# MANUAL



SmokeCatcherBridge

for

MILESTONE

V1.00\_rev00

Date : 06/01/2016

### **Copyright Notice**

This document is copyright protected and is the property of Araani NV and may not be copied, reproduced or distributed in any way without the prior written consent of Araani NV.

©2015 Araani NV. Araani and SmokeCatcher are registered trademarks of Araani NV. All other company names and products are trademarks or registered trademarks of their respective companies. We reserve the right to introduce modifications without notice.



## Araani SmokeCatcherBridge

### **Table of Contents**

1	. I	Introduction	2
2		SmokeCatcher requirements	3
3.		SmokeCatcherBridge	3
-	3.1		
	3.2		
	3.3	3. Licensing	4
	3.4		
^			
4	• 1	MILESTONE	
	4.1	1. Milestone Xprotect Management Client side	8
	4.1	1.1. Port configuration	8
	4.1	1.2. Camera Installation	9
	4.1	1.3. MIP driver installation and configuration1	1
	4.1	1.4. Linking the MIP Driver to the camera1	3
	4.1	1.5. Set continuous recording1	5
	4.1	1.6. Milestone event configuration1	6
	4.1	1.7. Milestone event alarm configuration1	7
	4.1	1.8. Milestone Event Sound Notification1	8
	4.2	2. Milestone Xprotect Smart Client view1	9

© Araani NV Luipaardstraat 12 8500 Kortrijk Belgium www.araani.com +32/ 485 567 164





### **1. INTRODUCTION**

SmokeCatcherBridge is an application installed on a Milestone VMS server allowing events from SmokeCatcher devices to generate alarm notifications in the VMS.

SmokeCatcherBridge handles Alarm notifications and real time bounding box information of events.



### **2. SMOKECATCHER REQUIREMENTS**

SmokeCatcherBridge is compatible with SmokeCatcher versions V1.06 and higher.

No SmokeCatcher configuration is needed.

SmokeCatcher has to be running before connecting or it will not be able to answer to discovery requests.

### **3. SMOKECATCHERBRIDGE**

#### 3.1. COMPATIBILITY

- SmokeCatcherBrigde runs parallel to a Milestone VMS. Hardware specification should meet the minimum requirements for Milestone VMS. (Check Milestone Manual)
- Compatible with Milestone XProtect Enterprise and XProtect Corporate only. (Versions lower cannot handle the bounding box metadata features)
- Compatible with Windows© versions: Windows 7, Windows 8.1, Windows 10, Windows Server 2008, Windows Server 208 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016

#### 3.2. INSTALLATION

The SmokeCatcherBridge application requires approximately 150 MB.

SmokeCatcherBridgeSetup\_Version.exe installs a service and a client on the VMS server.

- The service will handle all event communications between SmokeCatcher devices and Milestone.
- The client allows to configure and license the application.

Milestone services can continue to run throughout the installation and configuration of the SmokeCatcherBridge.

It is required to install and configure the SmokeCatcherBridge with administrative privileges.

- Run the installation package "SmokeCatcherBridgeSetup\_Version.exe".
- At the introduction screen of the installer press "Next" to continue.
- Make sure the "Milestone Integration" component is selected before clicking "Next" to continue.
- Select a destination folder for the application before clicking "Install" to continue.
- The application will install. Upon finishing, it will automatically run the service and open the SmokeCatcherBridge Client.
- Don't forget to close the Installer when the installation is complete by clicking "Close".

By default the application will install under C:\Program Files\Araani\SmokeCatcherBridge.

A start menu program item will be added named Araani in which you find the SmokeCatcherBridge Client.



#### 3.3. LICENSING

By default the SmokeCatcherBridge will run unlicensed. With an unlicensed version you can communicate with one SmokeCatcher device only. For communication with more devices, contact Araani for a license.

- Open the SmokeCatcherBridge Client (Start Programs Araani SmokeCatcherBridge Client)
- Go to the tab "About"

This "About" tab shows you information on the SmokeCatcherBridge version and the license.

