registered and signed into the website <u>https://orbnetsys.com/</u>
- Installer 'ORBNET Live Maps XProtect Plugins Setup.msi'
 - Available to download from <u>https://orbnetsys.com/LiveMaps</u> once registered and signed into the website <u>https://orbnetsys.com/</u>
- Files 'ORBNET Live Maps Client.zip
 - Available to download from <u>https://orbnetsys.com/LiveMaps</u> once registered and signed into the website <u>https://orbnetsys.com/</u>

1.1.4 Copyright, trademarks, and disclaimer

Copyright © 2023 ORBNET Systems

Copyright law and international treaties protect this Software.

Licensing agreements specify the terms and conditions of the Software use.

Neither the Customer nor any third party will be permitted to inspect, possess, use, copy, or attempt to discover any part of the Software source code (or any portion thereof).

<u>Trademarks</u>

XProtect is a registered trademark of Milestone Systems A/S. Milestone XProtect and connected components will be referred to as XProtect throughout this document.

Unity is a registered trademark of Unity Technologies, San Francisco.

This document contains other trademarks which belong to their respective owners.

Disclaimer

In preparing this text, due care has been taken to ensure that it is intended for general information purposes only.

Information provided herein does not constitute any kind of warranty, and any risk resulting from its use rests with the recipient.

Adjustments may be made without prior notification by ORBNET Systems.

In this text, all names and organizations referenced in examples are fictitious.

2 Software Schematic with Installation Methods

####



3 Installation of ORBNET Live Maps for XProtect

Begin with the server/machine that will be used for <u>ORBNET Live Maps</u>. For most installations this should be a dedicated server to provide the best all-round performance for the <u>XProtect</u> solution.

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| Cancel | WARNING: This computer program is protected by copyright law and international reaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law. | |
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Move onto any XProtect Smart Client machines that will be used with the <u>ORBNET Live Maps</u> solution.

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Further Client installation files can be found in the <u>ORBNET Live Maps</u> installer package under the Client folder. **Unzip** the Map Client compressed folder.

| Name | Туре |
|------------|----------------------------|
| Map Client | Compressed (zipped) Folder |

Copy the newly unzipped Map Client folder.

| ^ | |
|------------|------------------|
| ame | Date modified |
| Map Client | 05/08/2023 16:37 |
| Map Client | 03/08/2023 14:39 |

Navigate to C:\Program Files\Milestone\MIPPlugins\ORBNET\ORBNET Live Maps\ Inside this folder paste the <u>Map Client</u> folder.

You may get a prompt to provide administrator permission to copy to this folder. Press Continue.

| Name | Туре | Size | Date | |
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Now when the <u>ORBNET Live Maps</u> plugin is run in the <u>XProtect Smart Client</u> the <u>Unity Client</u> will load <u>ORBNET Live Maps</u> correctly.

4 Product License

Licensing details are found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live</u> <u>Maps</u> service installed. **Right click** the tray icon and **Stop** the <u>ORBNET Live Maps</u> service before then selecting **Update license**...

| | Start |
|---|------------------------------|
| | Stop |
| | View Logs |
| | Change settings |
| | Manage passwords |
| ſ | Update license |
| | Import HTTPS Certificate API |
| | Exit |
| | |

This page will initially show the default license values with just the trial license countdown (Default Trial Period: 30-days).

(1) When making a license request, please complete the fields in bold.

- Client Name
- MAX Numbers of Smart Clients
- Max Number of tracked objects
- Max Number of static objects

<u>Smart Client</u> – Refers to each connected XProtect Smart Client application registered for use with the licensed product. A pool of connection license channels are used on a first come first basis for any XProtect Smart Client, with the ORBNET Live Maps plugin installed. The list can be manually updated clients revoked access to free a license channel.

Tracked Objects – Refers to live objects used within ORBNET Live Maps system. A connected GPS device, API tracked device or Milestone device that provides live tracking information, i.e. camera with GPS metadata or XProtect Mobile push client providing location data.

Static Object – Refers to objects set with a manual location position. These would be fixed objects like, cameras that are physically fitted in a set location. The position is either set manually in Milestone device settings. Or and object added to the ORBNET Live Maps database with a static object tag.

Use the (2) **Export** license request button to generate a license request file. This must be included in an email to ORBNET Systems (<u>purchase@orbnetsys.com</u>) when requesting your license.

