# Milestone User Guide 2021- [EN] XXII CORE - Smart City

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# [INTRODUCTION]

XXII CORE is a software solution designed to deploy artificial intelligence skills for realtime video streams analysis. Developed specifically to work in combination with a VMS (Video Management System), XXII CORE offers two user interfaces:

- **Settings** : to set up the Artificial Intelligence skills and associate them to camera streams.
- **Dashboard :** to provide analysis resulting from the detections made by the system.

XXII CORE offers two product variations :

- XXII Smart City
- XXII Smart Infrastructure

This user guide is for XXII CORE - Smart City.

# [GLOSSARY]

Before we get started, here is the glossary for the terms we will be using all along this user manual:

- **License**: The number of cameras on which you will be able to activate skills. Licenses are "floating" as they are not linked to a particular camera but to the total number of active cameras.
- **Skill** : Artificial Intelligence algorithm specifically trained for a use case. You can add and configure multiple skills on each camera.
- **Counting skills** : These skills send data to the dashboard only.
- **Detection skills** : These skills can feed data back to the VMS and the dashboard.
- **GPU (Graphics Processing Unit)** : Refers to the hardware dedicated the computations required by our Neural Networks (The Graphics term refers to the fact that this hardware is traditionally used for rendering computer graphics). The number of simultaneous video streams the system can handle is directly related to the power and number of its GPUs.
- VMS (Video Management System) : A video surveillance software like Milestone XProtect.
- **RTSP (Real Time Streaming Protocol)** : An application-level communication protocol for media streaming systems. It enables remote control of a media server, providing typical video player features such as "play" and "pause" and allowing time-based access.
- **Camera ID** : An identifier that Genetec gives to each camera added in the Genetec Config Tools software.
- **Camera GUID** : An identifier given by Milestone to each camera added in the XProtect Management Client software.

# [0] Milestone Set up

# [1] Technical requirements

Here is the list of technical requirements before continuing the installation, this list is for the R1 2021 version of XProtect Corporate :

Name	Description
Operating System	Microsoft® Windows® 8.1 Pro (64 bit)
	Microsoft® Windows® 8.1 Enterprise (64 bit)
	Microsoft® Windows® 10 Pro (64 bit)
	Microsoft® Windows® 10 Enterprise (64 bit)
	Microsoft® Windows® 10 IoT Enterprise LTSB (Long-Term Servicing Branch)2016 (version 1607 or later)
	Microsoft® Windows® 10 IoT Enterprise, version 1803 or later (64 bit), IoT Core
	Microsoft® Windows® Server 2012 (64 bit): Standard and Datacenter
	Microsoft® Windows® Server 2012 R2 (64 bit): Standard and Datacenter
	Microsoft® Windows® Server 2016 (64 bit): Essentials, Standard and Datacenter
	Microsoft® Windows® Server 2019 (64 bit): Essentials, Standard and Datacenter
	To run clustering/failover management servers, you need a Microsoft® Windows® Server 2012/2012 R2 Standard or Datacenter edition, Microsoft® Windows® Server 2016 Standard or Datacenter edition, or a Microsoft® Windows® Server 2019 Standard or Datacenter edition
File system	For the Recording Storage Location, NTFS file system is recommended
SQL Versions	Microsoft SQL Server® 2012 SP1
	Microsoft SQL Server® 2014
	Microsoft SQL Server® 2016
	Microsoft SQL Server® 2017
	Microsoft SQL Server® 2019 (Only supported on Microsoft® Windows® 10 or greater and Microsoft® Windows® Server 2016 or greater)

Software	Microsoft® .NET 4.7.2 Framework
	Microsoft® .NET Core 3.1.13 Framework
	DirectX 11 or newer
Hardware acceleration	Hardware acceleration with Intel® Quick Sync requires an Intel® CPU from 4th generation up to 11th generation, supporting Intel Quick Sync and Intel® GPU enabled in BIOS.
	Decoding with NVIDIA graphics card is supported with GPU capability version 6.x (Pascal) or newer.

To know the list of requirements for the other Milestone systems, go to this page:

Milestone Systems product system requirements

# [2] Milestone Open Network Bridge

# [a] Why does XXII Core need the Milestone Open Network Bridge?

XXII Core needs the Milestone Open Network Bridge in order to access the RTSP streams of the cameras recorded in the Milestone XProtect software. The RTSP streams are then read by XXII Core in order to perform the skills programmed by the user.

### [b] Download Milestone Open Network Bridge

Go to the Milestone download center at the following address :

Vos téléchargements Milestone Systems Download | Milestone Systems

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#### Then select Milestone Open Network Bridge and download it.

Milestone Open Network Bridge	2021 R2 (21.2a)	61.31 MB
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#### Click on "Save File" button



Then go to the Windows file explorer, then to the Download file.

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# [c] Install Milestone Open Network Bridge

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and then click on "Continue"

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Then select "This Account", and press "Browse".

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### Click on "Advanced"

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Enter the object name to select ( <u>examples</u> ):	
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# A new window will open and then click on "FindNow"

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Then select "Administrator" user and click "OK".

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Click on "OK".

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Now specify the management server, leave "localhost" in the text field and press "Continue".

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Choose language and p	oress "Cont	inue".			
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The installation program starts

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Once the installation is complete, click on "Close"

# [d] Check the Milestone Open Network Bridge status

Once the installation is complete, the Milestone Open Network Bridge is launched. You can check it in the Windows programs status bar :



Right click on the Milestone Open Bridge icon, then "Show [...] Bridge log"



Start Open Network Bridge service					
Stop Open Network Bridge service					
Restart Open Network Bridge service					
Configuration					
Manage ONVIF client users					
Show latest Open Network Bridge log		-	í -		
Show latest RTSP log	1				
About	G	<b>NB</b>			
Exit Milestone Open Network Bridge Manager					
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If the program is started correctly, then here is the screen.

### [e] Add the Milestone Open Network Bridge

Open the "Xprotect Management" program



Log in and click on "Connect



On the main page of the XProtect Management Client, click on "Server" in the left menu

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In the list of servers, choose "Open Network Bridge"



Right click and press "Add New"



2 Refresh

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#### Press "OK" to continue

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The Open Network Bridge is now correctly added

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# [f] Adding a Milestone user

On the left side of the screen, go to "Security", then "Basic User".

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#### Right click on "Basic Users", then click on "Create Basic User".



#### A pop-up window opens to add a user, enter your user information

User name:	
Description:	
	^
	~
Repeat password:	
Force Basic User to change password on next lo	gin
Force Basic User to change password on next lo Status:	igin
Force Basic User to change password on next lo Status: Enabled  v	igin
Force Basic User to change password on next lo Status: Enabled	igin
Force Basic User to change password on next lo Status: Enabled	igin

ober Hume.	
xxii	
Description:	
7	^
	ن
Panaward:	
Password:	
Password: Repeat password:	
Password: Repeat password: Force Basic User to	hange password on next login)
Password: Repeat password: iForce Basic User to Status:	hange password on next login)

Before continuing, uncheck the "Force Basic [...] Login" box

Force Basic User to change password on next login

Press "OK" to proceed

Allow Basi	c User to keep admin	istrator defined pa	assword	×
	Clearing the check be change their passwor and server services a	ox should only be do rd. These are system authentication.	one for user types th 1 users, for example	at cannot used for plugins
₽ <sub>3</sub>			AIL	Cancel

You have now added a Milestone user. A user is now available in the "Basic User" tab on the left side of the screen.

