

# **CORE** for



# QuickStart

Version: 2018 R3 (C3 3.2.1)



This is the SAIMOS C3 CORE QuickStart guide. It has the goal to get you up and started with C3 CORE with Milestone XProtect. It will cover the most important steps to get a CORE channel up and running. For in depth information please refer to our C3 Manual.

### 1 Content

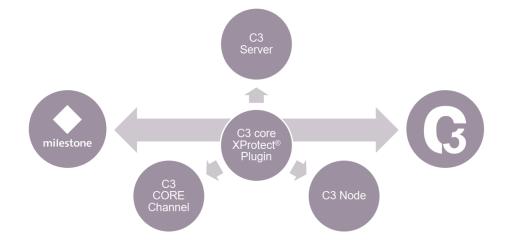
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### 2 What you need to start

- A PC running Windows and meeting the minimal requirements stated in <u>Requirements</u>
- Milestone XProtect 2018 R2+ installation already running and configured to your liking
- All the required installation Packages
  - C3 Server
  - C3 Node
  - C3 CORE Plugin

#### 2.1 About SAIMOS C3 CORE for <a>milestone | XProtect<sup>®</sup></a>

SAIMOS C3 CORE brings the power of the C3 Analytics Framework to Milestone XProtect<sup>®</sup> in a fully integrated way. It provides different algorithms for several use cases like perimeter security, people counting and left/removed object detection. The combination of C3 CORE and Milestone XProtect<sup>®</sup> enables users to profit from field proven analytics functionality of C3 while using the full capabilities of Milestone XProtect<sup>®</sup> for a comprehensive solution experience. The C3 CORE system is fully integrated into Milestone XProtect<sup>®</sup> Essential+ or higher via Plug-In and can be configured directly within the Milestone XProtect<sup>®</sup> Management Client.



### **3 Requirements** 3.1 Minimal software versions & prerequisites

Software	Version
C3 Server	3.2.1
C3 Node	3.2.1
Milestone XProtect	2018 R2
	Essential+
	• Express+
	Professional+
	• Expert
	Corporate
SAIMOS C3 CORE Plugin	2018 R3
	Visual C++ Redistributable 2015
	.NET Framework 4.7

#### 3.2 Minimal Performance Requirements for C3

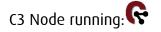
Component	min
CPU	Intel or AMD based CPU with 4 physical cores
	Passmark: 5000
	Single Thread Performance: 1900
RAM	4 GB
HDD	50 GB
Network	Gigabit Ethernet
0S	Windows 7+ 64 Bit
	Ubuntu 16.04/18.04 64 Bit

#### 4 Installation 4.1 What will be installed

Main component	Sub components
C3 Server	Python 2.7 (plain install for virtualenv creation)
	PostgreSQL 10
	Microsoft Visual C++ 2010 Redistributable Package (x64) (only for Windows OS)
	Microsoft Visual C++ 2013 Redistributable Package (x64) (only for Windows OS)
C3 Node	Microsoft Visual C++ 2010 Redistributable Package (x64) (only for Windows OS)
	Microsoft Visual C++ 2013 Redistributable Package (x64) (only for Windows OS)
C3 CORE Plugin	just the plugin

#### 4.2 Install C3

Run the C3 Node and C3 Server installer with administrator rights and follow the guided installer process until the installer indicates it is finished. After successful installation you should see the C3 Node and Server icon in the Windows Taskbar with black indicators:



C3 Server running:

After you have installed the two components you can leave them be and configure everything from within the Milestone XProtect Management Client if desired. Otherwise you will be able to enter the C3 web interface via

#### https://localhost:44444

and you can login with the default credentials:

Username: admin

Password: test

The C3 web server listens on all interfaces by default so you can also access it from another machine in the same network via one of the IP addresses of the machine. Please refer to the C3 Manual for further information.

#### 4.3 Install SAIMOS C3 CORE Milestone Plugin

Just follow the guided installer of the plugin and it will do the rest for you. After successful installation of all components you should be able to configure C3 core from within the Milestone XProtect Management Client. Within the Milestone Management Client the C3



Server icon should be visible in the Servers section (G). If you click on the C3 Server section you will be able to add C3 Servers and start with your <u>configuration</u>.