On completion a valid license will be sent back. This can be imported by using the (3) **Import** valid license button. (4) This will now show an unlimited timeframe associated to ORBNET Live Maps with the requested number of <u>XProtect Smart Clients</u> and <u>Objects</u>.

| ORBNET GIS Maps License Settings | - | - 🗆 | × |
|----------------------------------|--------------------------------------|-----|---|
| 0 | | | |
| RBNET | | | |
| YSTEMS | 4. | | |
| Time left: 5 days, 1 hour, 15 n | ninutes, 16 seconds | | |
| 2 | 2 | | |
| | | | |
| Import | Export | | |
| · · · · · | | | |
| ORBNETMapsLicense | | | |
| | | | |
| | 1. | | |
| License Info | | | |
| a. Client Name | <your company="" name=""></your> | | |
| b. Days Valid (-1 == Unlimited) | 30 | | |
| c. License Id | 108a7247-cde3-4c91-a309-fc8d57692db4 | | |
| d. Unique Id | bdff4b7f-204a-430a-81b2-3f8aa88dab88 | | |
| e. License Number | 1691249559929 | | |
| f. Product Version | 1.0.2.0 | | |
| g. Version Release Date | 10/31/2022 12:00:00 AM | | |
| h. ORB Up End Date | 8/4/2024 12:00:00 AM | | |
| i. Hash Code | | | |
| 2. ORBNETMaps Options | | | |
| a. MAX Number of Smart Clients | 10 | | |
| b. Max Number of tracked objects | 1000 | | |
| | 1000 | | |

5 Configuration

5.1 ORBNET Live Maps

The majority of <u>ORBNET Live Maps</u> system settings are changed from the system tray icon. If you cannot see this check for hidden programs.



If not show on in the system tray the application can be run from here. C:\Program Files\ORBNET\ORBNET Live Maps\ORBNET Live Maps Service Controller\ORBNETMapsTray.exe

5.1.1 Start and Stop Service

<u>ORBNET Live Maps</u> service control can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed. **Right click** the tray icon and use **Start** or **Stop** to change the service state.

When started, <u>Start</u> will show greyed, and <u>Stop</u> will be available to click. When Stopped, <u>Stop</u> will show greyed, and <u>Start</u> will be available to click.



When you hover over the <u>ORBNET Live Maps</u> system tray icon this will also show the service state as <u>Running</u> (Started) or <u>Stopped</u>.



5.1.2 View Logs

<u>ORBNET Live Maps</u> Log Viewer can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed. **Right click** the tray icon and click **View Logs**.



The Log Viewer window will show, initially the window will be blank. Live logs will show as and when generated.



Action Buttons:

- [Open Folder] Opens folder containing log files.
- [Open File] Opens current log file in notepad or default .log file application.
- [Freeze] Stops live feed of logs, useful if you need to catch a log entry.
- [Clear (no-loss)] Clears the log window so new log entries show on top. No loss to log file.

5.1.3 Change settings

<u>ORBNET Live Maps</u> settings can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed. **Right click** the tray icon and **Stop** the <u>ORBNET Live Maps</u> service before then selecting **Change settings**...

| | Start |
|---|------------------------------|
| l | Stop |
| | View Logs |
| C | Change settings |
| 1 | Manage passwords |
| | Update license |
| | Import HTTPS Certificate API |
| | Exit |
| | |

ORBNETMapsConfiguration

• API (Application Programming Interface) Settings

- API Authentication Mechanism
 - <u>None</u>: No Authentication (Default)
 - Basic: Use Basic Authentication (not safe unless using HTTPS)
 - <u>Digest</u>: Use Digest Authentication (Safer than Basic)
 - JSON Web Token: Enables JWT (JSON Web Tokens) security (Safest option).
 A Public key must be added to "_\ProgramData\JWTPublicKey\public_key.crt"
- API Port
 - <u>45656</u> (Default) Select the TCP port that the RESTFULL API will use for HTTP
- API Secure Port
 - <u>45657</u> (Default) Select the TCP port that the RESTFULL API will use for HTTPS (requires certificate)

• XProtect Connection Settings

- Connect to XProtect
 - <u>Tick Enabled</u> (Default) <u>required for operation</u>. Connect and start <u>XProtect SDK</u>.
- XProtect Management Login Method
 - <u>Service Account:</u> Use the service account the <u>ORBNET Live Maps</u> is running as to login to the XProtect Management Server.
 - <u>BasicUser:</u> Use XProtect Basic User credentials to login to the <u>XProtect Management</u> <u>Server</u>.
 - <u>WindowsUser:</u> Use Windows User credentials to login to the <u>XProtect Management</u> <u>Server.</u>
- XProtect License
 - <u>Field automatically:</u> Software license code from the <u>XProtect Management Server</u>.
 - XProtect Management Server IP (Internet Protocol)
 - <u>Fillable Field:</u> Enter the IP address of the <u>XProtect Management Server</u>.
- XProtect Product Type
 - Field automatically: Product Type from the <u>XProtect Management Server</u>.

• ORBNET Live Maps Settings

- Database Path
 - C:\ProgramData\ORBNET\ORBNET Live Maps\Service\Database (Default)
 The file path where the <u>ORBNET Live Maps</u> databases are located. A network attached storage can be specified.
- Disable position recording
 - <u>Tick Disable (Default)</u> Disables recording new positions and saving them to the database.
- Hostname
 - Field automatically: The hostname of this ORBNET Live Maps Server
- Log Level
 - Normal (Default) Normal, Trace, Debug.
 - Only change from Normal if requested to do so by ORBNET Support.
- Log Statistics Every (Seconds)
 - o <u>60</u> (Default) The <u>ORBNET Live Maps</u> statistics will be logged every x seconds.
- Object Retention Time (Days)
 - \circ <u>7</u> (Default) The retention time for all objects stored in the database in days.
- Tile Options
 - <u>Both</u> (Default) Both, Online, Offline.