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XXII user :

Basic User	+	<b></b>
Name		1
🛃 xxii		

# [g] Creation of user roles

On the left side of the screen, go to "Security", then "Roles"

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File New Action Maintenance Tools Help		
0 9 0 • B		
Stellangther + 2 X Folm	• a Discription	• 4
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Then, select "Administrators" and after at the bottom of the screen, select "Users and Groups"

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8 9 0 • 8				
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# And finally "Add", then "Basic user"

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		S Windows user	
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		a basic user	
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# Select the newly added user

Select	Name				
	xxii				
New					
Ivew	2				
			ОК	Cancel	
			ОК	Cancel	
			ОК	Cancel	
lect Basic	Users to add to I	Role	ОК	Cancel	2
lect Basic Gelect user	Users to add to I	Role	OK	Cancel	
lect Basic Select user Select	Users to add to I	Role	OK	Cancel	
lect Basic ielect user Select	Users to add to I	Role	OK [	Cancel	*
lect Basic ielect user Select	Users to add to l	Role	OK [	Cancel	*
lect Basic Select user Select	Users to add to I : Name xxii	Role	OK [	Cancel	*
lect Basic Select user Select ☑	Users to add to I : Name xxii	Role	<u>OK</u>	Cancel	*
lect Basic Select user Select	Users to add to I : Name xxii	Role	OK [	Cancel	

Press "OK".

The user is now in the list of roles



### [h] Milestone Open Network Bridge user creation

In the Windows status bar, click on the small arrow on the right.



Right click on the Milestone Open Bridge icon, then "Manage [...] user..."



Add a new user and password, then press "Add user"

Jser name:	
xxii	
Password:	
•••••	
	Add user
ONVIF client users	N
	Remove user

The user is then visible in the list, press "Ok", then "Yes"

	♦ Manage ONVIF client users ×	
	User name:	
	Password:	
	Add uner	
	ONVIF client users	
	2001	
	Remove user OK Cancel	
	♦ Manage ONVIF client users ×	
	Password:	
	ONV/E client users	
Apply char	nges	3
	Applying changes to the ONVIF client users list will restart services. Do you want to continue?	the
	Yes No	F.
	Remore user	
	1.00	

Mileston	e Open Network Bridge Manager	×
1	Applying the changes was successf	ul.
	ОК	

# [i] Add Registry

In the Windows search bar, type "Registry Editor" and select the program below:



On the home page of this program, add a new registry key to Path :



Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Milestone\Milestone Open Network Bridge\

DWORD value: SHA256Auth

Value to disable SHA256: 0

Then, open the following sub-menus:

- HKEY\_LOCAL\_MACHINE
- Milestone



Then right click on "Milestone", move the mouse to "New" and press "Key".



A new key is added, with the default name "New Key #1".

V Milestone Installation > ServerConfigurator XProtect Log Server New Kr Expand Mozilla 5 New mozilla.or > > ODBC Find... 5 Partner 5 Delete Policies 5 Registerec Rename 13 Setup 5 Export VideoOS 5 Permissions... WOW6432 5 SYSTEM Copy Key Name HKEY USERS

Then, right click on "New Key #1" and press "Rename".

Rename it with the name "Milestone Open Network Bridge".

Then right click on the same folder "Milestone Open Network bridge". Then move the mouse over "New" and click on "DWORD (32-bit) Value".



### On the top of the screen, a new line has been added:

Name	Туре	Data
ab (Default)	REG_SZ	(value not set)
New Value #1	REG_DWORD	0x00000000 (0)

Rename the line "New Value #1" added to "SHA256Auth"

Name	Туре	Data
(Default)	REG_SZ	(value not set)
BHA256Auth	REG_DWORD	0x00000000 (0)

#### Right click on "SHA256Auth" and press "Modify"

Name	Туре	Data
ab) (Default)	REG_SZ	(value not set)
RHA256		2.0000000 (0)
	Modify	0000000 (0)
	Modify Binary Data	
	Delete	
	Rename	

Check if the "Value data" is set to 0. If not, enter "0" and finally, press "OK".

Edit DWORD (32-bit) Value	: ×
Value name:	
SHA256Auth	
Value data:	Base Hexadecimal Decimal
	OK Cancel

# [j] Milestone Open Bridge re-start

Right click on the Windows button, then press "Task Manager".



### Click on "Services"

Processes Performance Users (	Details Services			
~		59%	63%	
Name	Status	CPU	Memory	
Apps (6)				í
Administration Client		0%	194.8 MB	
> 💽 AnyDesk (32 bit)		0%	24.0 MB	
AnyDesk (32 bit)		11.3%	72.6 MB	
Notepad		0%	1.9 MB	
🙀 Task Manager		7.7%	15.8 MB	
🔺 VLC media player		0%	10.2 MB	
Background processes (40)	)			
INET Core Host		0%	118.9 MB	
AnyDesk (32 bit)		1.4%	23.9 MB	
AnyDesk (32 bit)		0%	21.9 MB	
Application Frame Host		0%	3.2 MB	
COM Surrogate		0%	2.5 MB	
CTF Loader		0%	10.3 MB	

#### Look for the line "Milestone Open Network Bridge", then right click and press "Restart".

Nanager					- U X
File Options View					
Processes Performance Users	Details	Services			
Processes Performance Users Name LanmanServer LanmanWorkstation Ifsvc LicenseManager Itdsvc Imhosts LSM MapsBroker Milestone Open Network B Milestone RTSP Service Milestone XProtect Data Co	Details PID 2516 1752 4816 680 932 4560 32 6224 7894	Services Description Server Workstation Geolocation Service Windows License M Link-Layer Topolog TCP/IP NetBIOS He Local Session Mana Downloaded Maps Milestone Open Ne Milestone RTSP Ser Milestone XProtect	e Manager Service Jy Discovery Map Iper ager Manager Etwork Bridge vice	Status Running Running Stopped Stopped Running Running Running Running Running Running	Group smbsvcs NetworkService netsvcs LocalService LocalService LocalServiceN DcomLaunch NetworkService
File Options View Processes Performance User	; Details	Services			
Name	PID	Description			
Gammanworkstation Gammanworkstation LicenseManager Galltdsvc Galmhosts GaLSM GampsBroker	2516 1752 4816 680 932	Server Workstation Geolocation Servic Windows License I Link-Layer Topolo TCP/IP NetBIOS H Local Session Man Downloaded Maps	:e Manager Service gy Discovery Map elper ager s Manager	Status Running Running Running Stopped Stopped Running Stopped	Group smbsvcs NetworkService netsvcs LocalService LocalService LocalService N DcomLaunch NetworkService

MozillaMaintenance Mozilla Maintenance Service Note: If the service does not restart automatically, do a right click and press "Start". Then go to the XXII Core Settings.

Stopped

12

# [3] Events, alarms and rules creation

This part is dedicated to alarms and events creation. Thanks to it, XXII Core will send information (events or alarms) to the Milestone VMS.

### [a] Analytics events creation

On the left side, look for the "Rules and Events" section, then select "Analytics Events"



Right click on "Analytic Events" and then press "AddNew ..."



The middle section of the screen is now available. Enter the name and description of the desired event.