The License part shows 3 items:

CID	A unique computer identification number needed to request your license
Status	Indicates whether the product is licensed or not
Max. number of cameras	-Shows the maximum number of SmokeCatcher devices able to connect to the SmokeCatcherBridge.
	-The number of entries created in the Milestone MIP driver open for potential SmokeCatcher device connections. Used or unused, the number of channels defined here will be created in Milestone.

Licensing takes only these steps:

- Contact Araani and send us the "CID" and the number of SmokeCatcher devices you wish to use.
- Araani will send you a ".lic" file. Use the "import" button in the "About" tab to install the ".lic" file.
- Verify if your SmokeCatcherBridge application is licensed for the requested number of devices in "Status".

A license is tied to the computer hardware. You cannot activate SmokeCatcherBridge on another device.

#### **3.4. CONFIGURATION**

Make sure all the SmokeCatcher devices are activated and have the SmokeCatcher application running.

All SmokeCatcher devices should be connected to the same Local Area Network as the server computer. (*Note: pinging the device from the server side indicates if communication is possible*)

- Open the SmokeCatcherBridge Client (Start Programs Araani SmokeCatcherBridge Client).
- Go to the "Configuration" tab. (by default the application starts in this tab).
- Click the "Edit" button to start configuring.
- The application is no longer greyed out. You can now add devices and configure Milestone connection.

By default the "General" fields and the "Event Server" port are filled in. It's advised to leave this default configuration.



An overview of the application configuration:

General	bout				
	A	Event Serve	0		
User	araani	IP Address	10.10.10.80		
Password		Port	9090		
Port	52123	Last Transm	ission •		
Camera list # IP Addres	C Is Port State				
Selec					
Add	Remove		F	ve Cancel	
Smoke metad	eCatcherBridge to t		river. This communi	rmation for commur ication transmits real-	
	Port:	52123			
service	Event Server" area o e. This event service IP Address: Port: Last Transmission:	takes care of the visua Enter the IP Address 9090 (default Ana Last successful trans	lization of events in a of the Milestone Events alytics Events port of mission of an event	Milestone) with timestamp.	he Milestone Eve ent Alarm manage
_	"Comora list" you c	(Event timestamp ba	· · ·	· · · · · · · · · · · · · · · · · · ·	llad licanca. This li
1 In the				es allowed by the insta	ned ncense. This n
of Dev					ne configuration f
of Dev the M	IP driver configuration				ne configuration f
of Dev the M	IP driver configuration	on)	nokeCatcher device y	vou add.	ne configuration f
of Dev the M	IP driver configuration amera list contains 4	on) I elements for each Sm	nokeCatcher device y ual to the Milestone	vou add.	ne configuration f
of Dev the M	IP driver configuration amera list contains 4 #:	on) elements for each Sm Camera channel equ IP Address of the Sm	nokeCatcher device y ual to the Milestone nokeCatcher device	vou add.	-
of Dev the M	IP driver configurati amera list contains 4 #: IP Address:	on) I elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S	nokeCatcher device y ual to the Milestone nokeCatcher device nokeCatcher device SmokeCatcher device	vou add. MIP driver channel connects (default 5555) e. Following states are	
of Dev the M	IP driver configurati amera list contains 4 #: IP Address: Port:	on) I elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected:	nokeCatcher device y ual to the Milestone nokeCatcher device nokeCatcher device SmokeCatcher device Normal successful o	rou add. MIP driver channel connects (default 5555 e. Following states are operation	
of Dev the M	IP driver configurati amera list contains 4 #: IP Address: Port:	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed:	nokeCatcher device y ual to the Milestone nokeCatcher device nokeCatcher device SmokeCatcher device Normal successful o No connection with	you add. MIP driver channel connects (default 5555 e. Following states are operation n Milestone	
of Dev the M	IP driver configurati amera list contains 4 #: IP Address: Port:	on) I elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected:	nokeCatcher device y ual to the Milestone nokeCatcher device nokeCatcher device SmokeCatcher device Normal successful o No connection with SmokeCatcher devi	rou add. MIP driver channel connects (default 5555 e. Following states are operation n Milestone ce connection failed	possible:
of Dev the M The Ca	IP driver configurati amera list contains 4 #: IP Address: Port: State:	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed: -Disconnected:	nokeCatcher device y ual to the Milestone nokeCatcher device nokeCatcher device SmokeCatcher device Normal successful o No connection with SmokeCatcher devi SmokeCatcherBridg	You add. MIP driver channel connects (default 5555) e. Following states are operation n Milestone ce connection failed ge will continuously try	possible: to reconnect
of Dev the M The Ca	IP driver configuration amera list contains 4 #: IP Address: Port: State: t click in the white ar	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p	nokeCatcher device y ual to the Milestone nokeCatcher device NokeCatcher device SmokeCatcher device Normal successful o No connection with SmokeCatcher devi SmokeCatcher devi SmokeCatcherBridg pane to get a menu. H	You add. MIP driver channel connects (default 5555) e. Following states are operation n Milestone ce connection failed ge will continuously try Here you can "Add" a Si	possible: to reconnect
of Dev the M The Ca ) - Right man - Right	IP driver configuration amera list contains 4 #: IP Address: Port: State: t click in the white arrivally or "Discover" State clicking on a select	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p SmokeCatcher devices ted SmokeCatcher devices	nokeCatcher device y ual to the Milestone nokeCatcher device SmokeCatcher device Normal successful o No connection with SmokeCatcher devi SmokeCatcher devi SmokeCatcher Bridg pane to get a menu. H automatically on the	You add. MIP driver channel connects (default 5555) e. Following states are operation n Milestone ce connection failed ge will continuously try Here you can "Add" a Si	possible: to reconnect nokeCatcher devi
of Dev the M The Ca ) - Right man - Right	IP driver configuration amera list contains 4 #: IP Address: Port: State: t click in the white arrivally or "Discover" S	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sm Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p SmokeCatcher devices ted SmokeCatcher devices rea SmokeCatcher devices	nokeCatcher device y ual to the Milestone nokeCatcher device SmokeCatcher device Normal successful of No connection with SmokeCatcher devi <u>SmokeCatcher Bridg</u> oane to get a menu. I automatically on the ice in the Camera lis	You add. MIP driver channel connects (default 5555) e. Following states are operation n Milestone ce connection failed ge will continuously try Here you can "Add" a St e Local Area Network.	possible: to reconnect nokeCatcher devi temove", "Selectio
of Dev the M The Ca ) - Right man - Right	IP driver configurati amera list contains 4 #: IP Address: Port: State: t click in the white ar ually or "Discover" S t clicking on a select and "Selection Dow	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sm Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p SmokeCatcher devices ted SmokeCatcher devices rea SmokeCatcher devices	nokeCatcher device y ual to the Milestone nokeCatcher device SmokeCatcher device Normal successful of No connection with SmokeCatcher devi SmokeCatcher devi SmokeCatcher Bridg pane to get a menu. H automatically on the ice in the Camera lis	You add. MIP driver channel connects (default 5555) e. Following states are operation in Milestone ce connection failed ge will continuously try Here you can "Add" a Sr e Local Area Network. t enables the "Edit", "F added devices in the lis	possible: to reconnect nokeCatcher devi temove", "Selectio
of Dev the M The Ca ) - Right man - Right	IP driver configuration amera list contains 4 #: IP Address: Port: State: t click in the white arrow ually or "Discover" St t clicking on a select and "Selection Dow Edit:	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p SmokeCatcher devices red SmokeCatcher devices red SmokeCatcher devices Change SmokeCatch Remove a SmokeCat	nokeCatcher device y ual to the Milestone nokeCatcher device SmokeCatcher device Normal successful of No connection with SmokeCatcher devi SmokeCatcher devi SmokeCatcherBridg Dane to get a menu. I automatically on the ice in the Camera lis	You add. MIP driver channel connects (default 5555) e. Following states are operation in Milestone ce connection failed ge will continuously try Here you can "Add" a Sr e Local Area Network. t enables the "Edit", "F added devices in the lis	possible: to reconnect nokeCatcher devi temove", "Selection
of Dev the M The Ca ) - Right man - Right	IP driver configuration amera list contains 4 #: IP Address: Port: State: t click in the white arrivally or "Discover" St t clicking on a select and "Selection Dow Edit: Remove:	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p SmokeCatcher devices ted SmokeCatcher devices ted SmokeCatcher devices Change SmokeCatch Remove a SmokeCatch	nokeCatcher device y ual to the Milestone nokeCatcher device SmokeCatcher device Normal successful of No connection with SmokeCatcher devi SmokeCatcher devi SmokeCatcher Bridg Dane to get a menu. I automatically on the ice in the Camera lis	You add. MIP driver channel connects (default 5555) e. Following states are operation in Milestone ce connection failed ge will continuously try Here you can "Add" a Si e Local Area Network. t enables the "Edit", "F added devices in the lis e list	possible: to reconnect nokeCatcher devi emove", "Selection t number
of Dev the M The Ca - Right man - Right Up"	IP driver configuration amera list contains 4 #: IP Address: Port: State: t click in the white arrow ually or "Discover" St t clicking on a select and "Selection Down Edit: Remove: Selection Up: Selection Down:	on) 4 elements for each Sm Camera channel equ IP Address of the Sm Port on which the Sn Current state of the S -Connected: -Closed: -Disconnected: rea of the Camera list p SmokeCatcher devices ted SmokeCatcher devices ted SmokeCatcher devices Change SmokeCatch Remove a SmokeCatch Move a SmokeCatch Move a SmokeCatch Number	nokeCatcher device y ual to the Milestone nokeCatcher device SmokeCatcher device Normal successful of No connection with SmokeCatcher devi SmokeCatcher devi SmokeCatcher Bridg Dane to get a menu. I automatically on the ice in the Camera lis ner configuration for scher device from the ier device up in the line redevice down in the	You add. MIP driver channel connects (default 5555) e. Following states are operation in Milestone ce connection failed ge will continuously try Here you can "Add" a Si e Local Area Network. t enables the "Edit", "F added devices in the lis e list st changing its channel	possible: to reconnect mokeCatcher devi temove", "Selection t number nel