Select if we connect to the tile server to pull tiles or if we use the local storage.

| Orbnet Maps Settings | |
|--------------------------------|---|
| | |
| BNET | |
| RBNETMapsConfiguration | |
| | |
| <u></u> Z • | |
| API Settings | |
| API Authentication Mechanism | None |
| API Port | 45656 |
| API Secure Port | 45657 |
| Milestone Connection Settings | |
| Connect to Milestone | |
| Management Login Method | ServiceAccount |
| Milestone License | MP1-C01-C04-30-400480 |
| Milestone Management Server IP | 127.0.0.1:80 |
| Milestone Product Type | Corporate |
| Milestone Server Id | bdff4b7f-204a-430a-81b2-3f8aa88dab88 |
| ORBNET GIS Maps Settings | |
| Database Path | C:\ProgramData\ORBNET\ORBNET Live Maps\Service\Database |
| Disable position recording | |
| Hostname | 853/39-400708 |
| Log Level | Normal |
| Log Statistics Every (seconds) | 60 |
| Object Retention Time (Days) | 7 |
| Tile Options | Both |

After the settings have been changed close this window and **Start** the <u>ORBNET Live Maps</u> service from the system tray icon.

5.1.4 Password Manager

<u>ORBNET Live Maps Password Manager</u> can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed. **Right click** the tray icon and **Stop** the <u>ORBNET Live</u> <u>Maps</u> service before then selecting Manage passwords...

| Start | - 1 |
|-------------------------------|-----|
| Stop | |
| View Logs | |
| Change settings | |
| Manage passwords | - 1 |
| Update license | - 1 |
| Import HTTPS Certificate API. | . |
| Exit | |

- Basic User for Service Login
 - Enter the <u>XProtect Basic User</u> used for connection to <u>XProtect Management Server</u>.
 Required for connection to <u>XProtect</u>
- Basic Users
 - Accounts can be created to be used for the <u>ORBNET Live Maps</u> API

| ORBNET Basic User Passwor | rds Manager | - | | \times |
|--|-----------------------|-------------|--------|----------|
| 6 | | | | |
| Please add the list of basic user Authentication. | names and passwords u | sed for the | JWT To | ken |
| Basic User for Service Login | | | | |
| orbnet | ***** | | Show | |
| Basic Users | | | | |
| api | ****** | | Show | Delete |
| | | | Show | Delete |
| | | | | |
| < | | | _ | > |

Once account details are added or edited, close this window and the details will be saved. **Start** the <u>ORBNET Live Maps</u> service from the system tray icon.

5.1.5 Import HTTPS Certificate API

<u>ORBNET Live Maps Import HTTPS Certificate API</u> can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed.

| Start |
|------------------------------|
| Stop |
| View Logs |
| Change settings |
| Manage passwords |
| Update license |
| Import HTTPS Certificate API |
| Exit |
| |

Please refer to separate <u>API documentation</u> for the steps of this process.

5.2 Connect to XProtect Methods

5.2.1 Network Service

As default <u>ORBNET Live Maps</u> will connect to <u>Milestone XProtect</u> with a Windows Network Service account. This works only for the case where <u>ORBNET Live Maps</u> is installed on the same machine as the <u>XProtect Management Server</u>. We would recommend against this configuration for live sites. However, for a demo or test environment this would in most cases be adequate.

5.2.2 XProtect Basic

To use a <u>XProtect Basic</u> user account as the <u>ORBNET Live Maps</u> Service login. Start by creating a new <u>Basic User</u> Account within the <u>XProtect Management Client</u>. Site <u>Navigation</u> > <u>Security</u> > <u>Basic</u> User.



Add a <u>Username</u> of your choosing plus a complex **password** for the account and ensure that the <u>Status</u> is set to **Enabled** and <u>Force Basic User to change password on next login</u> is **unticked**.



Adding the password to the description can be useful for administration, however, offers a lower level of security on larger systems.

| New Basic User | × |
|---|-------------------------------|
| User name: maps-user | |
| Description: uKJpGm95wee#AZU* | ^ |
| | ~ |
| Password: | |
| ••••• | |
| Repeat password: | |
| ••••• | |
| Force Basic User to open series of the se | change password on next login |
| Status: Enabled V | |
| | OK Cancel |

Add this new Basic User account to a role, Site Navigation > Security > Roles.



Select **Users and Groups**. We recommend the **Administrators** <u>Role</u>, however depending on the site configuration may require a customized <u>role</u>. This being the case, provide a <u>role</u> with access to all components that are required to be visible in <u>ORBNET Live Maps</u>.