The event name must be similar to the VMS ID in XXII Core, it must contain only numeric characters.

Asalytics Events 🔶 🛛	Analytica Events Information		- 0
Acutytes Event     Acutytes Event	Hane: [2011		3
		Self-wet.	
	Description		-

The event description is not mandatory. You can enter a description that will help you to remember on which camera this event is. For example: EVENT 2201.

Analysics Events 🔹 0	Analytics Events Information	
El 🍷 Analytics Events	Norm	
	(229)	
	Eventpaer	1

Then save the event.

Milesto	ne XProtect Manage	ement Client 2021 R2		×
?	Do you want to sav	ve changes?		
₿ <sub>₽</sub>		Yes 📐	No	Cancel

The event is now on the list.



[b] Alarms creation

On the left side, look for the "Alarms" section, then select "Alarm Definition"

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an anna secola			
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the Manual of Administration (Second			

Right click on "Alarm Definition", then press "Add New ..."



The middle section of the screen is now available. Enter the relevant informations into it :

- Name
- Instructions
- Triggering event

S & Mann Deferiose & Rann Deferition	Nam defettor Brable	3	
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	Too profie:	Image	*
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		Sec.	Select
	Map		
	O An dam only appears on the s	nationap if at least one source of the slares is a carrent, an input device, or a microphone.	
	Alem manager view.	C Stating	

In the "Name" section, enter the same number as for the analytics event seen previously

In the "Instructions" section, enter a hint that will help you remember which camera this alarm is. For example: ALARM 2201

Nam definition		
Enable:		
Name	2201	
Instructions	ALARM 2201	-
	<b>Q</b>	4

In the "Triggering event" section, in the first drop-down menu, select "Analytics Event".

Trigger		
Triggering event:	Appears Control Event Categories	~
Sources:	Anatos Evento Dexise Evento Exemp Evento Hadvaes Evento	
Activation period	Peccenting Server Events Syndem Events	
Time profile:	System Montro Events Transaction events	_
C Event based:	Sant 2011	F.
	26p	

Then, in the second drop-down menu " Sources ", select the analytical event previously set up.

Triggering event:	Analytics Events	با ب
		Ψ.
Sourcee	= <sup>2201</sup> b	Sad

#### Then, press "Select"

Trigger		
Triggering event:	Analytics Events	
	2201	×
Sources:		Silipe

A new pop up window opens, press the "+" button until you see the camera you want to analyze. Here, the camera named "AxisQ6075".

ype filter: All	~
Groups Servers	Selected:
⊞∭ XXII-SRV-MLS-DE	Add
	Remove

Select Sources		×
Type filter: All	~	
Groups Servers	Add	Selected:
Select Sources	~	OK Cancel
Groups Servers 		Selected:
	Add Remove	

Select the camera here "AxisQ6075" and then press the "Add" button. The camera is added to the "Selected" menu

	2
~	
	Selected:
1	AXIS Q6075-E PTZ Dome Network
Ad	
Remove	
	Ad Los Remove

Press "OK", the pop up window closes.

Varm Definition Information			
Alarn definition			
Enable:			
Name:	2201		
Instructions:	ALAFIM 2201		<u></u>
Trigger			
Tropering event:	Analytics Events		Ŷ
	2201		v.
Sources	AXUS G6075 E PTZ Dome Network Camera (192.168.1.119) - Carresa 1		Select
Activation period			
Time profile:	Alwaja		~ ~
O Event based:	Stat		given
	Stop.	b.	Seed
Мар			
Alarm manager view:	O Smart map		
	) Map		
Related map:			*
Operator action required			
Time limit:	1 minute		~
Events triggered			Select_
Other			
Related cameras:			Select_
initial alarm owner:			U.
Initial alarm priority:	1: Hah		0
Alam category:			~
Events triggered by alarm			Select
Auto-close-diam/			
Alam assignable to Administrators:			

Save this alarm. It is now displayed in the left menu.

i diam Definitions			
JE 2003	Aiam definition		
Le	Enable:	12	
	Name	2201	
	heructions	ALARM Z201	~
	Tapper		
	Tragening event.	Analysis Events	Ŷ
		2201	÷
	Sources	AXIS G5075 E FTZ Outre Network Canesa (192.168.1.11%) - Canesa 1	Select
	Activation period		
	Time profile.	Anajs	e)
	C Evertbased	Set	Invest
		Dat.	Tania (
	Map		
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	Operator action required		
	Time lent	Innute	Ψ.
	Events tiggered		Select
	Otw		
	Related caneras:		Select
	bital alam swner:		Ý
	Initial alam privity:	1.Hgh	Ÿ
	Alam cubegory:		×
	and the second se		Select
	Events toggered by asers		
	Events triggend by asam. Automatic adars	0	

# [c] Rules creation

On the left side, look for the "Rules and Events" section, then select "Rules".

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B Ant Chevids Concentration C International Concentration ( C International Concentration) C International Concentration	
[9] Made Series     [9] Made Series     [9] Adde Series     [	
Come     Control     Contro     Control     Control     Control     Control     Contr	
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B Sur Mu O Moc Grane Ø Sur Clant Volka	
∯ Maganal Gert Hillis 12 Mag Billion II and	
I have a charter of the second s	
See Balancian Publica See Bana Control (Junno 1997)	

Right click on "Rules" and then press "Add Rule ... "



A new pop up window opens. Enter the relevant information into it:

- Name
- Description

Varne:	New Role 001			
Description:				
Active				
	Step 1: Type of rule	N		
Select the rule t	ype you want to create	N3.		
Perform an a	ection on sevents			
O Perform an	sction in a time interval			
O Perform an :	ction on a crecurring time>			
Edit the rule de	scription (click an underlined item)			
Periom an actu	a co avant			-
from device	indification perver/inspacement server			
INVIT SECTION	INTEGRATING PRETURING SPECIFIC STRUCTURE			

# In the "Name" section, enter the rule name. You can enter any name.

				1	×
larre:	ALARM	2201			
Jescription:	12				
Karve.		0	n 1: Turn of esti-	 	 
Perform an	oction in 5 time action on a 4re	curring time>			
Edit the rule de Perform an action	scription (click on on <u>event</u>	an underlined item)	- 1312 (S		 _
Edit the rule de Perform an acti from devic	scription (click on on <u>event</u> esc/recording	an underlined item) server/managemen	d server	 	

# then, in the "Edit rule description" menu, press "Event".

Manage Rule					-		$\times$
Name:	ALARM	2201					
Description:							
Active:							
		Ste	p 1: Type of rule				
Perform an a	ction in a time ction on a <re< td=""><td>curring time&gt;</td><td></td><td></td><td></td><td></td><td></td></re<>	curring time>					
Edit the rule des Perform an action	cription (click	an underlined item)					_
from device	s/re <del>coting</del>	server/manageme	nt server				
]							
Help		<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >		Einish	
A pop up window opens to select the rule associated event. Press the Analytics Events "+" buttons until you find it, then "OK".

ame:	ALARM 2201				
escription:					
tive:	Select an Event			×	
Select the rule t Perform an a Perform an a Perform an a	Cvents     Hardware     Hardware     Devices     Ces     Recording Servers     System Monitor     Other     Analytics Events				
dit the rule des reform an action from <u>device</u>	3	ОК	Cancel		
Help	Cancel	< <u>B</u> ack	Next >		<u>F</u> inish
Help elect an Eve	<u>C</u> ancel	< <u>B</u> ack	<u>N</u> ext >		Einish

0

Cancel

The event is associated with the rule. Then press "device/recording server/management server".

lanage Rule					-		×
ame:	ALARM 2201						
escription:							
tive:							
Select the rule : Parform an : Perform an : Perform an :	type you want to creat action on <event> action in a time interv action on a <recurring< th=""><th>step al time&gt;</th><th>1: Type of rule</th><th></th><th></th><th></th><th></th></recurring<></event>	step al time>	1: Type of rule				
dit the rule de <sup>2</sup> efort device fror device	scription (click an unc source of the server screening server	Jerlined item) Interition r/managemen	<u>t server</u>				
Help		Cancel	< Back	Next >		Finish	

A pop up window opens to select the associated cameras. Press the Cameras "+" buttons until you find it.