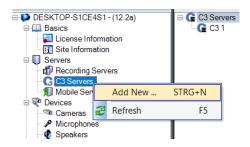
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<ul> <li>DESKTOP-S1CE4S1-(12.2a)</li> <li>Basics</li> <li>Basics</li> <li>License Information</li> <li>Ste Information</li> <li>Microphones</li> <li>Speakers</li> <li>Metadata</li> <li>Ste Information</li> <li>Wetadata</li> <li>Wetadata</li></ul>								

### 5 Configuration

This section will show you how to get a C3 Server configured with Milestone XProtect and how to create a channel. It will give you some details on how channels work and what the most important settings are. Everything else you can find in our C3 CORE Manual.

#### 5.1 Add C3 Server

To add a C3 Server to XProtect right click on the *C3Servers* entry in the *Servers* section of the Milestone XProtect Management Client and select *Add New* ...



A new dialogue will open where you can fill out the necessary information:

Add C3 Server			×
General Settings		Milestone Interfa	ce Configuration
Name:	C3 Server		Try Auto-Configuration
C3 Server Configu	uration	Host:	192.168.111.56
Host:	https://localhost	Port:	80
Port:	44444	Auth. Type:	Windows
Username:	admin	Usemame:	DESKTOP-S1CE4S1\jenkig
Password:	••••	Password:	
Default Node:	DESKTOP-S1CE4S1	Event Port:	9090
	Test C3 Connection		Test C3 Milestone Interface
			OK Cancel

Section	Field	Description
General Settings	Name	Your name for the new C3 Server. Choose wisely.
C3 Server Configuration	Host	Host address on which the C3 Server is running Standard: <u>https://localhost</u> If the server runs on a different machine localhost has to be switched for the IP of the host machine
	Port	The port on which the C3 Server is running Standard: 44444
	Username	Username for C3 Server authentication Standard: admin

Section	Field	Description
	Password	Password for C3 Server authentication Standard: test
	Default Node	The default node to run C3 CORE channels on. If no node has been created yet, the plugin will create a node on localhost automatically.
	Test C3 Connection	Test your connection to C3.
Milestone Interface Configuration	Try Auto- Configuration	Try to find the best settings for Milestone configuration automatically (recommended)
	Host	IP or hostname of the Milestone Management Server
	Port	Port of the Milestone Management Server
	Auth. Type	Choose the authentication type. Currently only Windows is working properly with Milestone + Products
	Username	Username with which the C3 Server should log into Milestone XProtect to communicate Windows authentication is required (basic users are not supported)
	Password	Password for the above username
	Events Port	Port where Analytic Events can be sent to XProtect Standard: 9090 Be sure the port is activated.
	Test C3 Milestone Interface	Test if the connection to Milestone from C3 is successful.

After you have entered the necessary information click *OK* to confirm. Now it can take a few seconds to add the server as the following automatic tasks are performed for you:

- 1. Server connection is tested
- 2. Milestone Interface within C3 for communication is automatically generated.
- 3. Initial configuration is fetched from the C3 Server

Now you should have successfully added the C3 Server and you should see an empty Server view (if it is a fresh installation without any channels) and you are ready to create channels.

Milestone XProtect Management Client 2018 R3										- 0 ×
File Edit View Action Tools Help										
890 C B										
Site Nevigeton • • × C3		Server Information								* 8
Connection     Servers	C C) Server C C) Server C C) Server C C) Server Dens	ок ОК	<b>2</b>		sh statu	8				
Recording Servers     Ca Servers     Mobile Servers		System Overview	T 🔶	- Filter che	nnels			Add of	annel —	+ Add Channel
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Microphones     Speakers     Metadata		areal	Yes	DESKTOP-S1CE4S1	Offine	0,00%	0,00%	0	00.00.00	* ×
V Distput		areal2	Yes	DESKTOP-S1CE4S1	Offline	0,00%	0.00%	0	00.00.00	* ×
III III Clent		count <sup>vis 2 Chan count core</sup>	Yes	DESKTOP-S1CE4S1	Offine	0.00%	0.00%	0	00.00.00	* ×
Rules and Events     Rules		streat	Yes	DESKTOP-S1CE4S1	Offine	0,00%	0,00%	0	00.00.00	* ×
Time Profiles		object <sup>vis 1 Chan</sup>								
Analysis Forms     Greenic Events     Security     Nose     Basic Users     System Dashboad     Gurver Tasks     Greet Logs     Secure Tasks     Greet Logs		object	Yes	DESKTOP-SICE4S1	Offline	0.00%	0,00%	°	 111 chennel ^ Delete o	hennel
<ul> <li>Transfer Lorenza</li> <li>Transfer Andreau</li> <li>Transfer Andreau</li> <li>Transfer Andreau</li> </ul>	ප	fi mein C3 aver View	/	ellant Plu cenílgu	0	License nagement				< Show Video Shown