Select Add.. Basic User, find the relevant account and tick to add to the <u>Role</u>.

| Roles - 7 | Role Settings | • P |
|---|--|--|
| Name | Name 🔺 | Description |
| Administrators (Administrator S Operators (Default role create | B DESKTOP-4D072EK\ NT AUTHORITY\NET | Select Basic Users to add to Role \times |
| | 2 orbnet 2 svc.milestone | Select user: Select Name Image: maps-user Image: maps-user Image: maps-user |
| | Windows user Basic user Add | New |
| | 🗊 Info 🦸 Users and Group | OK Cancel Is External IDP Overall Security PTZ > |

<u>ORBNET Live Maps</u> settings can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed. **Right click** the tray icon and **Stop** the <u>ORBNET Live Maps</u> service before then selecting **Change settings**...

| | Start |
|---|------------------------------|
| C | Stop |
| | View Logs |
| ſ | Change settings |
| | Manage passwords |
| | Update license |
| | Import HTTPS Certificate API |
| | Exit |
| | |

Milestone Connection Settings

- Connect to Milestone
 - o <u>Tick Enabled</u> (Default) <u>required for operation</u>. Connect and start <u>Milestone SDK</u>.
- Management Login Method
 - Select **BasicUser**: Uses Milestone Basic User credentials to login to the <u>Milestone</u> <u>Management Server</u>.

| | | | ^ |
|-------------------------------|-----------|--|---|
| RBNET | | | |
| ORBNETMapsConfiguration | | | |
| | | | |
| API Settings | | | ^ |
| API Authentication Mechanism | None | | ~ |
| API Port | 45656 | | |
| API Secure Port | 45657 | | |
| Milestone Connection Settings | | | |
| Connect to Milestone | | | |
| Management Login Method | BasicUser | | ~ |

<u>ORBNET Live Maps</u> <u>Password Manager</u> can be found from the <u>ORBNET Live Maps</u> tray icon by selecting Manage passwords...

| Stop View Logs Change settings Manage passwords | |
|--|----|
| View Logs Change settings Manage passwords | 8 |
| Change settings Manage passwords | |
| Manage passwords | |
| | E. |
| Update license | E. |
| Import HTTPS Certificate API | U. |
| Exit | |

- Basic User for Service Login

Enter the <u>XProtect Basic User</u> used for connection to <u>XProtect Management Server</u>.

| ORBNET Basic User Pas | sswords Manager | | × |
|---|---------------------------|-----------------------|------|
| Please add the list of basic Authentication. | usernames and passwords u | sed for the JWT Toker | |
| Basic User for Service Log | Jin | | |
| maps-user | **** | Show | |
| Basic Users | | | |
| арі | **** | Show De | lete |
| | | Show De | lete |
| | | | _ 1 |
| | | | |

Once account details are added or edited, close this window and the details will be saved. Start the <u>ORBNET Live Maps</u> service from the system tray icon.

5.2.3 Service Account

Where <u>XProtect</u> uses an <u>Active Directory Service Account</u> or shared <u>Workgroup Service Account</u>, <u>ORBNET Live Maps</u> is also able to use this method. In <u>Windows Services</u> you will see that the <u>XProtect</u> services use <u>Windows account</u> to <u>Log On</u> instead of the default <u>Network Service</u> account <u>XProtect</u> will install with as default.

Open **Windows** > **Servies** and find the <u>Milestone XProtect</u> related services, the <u>Log On As</u> column will display a <u>Windows account</u> instead of <u>Network Service</u>. Generally, this will be formed <u><DOMAIN\USER></u> (in this example <u>.\Milestone</u>)

| 🤹 Milestone XProtect Data Collector Server | Collect perfo | Automatic | .\Milestone |
|--|---------------|-----------|-------------|
| 🧠 Milestone XProtect Event Server | The server f | Automatic | .\Milestone |
| 🖏 Milestone XProtect Management Server | Manages co | Automatic | .\Milestone |
| Allestone XProtect Recording Server | Processes an | Automatic | .\Milestone |

Find the <u>ORBNET Live Maps</u> service, **Right-click** and select **Properties**.

| ORBNET Maps | Start BNET Maps | s Auto | omatic Network Se |
|-------------|-----------------|--------|-------------------|
| _ | Stop | | |
| | Pause | | |
| | Resume | | |
| | Restart | | |
| | All Tasks | | |
| | Refresh | | |
| | Properties | | |
| | Help | | |

Page **21** of **46**

Select the Log On tab and select the This account, field and update <u>NETWORK SERVICE</u> to the same service account used for <u>XProtect</u>. Add the Password, Confirm Password and finally press Apply, acknowledge the prompt, and press OK.

| ORBNET Maps Propertie | es (Local Computer) | × | | | |
|--|---------------------|---|--|--|--|
| General Log On Reco | very Dependencies | | | | |
| Log on as: | | | | | |
| <u>◯</u> _ocal System account | | | | | |
| Allow service to interact with desktop | | | | | |
| | .\Milestone | | | | |
| Password: | ••••• | | | | |
| Confirm password: | ••••• | | | | |
| | | | | | |
| | OK Cancel Apply | | | | |

To use a <u>Service Account</u> user in <u>XProtect</u>, ensure the account is added to a <u>Role</u> from the <u>XProtect</u> <u>Management Client</u>. Site Navigation > Security > Roles.