Theorem and the servers	Selected:	
Cameras All cameras DEMO Microphones All Microphones All Microphones All Microphones Metadata Metadata Mitrophones All Speakers Metadata Mitrophones All And All Paekers Metadata All Input Output All Output	C Add > Remove	

Select it and then, press "Add" so that the camera is added on the right side of the pop up window. When all cameras are added. Press "Ok".

Device Groups Recording Servers	Jen	2.100.
Cameras Cameras Cameras DEMO Cameras DEMO Cameras Microphones Cameras Microphones Cameras Microphones Cameras Microphones Cameras Microphones Cameras Microphones Cameras Microphones Cameras Microphones Microphones Cameras Microphones Microphones Cameras Microphones Microphones Cameras Microphones Microph	Add >	AXIS Q6075-E PTZ Dome Network Camera (192

Then, press "Perform an action <event>", then press "Next"

					-	Х
Name:	ALARM	1 2201				
Description:	1					
Active:						
		Ste	p 1: Type of rule			 
Edit the rule de	scription (clic)	c an underlined item) alytics Events)	(102 100 1 110) Came			
from AXIS G	DU/DE EL/ U			a		
from <u>AXIS G</u>	0073-E F 12 U		(192,100,1,119) - Galilei	<u>a  </u>		

### On the Step 2 "Conditions", do not check anything, then press "Next"

Manage Rule		-		×
Name: Description:	ALARM 2201			
Active:				
Select conditions to Within selected ti Outside selected Within the time p Day of week is < While failover is While failover is Event is from <m< td=""><td>apply me in <time profile=""> time in <time profile=""> eriod <start time=""> to <end time=""> day&gt; active inactive otion window&gt;</end></start></time></time></td><td></td><td></td><td></td></m<>	apply me in <time profile=""> time in <time profile=""> eriod <start time=""> to <end time=""> day&gt; active inactive otion window&gt;</end></start></time></time>			
Edit the rule descript Perform an action on from <u>AXIS Q6075</u>	ion (click an underlined item) 2201 (Analytics Events) -E PTZ Dome Network Camera (192.168.1.119) - Camera 1			
Help	Cancel < Back Next >		Finish	

### On the Step 3 "Actions", do not check anything, then press "Next"

Manage Rule		-		$\times$
Name:	ALARM 2201			
Descution:				
Active:				
Salast actions to pa	Step 3: Actions			
Start recording o Start feed on <de Set <smart wall:<br="">Set <smart wall:<br="">Remove <camer Set live frame ra Set recording fra Start patrolling o</camer </smart></smart></de 	n <devices> vices&gt; &gt; to <preset> &gt; cmonitor&gt; to show <cameras> &gt; <monitor> to show text '<message>' as&gt; from <smart wall=""> monitor <monitor> te on <devices> me rate on <devices> me rate to all frames for MPEG-4/H.264/H.265 on <devices> n <device> using <profile> with PTZ <priority></priority></profile></device></devices></devices></devices></monitor></smart></message></monitor></cameras></preset></devices>			•
Edit the rule descrip Perform an action on from <u>AXIS Q6075</u>	tion (click an underlined item) 2201 (Analytics Events) E PTZ Dome Network Camera (192.168.1.119) - Camera 1			
Help	Cancel < Back Next >		Finish	

On the Step 3 "Actions", check the box "Create bookmark on <devices> and press "Next"

Aanage Rule						×
Name:	ALARM 2201					
Description:		3				
Active:						
		Step	p 3: Actions			
Select actions     Pause patro     Move <devi <="" <devi="" audio-="" bool="" create="" make="" move="" new="" notific="" play="" plug-in="" plug-in<="" send="" start="" stop="" td=""><td>to perform viling on <devices> viling on <devices> viling ault preset on <devices putput to <state> vinark on <devices> vinark on <devices> ation to <profile> dog entry&gt; n on <devices> on <devices></devices></devices></profile></devices></devices></state></devices </devices></devices></td><td>n with PTZ <pric &gt;&gt; with PTZ <pri s&gt; with <priority< td=""><td>ority&gt; ority&gt;</td><td></td><td></td><td>*</td></priority<></pri </pric </td></devi>	to perform viling on <devices> viling on <devices> viling ault preset on <devices putput to <state> vinark on <devices> vinark on <devices> ation to <profile> dog entry&gt; n on <devices> on <devices></devices></devices></profile></devices></devices></state></devices </devices></devices>	n with PTZ <pric &gt;&gt; with PTZ <pri s&gt; with <priority< td=""><td>ority&gt; ority&gt;</td><td></td><td></td><td>*</td></priority<></pri </pric 	ority> ority>			*
Edit the rule de Perform an actic from <u>AXIS C</u> Create bookman	scription (click an unde on on <u>2201 (Analytics Ex</u> 16075-E PTZ Dome Net k <u>Bookmark</u> on <u>devic</u>	erlined item) rents) work Camera (19 res	92.168.1.119) - Came	<u>ra 1</u>		
Help	C	ancel	< Back	Next >	Finisł	1

Then press "Boomark" on the "Create bookmark" line to modify the bookmark text



A pop up window opens. Press "Device name" then "Event Name" then "Trigger Time" then "Rule Name" then "Recorder Name" and leave the Pre-bookmark time set at 10s and Post-bookmark time set at 30s by default then click on "OK"

Name\$\$TriggerTime\$\$RuleName\$\$RecorderName\$	
2	
	0
Pre-bookmark time (seconds)	10 🖨
Post-bookmark time (seconds)	30 🗢
n (click links to insert variables in bookmark text)	
	Name\$\$TriggerTime\$\$RuleName\$\$RecorderName\$

Then press "devices" to select a source

Manage Rule		-		×
Name:	ALARM 2201			
Description:				
Active:				
Select actions to pe	Step 3: Actions			
Pause patrolling Move <device>t Move to default Set device outpu Create bookmar Play audio <mee Send notification Make new <log e<br="">Start plug-in on Start plug-in on</log></mee </device>	on <devices> o <preset> position with PTZ <priority> preset on <devices> with PTZ <priority> to <state> kon <devices> sage&gt; on <devices> with <priority> to <profile> entry&gt; <devices> <devices></devices></devices></profile></priority></devices></devices></state></priority></devices></priority></preset></devices>			
Edit the rule descrip	tion (click an underlined item)			_
Perform an action or from <u>AXIS G607</u> Create bookmark <u>SL</u>	2201 (Analytics Events) E PTZ Dome Network Camera (192,168,1,119) - Camera 1 eviceName\$\$EventName\$\$TriggerTime\$\$RuleName\$\$RecorderName\$ o d	evices		
Help	Cancel < Back Next >		Finish	