To **add** a SmokeCatcher device manually follow these steps:

- Open the SmokeCatcherBridge Client (Start Programs Araani SmokeCatcherBridge Client).
- Go to the "Configuration" tab. (by default the application starts in this tab).
- Click the "Edit" button to start configuring.
- Click the "Add" button.
- A popup menu appears.
- Type the IP Address of the SmokeCatcher device you wish to add in the IP Address field.
- Leave the Port on 5555.
- Click "OK" to confirm.
- The SmokeCatcher device will be added to the list.
- A connection State will not be available until you save the configuration.

To **discover** SmokeCatcher devices automatically follow these steps:

- Open the SmokeCatcherBridge Client (Start Programs Araani SmokeCatcherBridge Client).
- Go to the "Configuration" tab. (by default the application starts in this tab).
- Click the "Edit" button to start configuring.
- Right-Click in the white "Camera list" field and select "Discover".
- A popup menu appears.
- Click the "Discover" button to start looking for SmokeCatcher devices.
- Wait for approximately 5 seconds for the SmokeCatcher devices to enter.
- Select the SmokeCatcher devices of choice.
- Click "OK" to confirm.
- The SmokeCatcher devices will be added at the bottom to the list.
- Right-click the SmokeCatcher devices and use the "Selection Up" and "Selection Down" features to move the devices to the desired order.
- A connection State will not be available until you save the configuration.