Select Users & Groups check this account is included in the Administrators role. To add an account, select Add.. then Windows user. Find the relevant user from the <u>domain</u> or <u>workgroup</u>. Use Check Names to verify the user and domain is correct then press OK.

| toles - 4 | Role Settings | | | - |
|---|---|---|--------------|--------------------|
| Name | Name | Description | | |
| Administrators (Administrator Operators (Default role create | DESKTOP-4D072EK/Mileston maps-user NT AUTHORITY/NETWORK S | e uKJpGm95wee#AZU* ERVICE | | |
| | a svo.miestone | Select Users or Groups | | × |
| | | Select this object type: | | |
| | | Users, Groups or Built-in security principals | | Object Types |
| | | From this location: | | |
| | | DESKTOP-4D072EK | | Locations |
| | | Enter the object names to select (examples): | | |
| | | DOMAIN/Milestone | | Check Names |
| | Mindows was | | | |
| | Mindows user | Advanced | OK | Cancel |
| | Basic user | | | |
| | Add • Remov | e | | |
| | | | | |
| | | | | |
| | 🗊 Info 🦸 Users and Groups 🕌 | External IDP @ Overall Security PTZ | Speech 💐 Rem | ote Recordings 🔳 🕻 |
| | | | | |

<u>ORBNET Live Maps</u> settings can be found from the <u>ORBNET Live Maps</u> tray icon on the server with <u>ORBNET Live Maps</u> service installed. **Right click** the tray icon and **Stop** the <u>ORBNET Live Maps</u> service before then selecting **Change settings**...

| Sta | rt |
|------|----------------------------|
| Sto | р |
| Vie | w Logs |
| Cha | ange settings |
| Ma | nage passwords |
| Up | date license |
| Imp | oort HTTPS Certificate API |
| Exit | |
| | |

- Milestone Connection Settings
 - Connect to Milestone
 - o <u>Tick Enabled</u> (Default) <u>required for operation</u>. Connect and start <u>Milestone SDK</u>.
 - Management Login Method
 - Select ServiceAccount: Uses the service account the <u>ORBNET Live Maps</u> is running as to login to the <u>Milestone Management Server</u>.

| Orbnet Maps Settings | | _ | \times |
|---|----------------|---|----------|
| 0 | | | |
| | | | |
| A PINE/ VSTEMS | | | |
| ORBNETMapsConfiguration | | | |
| 2 | | | |
| API Settings | | | |
| API Authentication Mechanism | None | | Ý |
| API Port | 45656 | | |
| API Secure Port | 45657 | | |
| Milestone Connection Settings | | | |
| Connect to Milestone | | | |
| | ServiceAccount | | ~ |

Once the <u>Login Method</u> is edited, close this window and the details will be saved. **Start** the <u>ORBNET</u> <u>Live Maps</u> service from the system tray icon.

5.2.4 Windows Account

###

6 User Guide

With <u>ORBNET Live Maps</u> Plugin installed, **Open** the <u>XProtect Smart Client</u> and go into <u>Setup</u> Mode. Under <u>System Overview</u> <u>ORBNET Plugins</u> you will find the <u>ORBNET Live Maps</u> plugin. **Creating** a new <u>View</u> **4:3** (1x1) is recommended. Then drag and drop the <u>ORBNET Live Maps</u> <u>plugin</u> this into a blank tile.



When the <u>ORBNET Live Maps</u> plugin first loads the screen will display a <u>Made with Unity</u> splash screen.

| Views Exports Search Streami | ng Engine Alarm Manager | Incidents Corsight Plugin | System Monitor | 14:15:29 | LA. | 2. : |
|--------------------------------|---------------------------|-----------------------------|--------------------|----------|------|----------|
| XProtect | « MAPS | × 13 | | Q V | ÷ so | ntup 🛛 🖉 |
| Views Search views and comeras | | MADE WITH | Unity [,] | | | × |

Exit <u>Setup</u> to return to live operation mode in the <u>XProtect Smart Client</u>. Once the <u>Unity</u> splash screen has finished loading <u>ORBNET Live Maps</u> will now display from the default set location.



User Interface 7

The ORBNET Live Maps user interface comprises of control buttons on the top and side panels. These control what and how objects and layers are shown within the map window.