### Then select "Use devices from metadata" and validate "OK"



#### Then press "Finish".

Manage Rule					- C	X
News		2201				
Name:	ALARM	2201				
Description:	13					
Active:	$\checkmark$					
		S	Step 3: Actions			
Select actions to p	erform					
Pause patrollin	g on <devic< td=""><td>es&gt;</td><td></td><td></td><td></td><td>^</td></devic<>	es>				^
Move <device></device>	to <preset:< td=""><td>position with PTZ &lt;</td><td>priority&gt;</td><td></td><td></td><td></td></preset:<>	position with PTZ <	priority>			
Move to default	preset on a	devices> with PTZ <	priority>			
Set device outp	out to <state< td=""><td>&gt;</td><td></td><td></td><td></td><td></td></state<>	>				
Create bookma	ırk on <devi< td=""><td>ces&gt;</td><td></td><td></td><td></td><td></td></devi<>	ces>				
Play audio <me< td=""><td>essage&gt; on</td><td><devices> with <prio< td=""><td>rity&gt;</td><td></td><td></td><td></td></prio<></devices></td></me<>	essage> on	<devices> with <prio< td=""><td>rity&gt;</td><td></td><td></td><td></td></prio<></devices>	rity>			
Send notification	on to <profile< td=""><td>e&gt;</td><td></td><td></td><td></td><td></td></profile<>	e>				
Make new <log< td=""><td>entry&gt;</td><td></td><td></td><td></td><td></td><td></td></log<>	entry>					
Start plug-in on	<devices></devices>					
Stop plug-in on	<devices></devices>					~
Edit the rule descri	iption (click	an underlined item)				
Perform an action of	n 2201 (An:	alutice Evente)				
from AXIS Q60	75-E PTZ D	ome Network Camera	(192.168.1.119) - Came	ra 1		
Create bookmark \$	DeviceNam	e\$\$EventName\$\$Trig	gerTime\$\$RuleName\$\$	RecorderName\$ on the	e devices f	rom metac
1<						>
Help		Cancel	< Back	Next >	F	inish

Your rule will then appear in the rules list.



# [I] Settings

## [1] Authentification

You can access XXII CORE - Smart City via the following url :

1 smartcity.xxii-core.io:32080				
		Login		
	Account name			
	Password			

You can enter your username and password provided during installation (*if you don't have this information, please send an email to support@xxii.fr*).

Once the authentication is completed, you will be directed to the home page.

## [2] Home Page

On this page, you will find the following items:

- License management
- GPU monitoring
- Create folder
- Add camera
- Context menu (top right)

		settings	
Licence management			
CPU 1999 ()			
D - Cresta Folder	+ Add carrant		
D versier			
🗅 uur culte 2			
D Uner Cubler 3			
🗅 User Guiles 🔺		St and a	
🗅 Uner Culete S			
🗅 Uner Gulais B			
🖸 Univ Guidan T			
		<u> </u>	

#### [a] License management

XXII CORE - Smart City works with a floating license system. A license refers to a video stream coming from a camera. On this image we can see that the user has bought 10 licenses and that 7 licenses are still available ; the user has therefore 3 licenses in use. If you deactivate a camera, your number of available licenses increases accordingly. Similarly, if you activate a camera, the number of available licenses will decrease. Below the "License Management" text you will find the licence's expiration date. All your licenses expire on the same date.



(Contact XXII's sales department before your licenses expire).

### [b] GPU Monitoring

On each camera, you can add skills. Moreover, each new active stream coming from a camera uses part of the available GPU resources; the GPU usage capacity gauge will therefore increase or decrease depending on the activation or deactivation of the cameras.

During the pre-sales phase, an Expert XXII will estimate the hardware requirements of the dedicated server according to your needs. Each server will therefore have a unique GPU usage score.

For example, if your server has a score of 1000 and each stream consumes 100 GPU usage points, you will be able to activate a maximum of 10 streams on 10 different cameras.

The GPU usage capacity gauge will fill up by 10% every time a new stream with at least one skill is activated.



GPU usage is dependent on the number of active streams, not skills. Activating multiple skills on the same stream will not increase GPU usage.

### [c] Create Folder

You can create folders associated to your cameras. When you press the following button a folder is created and placed at the bottom of your folder list. A new folder is named "New Folder". In case a folder has already the name "New Folder", the system generates new folders by adding consecutive digits. As an example, clicking on the button twice will generate two new folders named "New Folder" and "New Folder 1".



### [d] Erase folder

If you want to delete a folder, press the button to the right of the folder name:



Then press "Delete Folder":



 $\checkmark$  Be careful, you cannot delete a folder that contains one or more cameras regardless of whether they are active or inactive. You must therefore move from or delete all the cameras of a folder to be able to delete it  $\checkmark$ 

### [e] Rename a folder

If you want to rename a folder, press the button to the right of the folder name:



Then press "Rename folder":



▲ Warning, you can put several times the same name for a folder. Any character is allowed in the folder's name. ▲

### [f] Cameras indication in folders

To the right of the name of each folders, before the context menu, you can see two numbers .



These two numbers indicate :

- The number of cameras in the folder
- The number of cameras for which the switch is on "activated".

### [g] Add a camera

You can add streams (camera) by pressing the following button. You can add as many cameras as you want whatever the number of licenses you have purchased. Licenses are only consumed if your skills are enabled.



### [h] Context menu

Through this menu you can:

- View your account settings
- Log out of Smart City software



## [3] XXII CORE - Smart City Settings

For your account's informations, click in the menu at the top right, then click on "Account".



### [a] Tabs

At the top of the page you will find the tabs:

- Languages
- VMS Settings
- Dashboard
- Maintenance
- Help

Language	VMS Settings	Dashboard	Maintenance	Debug	Support
----------	--------------	-----------	-------------	-------	---------

### [b] Languages

XXII CORE - Smart City is available in English and French.

Language	VMS Settings	Dashboard	Maintenance	Debug	Support
English					

### [c] VMS Settings

In the "VMS parameters" section you have to choose the VMS you will be using. Depending on the chosen VMS, the information to be entered will be different.

Language	VMS Settings	Dashboard	Maintenance	Debug	Support
ALERT FEEDBAC	K (VMS) Disable	d Enabled			
Milestone					
192. :90	090/WebSdk				

#### [I] Milestone

- Server host URL
  - Enter the IP address of the machine where the VMS is located
  - Enter the WebSDK port; default : 9090

### [d] Dashboard

Coming soon.

#### [e] Maintenance

- Restricted to SuperAdmin
- Il est seulement possible de modifier le statut des composants dans le dossier "default". Dans les autres dossiers, vous pouvez seulement visualiser l'état et non relancer les composants. The words circled in red, correspond to folders inside the XXII machine. You can only modify the status of components in the "default" folder. In the other folders, you can only view the status and not restart the components.