#### 5.2 Add CORE channel

To add a CORE channels simply click on the *New* button on the bottom of the *C3 Core Channels* view. A new dialogue will open and you will have to provide the following information:

🕼 Add Channel			_		Х
Configuration					
Product:	ArealVis - Standard				~
Name:					
Device Group:	DS				$\sim$
Camera:	areal				$\sim$
Open Edit Dialog on Save:					
· · · · · · · · · · · · · · · · · · ·		Save		Cance	4

Field	Description				
Product	<ul> <li>Choose the product you would want the channel to run. Options are</li> <li>arealvis (perimeter and areal security)</li> <li>countvis (people and object counting)</li> <li>objectvis (left and removed object detection)</li> </ul> For each option you can choose between a standard channel (full C3 channel) and a C3 CORE channel.				
Name	Choose a name for your channel (choose wisely)				
Device Group	Select the device group the chosen camera runs in				
Camera	Select the camera from the chosen device group				
Open Edit dialog on save	Check if you want to configure the channel immediately after creation. The plugin will open the edit dialogue automatically.				

After you have entered the necessary information you can click OK to start the channel creation process. The following things will then happen automatically:

- The channel will be preconfigured with the chosen camera and the standard configuration
- Two zones/rules will be added to the channel (if applicable to the product)
- The Milestone Event forwarding will be created and activated (only arealvis) for the channel
- The created zones/rules will be added to the Analytic Events of the XProtect systems in the following format
  - CHANNEL NAME RULE/ZONE X
- The created Analytic Events will be added as Milestone Alarms automatically



The channel will be started automatically and is ready for final configuration using the *Edit* mode.

#### 5.3 Configure a CORE channel

To configure an CORE channel select it within the *Core Channel View* and then right click and choose *Edit Channel* or click the 🖍 button on the right side of the channel. A new dialogue will open that will enable you to configure the channel.

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areal <sup>vis</sup> core	Save -	Edit Channel	C		0 ×	G		- 0 ×
			count <sup>vis</sup> core	Save - Edit	Channel	object <sup>vis</sup> cor	e Save -	Edit Channel
Channel Name:	areal	18-10-28 22:12:36.445	Channel Name:	stread boarts	273 78 ers			
Node:	DESKTOP-S1CE4S1	18 -			Status.	Channel Nam	e: object	
Groups:	- None - •	and the second s	Node:	DESKTOP-S1CE4S1	4	Not	DESKTOP-S1CE4S1	
Enabled:			Groups:	-Al- •		Group	e: None -	- Frank
Enabled:	No Yes		Enabled:	No Yes		Enable	d: No Yes	
	Stream Source - 320×180, Auto-generated by Mileston	one plu 🔉						
	Person Detection			Stream Source - 320×180, Auto-generated by Milestone plu	>		Stream Source - 320x240, Auto-generate	ed by Milestone plu
	Person Detection			Person Detection	>		Object Detection	,
	Rules - test core - Rule 1	>					equilibrium	•
				Counting Zones - street - Zone 1	>		Rules - Left Object	>
	Alerts - Milestone	>		Alerts - None	>		Alerts - None	
	© 2018 forlan gmbh						Alerts - None	>
				© 2018 forlan gmbh			© 2018 forlan gmbh	

As most things are done automatically on channel creation the most important things to define are:

- arealvis
  - Person Detection and Rules
- countvis
  - Person Detection and the Counting Zones
- objectvis
  - Object Detection and Rules

Everything else should be set for a first channel configuration.

### 6 Licensing

The CORE plugin does not need to be licensed and is free to use. After installing the C3 Server and at least one C3 Node you will be able to use all product features for 30 days after installation without any limitations. After the trial period you will need to license your channels. After a license is expired (also the trial) all channels will stop working and will not start without a new license.