- 5. Map Styles
- 9. Side Panel
- 7. Filters
- 8. Settings

- 6. Selective Objects

7.1 Objects

A side panel shows when selected for system <u>Objects</u>. From this side panel these options are available.

| 1. | Cameras | These are XProtect cameras shown in XProtect camera grou | ps |
|----|---------|--|----|
|----|---------|--|----|

- 2. Live Objects These are objects added to the **ORBNET Live Maps** database
- 3. Views XProtect Smart Client views list
- Inputs Available Inputs from XProtect 4.
- Available Outputs from 5. Outputs



- 1. Cameras
- 2. Live Objects
- 3. Views
- 4. Inputs
- 5. Outputs

7.1.1 Cameras



These <u>objects</u> are devices already configured within <u>XProtect</u> and connected to a <u>XProtect Recording</u> <u>Server</u> with a video stream channel.

As default these will be characterized with one of the below icons.



To enable these camera devices to show on the map in <u>ORBNET Live Maps</u>, add the <u>GPS coordinates</u> to the camera information in the <u>XProtect Management Client</u>. Cameras set with a valid location will display automatically on the map.

| Positioning information | | |
|---------------------------------------|---------------|-----|
| GPS coordinates: | Illustration: | |
| 39.849312, -104.673828 | No | rth |
| (Example: -33.856900, 151.215100) | * | |
| Direction (a): | a | |
| 0 Degrees | b | |
| Field of view (b): | | |
| 0 Degrees | c c | |
| Depth (c): | | |
| 0 Meters ~ | | |
| | | |
| Preview position in browser | | |
| · · · · · · · · · · · · · · · · · · · | | |

Camera <u>objects</u> generate states in <u>XProtect</u>, and can be used to display additional information, floating on the bottom right corner of an object.



Example shows a Body Camera in an offline state.



Alarm States

As well as the above states <u>ORBNET Live Maps</u> is also able to receive alarm states from <u>XProtect</u>. Wherever an <u>XProtect Alarm Definition</u> is created and with an associated camera or device these will display a triggered alarm state on the object icon.

The camera object on the map will display a flashing red circle.

In the object list the camera name text will show in red when in an alarm state.





7.1.2 Dynamic Objects

Select the below option.



These objects are unique to <u>ORBNET Live Maps</u> and shown within the map window, based on a <u>Global</u> <u>Positioning System (GPS)</u> location. These can be static or live depending on the type of object and how the data is sent to the <u>ORBNET Live Maps</u> service. These objects can only be sent to the map via the <u>Application Programming Interface (API)</u>. The basics of the API will be covered in this document, there will also be a dedicated API document for <u>ORBNET Live Maps</u>.

There are several icons used to represent distinct types of objects in the map window. Shown below are a few icons available, but not limited to. It is also possible to customize icons to suit a project's requirement.



7.1.3 Views

Select the below option.



<u>Views</u> created from the <u>XProtect Smart Client</u> will show when this option is selected. From this menu <u>views</u> can be associated with <u>objects</u>. When an object is selected on the Map the associated cameras can be shown. This will pop up the relevant <u>view</u> in a new <u>XProtect Smart Client</u> window.



7.1.4 Inputs

Select the below option.



<u>Inputs</u> are taken from <u>XProtect devices</u> with <u>inputs</u> already configured and enabled. From this menu inputs can be associated with <u>objects</u>. When an <u>object</u> is selected there is a control menu that shows available <u>inputs</u> and shows the current state.

7.1.5 Outputs

Select the below option.



<u>Outputs</u> are taken from <u>XProtect devices</u> with <u>outputs</u> already configured and enabled. From this menu <u>outputs</u> can be associated with <u>objects</u>. When an <u>object</u> is selected there is a control menu that shows available <u>outputs</u> and allows the current state to be changed.

7.2 Maps

Select the <u>Maps</u> option from the left-hand menu.



This menu is used to display Milestone Maps already created within the <u>XProtect Smart Client</u>.



Right Click to show <u>Popup Map</u>, **click** to open Map in a new popup menu.

7.3 Search

Select the <u>Map Search</u> option from the left-hand menu.



The side menu will open to display a search dialog

| 0 | | × |
|--|---|---|
| Cameras | D Objects | Floorplans |
| Q orb | | 井 |
| orb Orb Orb Orb Orb Orb Orb Orb | Driver (0.0.0.2 Driver (0.0.0.3 Driver (0.0.0.4 Driver (0.0.0.5 Driver (0.0.0.10 Driver (0.0.0.11 Driver - Came |) - Camera 1) - Camera) - Camera 1) - Camera 1 0) - Camera 1 1) - Camera 1 ra 1 Test |

Filter by type, **press** to unselect an option will show grey.

Type to start search.

7.4 Commands

Select the Commands option from the left-hand menu.



The side menu will open to display the command window.



Example <u>command</u> setup.



Reboot command example for i-PRO camera. http://username:password@192.168.0.10:/ cgi-bin/initial?cmd=reset

The command text must include the full <u>HTTP</u> <u>URL</u> including the <u>username</u>, <u>password</u>, <u>device</u> <u>IP</u> and the <u>CGI command</u>.

Note that the username and password is included in this URL in plain text. When sent across the network from the ORBNET Live Maps server the message is then encoded in base64.

7.5 Map Styles

From the top right panel, Map Styles can be selected. As default there are three options.