To restart a component, press the button located on the right of its name:



- This page allows you to check the System components status through three statuses :
  - Running : the component is functional, nothing to report
  - Pending : the component is starting, wait a few minutes
  - Error : the component is in error, press on the picto to restart it
- The "Refresh" button allows you to update the components name

Language	VMS Settings	Dashboard	Maintenance	Debug	Support		
COMPONENTS	STATE					S F	efresh
cert-manaj default 丶	ger >						
• docker	-registry-58c6989dc5	-rghxt					c
• docker	-registry-proxy-kube	-registry-proxy-w	rr56				c
• platfo	rn-composer-v2-7bc46	89fdf-lm5k4					S
• platfo	rn-composer-v2-watch	er-59b5ff59fc-gml	9m				C
• platfo	rn-mediamanager-8						S
platfo	rn-mediamanager-1						C

### [f] Help

- Restricted to SuperAdmin
- Help Page with XXII support information
  - Mail : <u>support@xxii.fr</u>
  - Phone : +33 (0)1 84 20 48 22

		Settings
Account	Language VMS Settings Disphoseid Maintenance Disbug <b>Support</b>	
Licence management () 104 solution () 104 solu	0	
CPU Unge ()	Telephone number 01 84 20 48 22 Carry In stational	
	Support e mail asdress. Support@xxii.fr Cana its chatered	

## [4] Add a camera

If you want to add a camera, press the "Add Camera" button on the home page; the "camera import" page then opens.



Add a camera Fill out the necessary informations			Camera group 💿	User Guide 1	•
Camera name					
Enter name					
Framerate (2)	Detection threshold				
	04				
URL 💿	Or lookup the URL by the camera logi	cal ID			
rtsp.//_					
Automatic skill stop - PTZ Camera					
Disabled Enabled					

### [a] Simple import

#### On this page you can:

- Name your camera (required)
- Enter the number of frames per second of your camera restricted to SuperAdmin (not mandatory)
  - The default value is 12, if nothing is filled in
  - Value corresponding to the number of images per second processed by XXII Core for this camera
- Enter the detection threshold restricted to SuperAdmin (not mandatory)
  - The default value is 0,4, if nothing is filled in
  - Value corresponding to the objects detection limit
    - The closer the threshold is to 0.1, then more objects are detected, but with an increased risk of false detections
    - The closer the threshold is to 0.9, then it allows a higher quality of the detections, but with an increased risk of missed detections
- Enter the URL of your camera's RTSP feed (required)

Once all required fields are filled, click on the "add camera" button at the bottom of this window. The camera is then displayed on the right side of the screen.

### [b] Multiple Imports

If you want to add another camera, you have to repeat the steps described above in the "Simple import" section. You can add as many cameras as you want. The number of cameras can be found in the tooltip on the right of the "Camera group" title.

▲ Be careful, cameras can be added to one folder only at a time. The name of the cameras folder is shown in the top right corner of the image. All available folders are displayed if you click on it. ▲

Once your choice has been made press the "Confirm import" button to add all cameras to the folder. You will be able to move the cameras to another folder via the home page.

### [c] Moving a camera

To move a camera from one folder to another, press the button to the right of the camera name:



Then press "Move Camera to ...":



And choose the destination folder. You can do this as many times as necessary.

### [d] Delete a camera

To delete a camera, press the button to the right of the camera name:



▲ You can delete a camera while skills are configured inside. If this happens, the skills will be automatically disabled, then deleted.

## [5] Skill configuration

To set up a skill, open a folder containing at least one camera and click on that camera. A static image grabbed from the camera's stream at the moment the camera's menu was first opened will be displayed. You may refresh this image by clicking on the icon in the upper right hand corner.



Clicking on the "+ Add Camera" button on the right side of your screen displays the configuration panel of a skill.





#### Summary of the fields to be filled in :

• Give a name to your skill



Note: if you do not fill in any text in this field before selecting a skill, the skill name automatically fills in this field.

Choose a skill type (Detection and Counting are the choices available)
 *A* The choice of the skill type is mandatory *A*



Configuration		Skill selection	
Configuration nam	le	Detection	>
		Counting	>
SKIII	0 >		

Configuration		Skill selection	
Configuration name		Detection	~
		Attendance limit gauge	
Skill	() >	Clustering	
Type / Category	<ul> <li>&gt;</li> </ul>	Clustering	
Zone	>	Forbidden zone to pedestrians	
Temporality	<ul> <li>&gt;</li> </ul>	Forbidden zone to vehicles	
Genetec ID	() >	Illegal dumping	
		Illegal parking	
		Loitering	
		Red light running	
Save		Train track crossing	
		Wrong way	0

Skill selection	
Detection	>
Counting	~
Forbidden zone to pedestrians	
Forbidden zone to vehicles	

• Define a type / category



### Define an area in the image for this skill (mandatory section)

•

Configuration	Zone definition			
Configuration name	ြ <sup>ာ</sup> Full frame	0		
Skill () >	> Polygon			
Type / Category 📀 >	/ Line			
Zone 📀 >				
Temporality 📀 >	Define zone			
Genetec ID () >				

### • Define a timeframe for this skill (optional)

Configuration		Event temporality				
Configuration parr		Detection alert				
		Trigger an alert after 0 seconds				
Skill	<u>()</u> >					
Type / Category		Notification				
		<ul> <li>Each detection (alert)</li> </ul>				
Zone		O Maximum every second				
Temporality	60 N					

### • Enter a VMS ID for this skill (mandatory field if you are using a Detection skill)

Configuration		Event ID
Configuration name	B	e.g.: 1234
Skill	() >	
Type / Category	<ul> <li>&gt;</li> </ul>	
Zone	<ul> <li>&gt;</li> </ul>	

### [a] List of skills

XXII CORE - Smart City gathers a set of skills classified in two types: Detection and Counting. You will find a description and a functional diagram of all the skills available in the platform below:

### **Detection** :

- Red light running :
  - This skill makes it possible to identify the color of the traffic lights and the respect of stops according to the types of vehicles.
- <u>Illegal dumping :</u>
  - This skill makes it possible to detect static vehicles dropping trash in an area.
- Train track crossing :
  - This skill makes it possible to identify unauthorized persons on the railroad in real time.
- <u>Attendance limit gauge :</u>
  - This skill makes it possible to detect when a gauge (threshold) is exceeded in a public place.
- Loitering:
  - This skill makes it possible to identify in real time if a person is in an area for more than a user-defined amount of time.
- <u>Clustering :</u>
  - This skill makes it possible to evaluate the number of humans present in an area. An alert is triggered when the set threshold is exceeded.
- Wrong Way :
  - This skill makes it possible to identify in real time the different types of vehicles circulating on the roadway and to ensure that the direction of traffic is respected.
- Illegal Parking
  - This skill makes it possible to identify in real time the different types of vehicles not authorized to circulate in certain zones.
- Forbidden zone to pedestrians
  - This skill is used to identify in real time if one or more unauthorized persons enter a forbidden zone.
- Forbidden zone to vehicles
  - This skill makes it possible to identify in real time the different types of vehicles not authorized to circulate in certain zones.

#### Counting :

- Vehicle counting :
  - This skill makes it possible to measure in real time the frequentation on your roads according to the periods.
- <u>Pedestrian counting :</u>
  - This skill makes it possible to know in real time the frequentation of your urban space.

### [b] Detection skills

Once you have entered the name of the skill, you can proceed to the choice of the skill. Select the "Detection" skill type (the "Counting" skill types are explained in a section below).