Don't forget to save!

Editing a current SmokeCatcher device configuration in the camera list:

- Open the SmokeCatcherBridge Client (Start Programs Araani SmokeCatcherBridge Client).
- Go to the "Configuration" tab. (by default the application starts in this tab).
- Click the "Edit" button to start configuring.
- Right-Click on the camera you wish to change.
- A popup menu appears.
- Click the "Edit" button.
- A popup appears in which you can change the IP Address and/or Port of the device.
- Click "OK" to confirm.
- The SmokeCatcher device is changed in the list but keeps its channel number.
- A connection State will not be available until you save the configuration.



Removing a current SmokeCatcher device configuration in the camera list:

- Open the SmokeCatcherBridge Client (Start Programs Araani SmokeCatcherBridge Client).
- Go to the "Configuration" tab. (by default the application starts in this tab).
- Click the "Edit" button to start configuring.
- Select the camera you wish to remove.
- Click the "Remove" button.
- The SmokeCatcher device is removed from the list.
- A connection State will not be available until you save the configuration.
- Please note: Cancel can still ignore this change.
- When saved, the Channel number of the devices below change so the list follows up.

When the complete list of cameras has been entered, but the Milestone Configuration has not been completed the connections will remain in status **closed**. First follow the Milestone configuration steps and check the status again afterwards.



### 4. MILESTONE

ALL VERSIONS OF MILESTONE XPROTECT SUPPORT THE ANALYTIC EVENT ALARMS, BUT THE REAL-TIME BOUNDING BOX METADATA IS ONLY SUPPORTED BY MILESTONE XPROTECT ENTERPRISE AND MILESTONE XPROTECT CORPORATE.

#### 4.1. MILESTONE XPROTECT MANAGEMENT CLIENT SIDE

#### 4.1.1. PORT CONFIGURATION

SmokeCatcherBridge sends analytic events on port 9090. This port needs to be configured in the Milestone Management application.

Go to "Tools - Options"

Milestone XProtect Mar	naq	ement Client 2016 R2			
File Edit View Action	Too	ls Help			
₩ 9 0 • # 4	\$	Registered Services			
Site Navigation	ñ	Enterprise Servers	Definitions 👻 🕂	Properties	
CAMERASTATION	A	Effective Roles	Alarm Definitions CONFIGURATION	Alarm definition	
License In fo		Options CTRL+O	FAULT Fault_Generic	Enable: Name:	
Remote Connect	Sen	rices	OPERATIONAL	Instructions:	

Go to the tab "Analytics events"

Make sure Analytics events is set to "Enabled" on Port "9090". The events should be allowed from "All network addresses"

Options		Taget .				×
User Settings Analytics even V Enabled Port: 9090	Party of the local division of the local div	Access Control Settings	Analytics Events	Customer Dashboard	Event Server	Ge
Addr	k addresses network addresse:	5:				
	Import					
Help				ОК	Cancel	

Finish by clicking "ok" so your settings are correctly saved.



#### 4.1.2. CAMERA INSTALLATION

First the SmokeCatcher devices (cameras) need to be added in the Milestone Management Client. Milestone calls these devices "Recording Servers".

- In "Servers" visit the "Recording Servers" tab.
- Under "Recording servers" click to open the server which is indicated with the server name.
- If this is an existing Milestone Server, devices will already be in the server list.
- Right-click on the recording server (indicated with the server name).
- A popup menu appears.
- Click "Add Hardware".