All these options use a tile server to provide the map image in a grid form. At different zoom levels new map images are provided. Map tiles are downloaded a stored locally, this makes the map load quicker. Changing Map Style will require new tiles to be downloaded so may be slow to load first time around.

| | FFI. |
|---|------------|
| 4 | Dark |
| 1 | OpenStreet |
| | Satellite |

Dark



Satellite







7.6 Selective Objects

This is a filter option. The menu shows available <u>object types</u>, already shown on the <u>map</u>. As default these show with a green tick alongside them. When pressed the green tick will be removed and the <u>object type</u> will be removed from the <u>map</u>.



With cars unselected, the objects as a car type have been removed.



7.7 Filters

From the top right corner panel, **click** the <u>Filters</u> option.



The below menu will show in the center of the screen.

The initial option that will be shown is <u>Time</u>.

| WASH Spokane G | rest Falls | N.O. Error | Time | |
|----------------------------|---------------|--|----------|------|
| ORE: Hore USA | Time | ▼ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Hour | 1-24 |
| Santa Santa | ake City | Trans Contraction Compared | Day | 1-31 |
| Reno nento | | Chinad Strategy Strategy Strategy | Week | 1-52 |
| CALLE CALLE Bake 100 | ▼ Infinite | Polsa - Contraction - Contract | Month | 1-12 |
| Los Angeles | ARIZ. N.M. | Lubbook Birmingham | Infinite | ∞ |

<u>Time</u> as a filter is used in relation to <u>objects</u>. When an <u>object</u> is added to the <u>map</u> a historical time is logged to the <u>ORBNET Live Maps</u> database. Update the time filter, historical <u>objects</u> before the selected time will be removed.

The second selection in this menu is Tags



Add a tag by typing the text and click [Save Tag]. This option is then selectable. Click [+Add tag] to add other tags.



Tags are used in relation to objects names. If the tag is included in the name, the object will be shown when ticked and not shown when unticked.

7.8 Settings

From the top right corner panel, **click** the <u>Filters</u> option.



The below menu will first show, use the tabs to select other options.

<u>Map</u>

Home position – Cannot be set manually in this menu, use right click while in the map.

Icon Map Size – This changes the size of cameras and objects shown on the map. These update in real-time.

Font Color – Map – When clicked this shows a color picker. Use to change the color of display text for cameras and objects on the map.



UI (User Interface)

Font size – Font size of text used for any of the <u>ORBNET Live Maps</u> menus Icon UI Size – Icon size used for any Icons shown in <u>ORBNET Live Maps</u> menus Font Color – UI – Font Color used for text in any of the <u>ORBNET Live Maps</u> menus



<u>Trail</u>

Trail Style Toggle – Changes between two trail styles

Object Trail Length – Use bar to adjust how long the trail is (0 – 100 location points) ## - (0 – 1000)

| | | Brzeg Częst | \otimes |
|---------------------------------------|----------------------|----------------------------|----------------|
| Мар | | | Trail |
| | | Kato Rybnik | vice Krakow |
| | ✓ Trail Style Toggle | e Oströvar Bielsky | |
| | | | |
| Regenskurg Straublog Ingelstadt | sts Trail Length ——— | 20 Minutza | |
| | | | |
| Rosenherm Salzou 30 | Austria S | undar h Nestarn Budg | |



7.9 Side Panel

The side panel displays to the right of the map screen, this opens as default when <u>ORBNET Live Maps</u> is loaded.



To open and close the side panel use the arrows in the center of the panel.



This window will show the last selected object or camera. Note the white border of the window.



When you mouse over an object or camera the Preview window will be highlighted in green.



When an object or camera is pressed with the left mouse click it will be shown at the top of the side panel.





- 1. Expand <u>Camera</u> or <u>Object</u> properties
- 2. Popup <u>Camera</u> in <u>XProtect</u> window
- 3. Lock Camera or Object to side panel
- 4. Clear Camera or Object from side panel

click option 1 to expand the Cameras or object properties.



Properties

The information provided will be dependant on the device type. If this is a camera device from XProtect the properties show will be what is made available from XProtect via the MIP/SDK. Other devices connected via the API will show other information provided by third-party device.

Further expand Outputs and Inputs to show output controls and input states.

| | 🖄 🔤 🖗 🔅 🦚 | 23 |
|---|--|----------|
| n Body Camera | 🖞 Body Camera 🛛 🗸 🙆 📬 | × |
| Dourn | Properties | |
| Berzerel Belle Louis Bon Coat br | Camera Data Name: Body Camera Enabled: True Online: True Recording enabled: True Is recording: False Motion enabled: True Has motion: False | |
| Pratdoun | Outputs Output0 | ∽ |
| Lancelin Bihan | Output1 | |
| | Output2 | v |
| Castell Anter | Inputs Inputs0 | ▲ |
| | Inputs2 | v |
| Lesneven | | |

<u>Outputs</u>

Available device outputs will be shown here. Controls are; [Button] for momentary trigger [Tick] for <u>on</u> (ticked), <u>off</u> (unticked) trigger

<u>Inputs</u> Available device inputs will be shown here with the current states.