Configuration	Skill selection	
Forbidden zone to pedestria	Detection	~
	Attendance limit gauge	
Skill 🔗 >	Clustering	
Type / Category 📀 🚿 🔗		
Zone 🥥 >	Forbidden zone to pedestrians	0
Temporality <	Forbidden zone to vehicles	
Genetec ID () >	Illegal dumping	
	Illegal parking	
	Loitering	
	Red light running	
Save	Train track crossing	
	Wrong way	

#### i. Example: Polygon detection (geometric shape)

As an example, select the Forbidden zone to pedestrians skill (Skill > Detection > Pedestrian Zone Management).



Then select the class(es) you want to detect. By default as it is a forbidden area for humans, the human box is already selected.

Configuration	Object type selection	
Forbidden zone to pedestria 📗	🛉 Human	<b>~</b>
skill 📀 >	🖨 Car	
Type / Category 🥪 >		
Zone  Zon	🛱 Bus	
Genetec ID () >	ැති Motorbike	
	ക്ക് Bicycle	

#### Step 1: Draw the area

Select a type of zone, a polygon (geometric shape) in the present case and press the "Define zone" button. Once selected, a skill option will appear, named "detection method". This option is only available for the "polygon" zone type.

Zone definitio	n	
🖉 Full frai	me	
	n	0
/ Line		
Object detection method in a zone 🛛 📀		
Auto	Intersection	Bottom of object
Define zon	e	

- There are three positions, each with specific features:
  - Auto: Best setting in most situations.
  - Intersection : Detection when 60% of the object (human or vehicle) is in the detection zone.
  - Bottom of object: Detection once the bottom, central, point of the box object is in the detection zone.

Then, press the button "Define zone" : The image will darken, the zone configuration mode is activated. Draw the area in the image.



To draw, press a part of the image, your first point is validated. Continue to see your full detection area. There is no contour limit on the area you can configure.



To undo your last point, press the "Undo" button.



To remove the entire polygon, press the "trash can" button and restart your detection zone drawing from the beginning.



Once your zone is finished, press the "Validate" button.



Note: If you do not close your zone, the software will do it automatically.

The image recovers its initial color and the zone is validated. The step validation icon is also checked.



You can also draw another area (polygon) in the image, for this press the button :



Carry out the same steps seen before, to validate the second zone press the button above.



Note: It is possible to draw an infinite number of zones in the image, but this may cause problems in the analysis. We recommend not to exceed three zones in an image.

Step 2: Define the temporality

Click on the "Time" section.

Configuration		Event temporality		
Configuration name	• 0	Detection alert		
		Trigger an alert after 0 seconds	<ul> <li>Every day</li> </ul>	
Skill	<b>()</b> >		🚫 Same days	
		Notification	M T W T F S S	
Type / Category		• Fact detection (clast)		
Zone		Each detection (alert)	From To	
		O Maximum every second		
Temporality				
Genetec ID	() >	11-1-	ALL CONTRACT	

Here you will find three distinct sections:

- Detection alert
- Recurrence
- Notification

#### **Detection alert:**

- This option can be used to trigger an alert after a specified number of seconds.
- For example, to detect that a person remains at least 30 seconds in an area.

#### Recurrence :

- This option can be used to configure the operation of the skill only on certain days and/or at certain times of the week.
- For example, to run a skill from Monday to Friday from 6 p.m. to 11 p.m.

#### Notification :

- This option can be used to configure the maximum number of alerts that are received per period of time.
- For example, if you want to have an alert at most every 10 seconds you can set this option to 10.

<u>Notes:</u> All options can work separately, but also all together. None of these options are required to proceed to the next section. By default the skill will start at the time it is recorded and will only stop if manually deactivated.

#### Step 3: VMS ID

Finally, press the "Milestone ID" button. The related section will change depending on the VMS used. Fill in the related field with the Analytics Event ID (Milestone) that you have created in the VMS.

Note: This field is numeric.



To confirm the skill configuration, click the "Save" button.



#### Step 4: Launch

A window appears with two options:

- Yes, activate my skill immediately "Yes, activate".
  - The skill is immediately launched
- No, activate my skill later "Later".
  - $_{\circ}$  Skill is registered, but disabled

Enable configuration?	
You save a configuration. Do you want to enable it?	
Enable it later Enable it now	

Regardless of the choice, an alert is displayed at the bottom right of the screen to confirm that the skill configuration was correctly registered.



The status of the skill, which is to the right of the name, then becomes active or inactive depending on the choice made in the previous step.



Active status: the switch is on the right and green.



Status inactive: the switch is on the left and white.



<u>Programmed status</u>: the switch on the right is green and a clock pictogram is on the left.



This means that you have configured the skill with a time frame, and therefore the skill is not currently active. It will be active at the time and date you set in the timer options.

Notes: The switch is activated even if the pictogram indicates that the skill has a timer.

#### ii. Example: Line detection

For the example, select the "wrong way" skill.

Configuration		Skill selection	
Wrong way		Detection	~
		Attendance limit gauge	
Skill	<ul> <li>&gt;</li> </ul>	Clustering	
Type / Category	<ul> <li>&gt;</li> </ul>	Clustering	
Zone	() >	Forbidden zone to pedestrians	
Temporality	<ul> <li>&gt;</li> </ul>	Forbidden zone to vehicles	
Genetec ID	() >	Illegal dumping	
		Illegal parking	
		Loitering	
		Red light running	
Save	B	Train track crossing	
		Wrong way	0

Then select the types of objects you want to detect. All vehicles are here selected by default.



You can deselect the objects you do not want to detect. Note that at least one type of object must be selected to proceed to the next step.

#### Step 1: Draw the area

Select a zone type, a line in the present example, and click the "Define area" button:





The image will darken; the zone configuration mode is activated. Draw the area in the image.



To draw, click on a point in the image, your first point is displayed, then click on another point in the image, the line between the two points is automatically drawn.



For this type of detection, you must draw a single line between two points.

Draw the arrow that indicates the direction of detection.

To remove your last point, press the "Undo" button.



To delete the entire line, press the "trash can" button and start the zero detection line again.



Once the zone is finished, press the "Confirm" button.



<u>Note:</u> If you do not draw the line and arrow all the way to the end a "warning" icon appears to the right of the word "area".


If the arrow and the line are correctly drawn the image reverts to its original color. The step validation icon is also validated.



Steps 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

## iii. Example: Full image detection

For the example, select the "Loitering" skill:



Then select the object or objects you want to detect, for this skill, "Human" is selected by default.

A minimum of one object must be selected to proceed to the next step.



#### Step 1: Draw the area

Select an area type, "Full screen" in the present case. There is no need to press the "Define zone" button when this zone is selected. Blue corners are automatically added at the four corners of the image and the pictogram to the right of "Zone" will change to validated status.

Configuration	Zone definition	
Loitering	ြု <sup>က</sup> Full frame	0
skill 🥑 >	∑ Polygon	
Type / Category 🥑 >		
Zone 🖉 >	Define zone	
Temporality 🥑 >		
Genetec ID 🛛 🥥 🗦	111	The



Proceed directly to the next step.

Steps 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

## iv. Example: Non-conventional detection (Red light running):

Select the "Red light running" skill.



Then select the types of objects you want to detect. For this skill all vehicle types are selected by default.



You can deselect the objects you do not want to detect. Note that at least one type of object must be selected to proceed to the next step.