To License the product you will need to complete the following steps:

- 1. Create a license request and download its ZIP file via the license management
- 2. Send the license request with your reference to <u>office@for-lan.at</u>



3. Upload the license file once you received it from us (IMPORTANT: upload the license file as you receive it, do not UNZIP!)

From within the XProtect Management Client click the *Licensing* to open the License Management.

OP-S1CE4S1 - (12.3a)  Sics  C3 Server C3 Server	C3 Server Information Manago  License Status: licen	eed					Licens
Site Information	PRODUCT	UNIT	CONFIGURED	LICENSED	AVAILABLE	EXPIRATION	
Recording Servers C3 Servers	anonym <sup>vis</sup>	Channels	0	99	99	-	
Mobile Servers vices	arealvis	Channels	0	99	99		
Cameras Microphones	count <sup>vis</sup>	Channels	0	99	99		
Speakers Metadata	facevis	Channels	1	99	98		
nput Dutput nt	gate <sup>vis</sup>	Channels	0	99	99	-	
ew Groups strix	object <sup>vie</sup>	Channels	0	99	99	-	
and Events	report <sup>via</sup>	Reports	0 🗟	99	99	-	
ne Profiles ofication Profiles er-defined Events	C3 Core	Channels	5	99	94	-	
yise Brents eric Events 6 Usens Dashboard en Tanka		Licensed to:	Forlan GmbH Kopernikusgasse 8 1060 Vienna Austria DEMO		Reference: –		
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The License Management dialogue will open and you will be able to see an overview of your licensing situation. To create a license request click *Manage*  $\rightarrow$  *Download license request*.

Manage <del>-</del>
Download
Upload lice

The sub dialogue will enable you to enter your customer information as well as enables you to select how many licenses you want to acquire for your license. CORE channel licenses are managed under C3 Core.

C3 Licensing Inform	nation							-	C >
Manage *	License Status: IIcensed	Download Canos	r I	Lie	cense Re	quest			Licens
	PRODUCT	Name:	Forlan GmbH			EXPIRATION			
	anonym <sup>VIS</sup>	Address:	Kopernikusgasse 8	Kopernikusgasse 8					
	ereel**	c	1060	1060 Vienna			-		
	count <sup>ive</sup>	c	Austria			-			
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	gate <sup>vis</sup> object <sup>vix</sup>	0				4	-		
	report <sup>vis</sup>	PRODUCT	UNIT		TNUC		-		
	C3 Gare	anonym <sup>vis</sup> C	Channel	•	- 99	+	-		
		areal <sup>vis</sup>	Channel	•	- 99	• 00 +			
		count <sup>ets</sup>	Channel	s [	- 00				
		face***	Channel	•	- 00				
		gato <sup>vis</sup>	Channel	s .	- 99	+			
		object <sup>ets</sup>	Channel		- 99	+			
		report <sup>vis</sup>	Reports		- 99 +				
		C3 Care	Charact	• ·	- 00	+			

If you entered all necessary information. Click download to download the license request (license\_request.zip). Use the system dialogue to find a proper place to save it. After you have sent the license request to <u>office@for-lan.at</u> after some time you will receive a license file back (ZIP). Use the ZIP file (don't extract) and upload it via the license manager. Using the command *Manage*  $\rightarrow$  *Upload license file*. After you have successfully uploaded the license file your system will be licensed.

### 7 Known Issues

- Error on Management Client or Smart Client start
  - If you get white configuration pages or the Web Client tab does not show any output please install Visual C++ 2015 redistributable package on Windows.
  - Changes in the Web-Client are not reflected in the Management Client Plugin
    - If changes in the Web-Client are made they are not automatically refreshed within the Management interface. Be sure to press the big refresh button before you continue working within the Management Client
- No Web (config pages stay white)
  - On some versions of Windows or with certain system restrictions the installer is not able to set the path variables properly. Please ensure that the following folders are set within the systemwide PATH variable of Windows:
    - C:\Program Files\Milestone\XProtect Management Client\MIPPlugins\C3ManagementPlugin\
    - C:\Program Files\Milestone\XProtect Smart Client\MIPPlugins\C3SmartClientBasePlugin\
    - C:\Program Files\Milestone\XProtect Smart Client\MIPPlugins\C3CountvisPlugin\

### 8 Support

If you face any problems please write us an email or call us in urgent cases.

Email: <u>office@for-lan.at</u>

Phone: +43 699 1997 1596