8 Map Functions

8.1 Right Click Menu

8.1.1 Map

Right click anywhere in the map where another <u>object</u> or <u>camera</u> is not shown.

| 48.1504, -4.1460 [Copy] |
|----------------------------|
| Set as Home position |
| Popup Map |
| Pin this location |

Current GPS position Set current position as Home position Popup Map ## Pin current location

8.1.2 Object or Camera

| 0.0000, 0.0000 [Copy] | Current GPS position of object or camera |
|--------------------------------|---|
| Set as Home position | Set current position as Home position |
| Disable camera | Disable camera |
| Load Floorplan | Set related Floorplan |
| Popup Camera | Popup Camera in XProtect view |
| Open Floorplan | Open related Floorplan |
| Close Floorplan | Close related Floorplan |
| Acknowledge Alarm | Acknowledge Alarm when in Alarm state |
| Settings | Association menu |
| Follow object | Follow object moves the screen with the object or camera centered |
| Run Commands $ ightarrow$ | Run associated Commands, three show |
| Popup Views > | Popup associated Views, three show |
| Activate Outputs \rightarrow | Activate associated Outputs, three show |

8.2 Location Pin

Right click anywhere in the map where another <u>object</u> or <u>camera</u> is not shown. Select **Pin this location** to add a pin to the map, **right click** again to unpin.





This is the pin that will show on the map.

9 Troubleshooting

9.1 XProtect Event Server Installation

If XProtect was installed via a custom installation, the <u>XProtect Event Server</u> service may not have been included, as it is not always required.

From the server/machine with the <u>XProtect Management Server</u> service follow to <u>http://localhost/installation/admin/default-en-US.htm</u>

This will provide a XProtect installation page where you will be able to run the installer for the <u>XProtect</u> <u>Event Server</u>. This must be installed so the ORBNET plugin can communicate with XProtect MIP SDK.



9.2 ORBNET Live Maps Client not found

When adding the <u>ORBNET Live Maps</u> application to a tile in the XProtect Smart Client this message is shown.

| | × |
|---|---|
| ORBNET Map Client not found Files\Milestone\MIPPlugins\OF Client\ORBNETMaps.exe | d in: C:\Program RBNET\ORBNET Maps\Map |
| | ОК |

The Client files can be found in the <u>ORBNET Live Maps</u> installer package under the Client folder. Unzip the Map Client compressed folder.



Copy the newly unzipped Map Client folder.

| Name | Date modified |
|------------|------------------|
| | |
| Map Client | 05/08/2023 16:37 |
| Map Client | 03/08/2023 14:39 |

Navigate to C:\Program Files\Milestone\MIPPlugins\ORBNET\ORBNET Live Maps\ Inside this folder paste the <u>Map Client</u> folder.

You may get a prompt to provide administrator permission to copy to this folder. Press Continue.

| Name | Туре | Size | Date | |
|--|---|------------------------------|-----------------|--|
| Milestone Plugins | File folder | | 30/08/2023 15: | |
| 🚖 EULA (B2C and B2B ter | Rich Text Document | 669 KB | 03/08/2023 14:3 | |
| InstallerBanner | JPG File | 14 KB | 03/08/2023 14: | |
| ORBNET | lcon | 180 KB | 03/08/2023 14: | |
| Destination Folder Access You'll need to provide access | ss Denied Iministrator permission to | - Copy to this folde | r | |
| Destination Folder Acces You'll need to provide ac ORBNET Maps Date created: 3 | ss Denied Iministrator permission to 0/08/2023 15:12 | − □ copy to this folde | r × | |
| Destination Folder Acces You'll need to provide ac ORBNET Maps Date created: 3 | is Denied Iministrator permission to 0/08/2023 15:12 ontinue | – □ copy to this folde Cance | × r | |

Now when the ORBNET Live Maps plugin is run in the XProtect Smart Client the Unity client will load ORBNET Live Maps correctly.

9.3 ORBNET Live Maps tile shows blank

If the tile shows blank when shown the <u>ORBNET Live Maps</u> most likely is <u>Stopped</u> on the server that hosts the service or the server is offline. Check this server first and make sure the service is running.

| Milestone XProtect Smart Client | | | | | _ | | × |
|--|-----------------------|-----------------------------|----------------|------------|-----|------|---|
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| XProtect « | MAPS | ₩ | | 6 7 | : 5 | etup | Z |
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| Search views and cameras Q | | | | | | | |
| Default group | | | | | | | |
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| New View (1 x 1) | | | | | | | |
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| Shortcut: Set | | | | | | | |
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| ▶ @ Alarms | | | | | | | |
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| DESKTOP-4D072EK | | | | | | | |
| ORBNET Plugins | | | | | | | |
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| Carousel | | | | | | | |
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| HTML page HTML H | | | | | | | |
| Filmer | | | | | | | |