#### Step 1: Draw the area

You don't have the choice of the type of zone to draw, select "Start line + red light" and press the "Define zone" button :

Configuration		Zone definition
Red light running		/ Starting line + red light O
Skill Type / Category	<ul><li>✓ &gt;</li><li>✓ &gt;</li></ul>	Define zone
Zone	() >	
Temporality	<ul> <li>&gt;</li> </ul>	8
Genetec ID	() >	

The image will darken; the zone configuration mode is activated. Draw the area in the image.



To draw, click on a point in the image, this will draw your first point. Then click on another point in the image, the line between the two points is automatically drawn. For this type of detection, you must draw a single line between two points.



Then draw the arrow indicating the direction of detection.



<u>Note:</u> If one of the action buttons is in front of the traffic light, move it by pressing the button below.



Then define the contours of the red light of the traffic light by placing the first point at the top left and the second at the bottom right. The area will be drawn automatically.



Move your mouse over the "?" pictogram to see an image sample.



To remove your last point, press the "Undo" button.



To remove the entire line, press the "trash can" button and restart the detection line and the area around the red zero light.



Once the zone is finished, press the "Confirm" button.



<u>Note:</u> If you do not draw the line, arrow and area around the red light all the way to the end, a "warning" icon will appear to the right of the word "area".



If the arrow and the line are correctly drawn, the image reverts to its original color. The step validation icon is also validated.



Steps 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

#### v. Example: Non-conventional detection (Clustering)

#### Select the "Clustering" skill.

Configuration		Skill selection	
Clustering		Detection	~
		Attendance limit gauge	0
Skill	>	Clustering	
Type / Category	>	Clustering	×.
Zone	• • •	Forbidden zone to pedestrians	0
Temporality	🥪 >	Forbidden zone to vehicles	0
Genetec ID	<u>()</u> >	Illegal dumping	0
		Illegal parking	0

Then select the object you want to detect, for this skill the human class is already selected and is the only one that can be selected.

Then enter a threshold between 1 and 6 person(s), if this threshold is exceeded then an alert is triggered.

At least one object and one threshold must be selected/entered to proceed to the next step.

Configuration	Object type selection	
Grouping	🛉 Human	<b>v</b>
Skill 🥥 >	🖨 Car	
Type / Category 🛛 🥑 🕕 🗦	🕞 Truck	
Zone 📀 >	🛱 Bus	
Temporality 📀 >		
Genetec ID () >	📸 Motorbike	
	ക് Bicycle	
	Alert threshold - From 1 to 6	
Save		

Steps 1, 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 1: Draw the area
- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

#### vi. Example: Non-conventional detection (attendance limit gauge)

Select the "attendance limit gauge".

Configuration	Skill selection	
Attendance limit gauge	Detection	~
	Attendance limit gauge	0
Skill 📀 >		
Type / Category 🛛 🧭 🔗 🚿	Clustering	
Zone () >	Forbidden zone to pedestrians	
Temporality 📀 >	Forbidden zone to vehicles	
Genetec ID () >	Illegal dumping	

Then select the object you want to detect. For this skill all objects are selected by default.

By default, the alert threshold is 10, it is possible to change it by the desired value, if this threshold is exceeded then an alert is triggered.

At least one object and one threshold must be selected/entered to proceed to the next step.

Configuration	٦	Object type selection	
Capacity		✿ Human	
skill		🖨 Car	
Type / Category		🕞 Truck	0
Zone	0 >	🖽 Bus	Ø
Temporality			
Genetec ID	<u>0</u> >	ත් Motorbike	<b>e</b>
		ൽ Bicycle	
		Alert threshold	
	2	10	

#### Step 1: Draw the area

You don't have the choice of the type of zone to draw. Select "Between two lines" and press the "Define zone" button:

Configuration	Zone definition
Capacity 🎼	/ Between two lines 💽
Skill 🛛 🥥 > Type / Category 💟 🥥 >	Define zone
Zone () >	
Temporality 🖉 >	
Genetec ID () >	

The image will darken; the zone configuration mode is activated. Draw the area in the image.



To draw, click on a point in the image, this will draw your first point. Then click on another point in the image, the line between the two points is automatically drawn. For this type of detection, you must draw a single line between two points.

The first line corresponds to the input line, therefore to the objects that will make +1 on the threshold entered previously.



Then, indicate the direction of the vehicles/humans. To do this, click on one side or the other of the previously drawn line. An arrow will appear indicating the desired direction.



Note: If one of the action buttons is masking the line, move it by pressing the button below.



Then draw the second line repeating the same steps as the first.

The second line corresponds to the output line, therefore to the objects that will make -1 on the threshold entered previously.





To remove your last point, press the "Undo" button.



To remove the entire line, press the "trash can" button and restart the detection line.



Once the zone is finished, press the "Confirm" button.



<u>Note:</u> If you do not draw the line and arrow all the way to the end, a "warning" icon will appear to the right of the word "area".



If the arrow and the line are correctly drawn, the image reverts to its original color. The step validation icon is also validated.



Steps 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

#### vii. Example: Non-conventional detection (Train track crossing)

Select the "Train track crossing" skill :

Configuration	Skill selection	
Train track crossing	Detection	~
	Attendance limit gauge	
Skill 📀 >	Clustering	
Type / Category 📀 >		
Zone () >	Forbidden zone to pedestrians	
Temporality 📀 >	Forbidden zone to vehicles	
Genetec ID () >	Illegal dumping	
	Illegal parking	
	Loitering	
	Red light running	
Save	Train track crossing	0
	Wrong way	0

Then select the object you want to detect. For this skill the human class is selected by default.



The "exclude train" option will ignore detection of humans in a train. No false alarm will be sent if people are visible in a train.

Options	
Exclude train(s)	<b>v</b>

Steps 1, 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 1: Draw the area
- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

# [c] Counting skills

Select the vehicle counting (traffic analysis) or pedestrian counting (pedestrian flow management) skill.

Configuration	Skill selection	
Train track crossing	Detection	>
	Counting	~
Type / Category	Pedestrian counting	
Zone 📀 >	Vehicle count	0

Then select the object you want to count. For this skill all vehicles are selected by default.

Configuration		Objec	t type selection	
Vehicle count		Ŷ		
Skill	<	1	Car	Ø
Type / Category	<ul> <li>&gt;</li> </ul>	đ	Truck	V
Zone	() >	串	Bus	
Temporality	<ul> <li></li> </ul>	తోం	Motorbike	<b>S</b>
		øðð	Bicycle	V

Steps 2, 3 and 4 are identical to those described earlier in the sections above :

- Step 2: Define the temporality
- Step 3: VMS ID
- Step 4: Launch

The following steps for counting skills are similar in every way to those for line detection. In fact, the counting skills have only one type of zone, the line.

For the counting you do not need to enter a VMS ID. Counting skills do not send alerts in the VMS but in the dashboard. You will find more explanations in the "Dashboard" section.

# [d] Delete a skill

To delete a skill press the trash can icon in the skill list at the top of the screen.



Press the "delete" button.



A validation message appears at the bottom right of the screen.



The behavior is identical for any XXII CORE - Smart City skill.

# [II] Support

For any further questions, please contact XXII CORE - Smart City support at the following address:

- <u>support@xxii.fr</u>
- 01 84 20 48 22 (Monday to Friday from 9AM/12AM 2PM/6PM GMT+1)