- A new window appears.
- Select "Manual" and continue by clicking "Next" (An automatic scan is also possible).
- Click the "Add" button to add your camera credentials. (Ex. User name: root, Password: x)
- Click "Next" to continue.
- Select your camera brand. (Ex. Axis) and click "Next" to continue.
- Type the IP Address of the SmokeCatcher device you wish to add. (Leave Port to 80 and Hardware model to Auto-detect).
- Click "Next" to continue.
- Milestone will add the camera and mark "Success" in the status window as a confirmation.
- Click "Next" to continue.
- Once more Milestone will verify positive connection and mark "Success" again.
- Click "Next" to continue.
- Select the Camera ports you wish to use if the camera supports multiple ports. (When in doubt, select all of the ports. The first port is the port which will be used in normal circumstances).
- Click "Next" to continue.
- Click on the Folder icon where it says "Default camera group" and add you camera to a specific or just to the default group. (In a next step where the MIP driver will be installed this will have to be added to the same group.)
- Click "Finish" to finalize the camera installation.

Now your SmokeCatcher device is added in Milestone and marked with the camera type and it's IP Address in between brackets.

☐ ∰ Recording Servers
☐ ₩ WIN7\_X64
₩ AXIS M1145 Network Camera (10.10.10.77)



By default the camera image will appear in the Milestone Smart Client as a low resolution image (640x480 px)

This image is low quality and does not represent the field of view of SmokeCatcher. Here is how we change this:

- In "Recording Servers", open the camera you wish to adjust by clicking the "+" next to it.
- Select the first camera in the list (it will be marked with a green "play" sign) (Most cameras only have one camera)
- In the field on the right of the camera list, visit the "Settings" tab.
- The second list of settings is "Video stream 1".
- In "Video stream 1" there is a "resolution" item.
- Change the resolution to the resolution SmokeCatcher is using on the camera. (Ex. 1280X720)
- Don't forget to press the "save disk" on the left top of the Milestone window to save.

🖯 🤈 🕑 🗢 🛍						
Site Navigation	👻 🕂 🗙	Recording Server - 7	Pro	perties		👻 👎
	×	□ tj) Recording Servers □ tj) WIN7_X64	Ax	is 8 channel device		-
License Information		AXIS M1145 Network Camera (10 10 10 77)		General		*
Site Information		AXIS M1145 Network Camera (10.10.10.77) - Camera 1		Color	Color	
B Servers		AXIS M1145 Network Camera (10.10.10.77) - Camera 2		Edge recording type to retrieve	Continuous	
Recording Servers		AXIS M1145 Network Camera (10.10.10.77) - Camera 3		Mirror image	No	
		AXIS M1145 Network Camera (10.10.10.77) - Camera 4		Multicast address	239.195.220.217	=
Failover Servers		AXIS M1145 Network Camera (10.10.10.77) - Camera 5		Multicast time to live	5	
🖻 ኛ Devices		AXIS M1145 Network Camera (10.10.10.77) - Camera 6		Multicast video port	0	
- The Cameras		AXIS M1145 Network Camera (10.10.10.77) - Camera 7		Rotation	180	
- A Microphones		AXIS M1145 Network Camera (10.10.10.77) - Camera 8		Video stream 1	and the second	
- 🜒 Speakers				Bit rate control mode	Variable bit rate	
- Metadata		AXIS M1145 Network Camera (10.10.10.77) - Input 1		Bit rate control priority	None	
do Input		AXIS M1145 Network Camera (10.10.10.77) - Output 1		Codec	H264	
- Output				Compression	50	
				Frames per second	8	
Client				Include Date	No	
- 🔁 View Groups				Include Time	No	
- 🐙 Smart Client Profiles				Max frames between keyframes	30	
Matrix				Max frames between keyframes mode	Default (determined by driver)	
Rules and Events				Resolution	1280x720	
Rules				Streaming Mode	RTP/RTSP/TCP	
Time Profiles	-			Target bit rate	2000	
Notification Profiles	=		4	Video stream 2		
Viser-defined Events				Bit rate control mode	Variable bit rate	
				Bit rate control priority	None	
Analytics Events				Codec	H264	
Generic Events				Compression	50	
🖻 🐗 Security				Frames per second	8	
- 🔥 Roles				Include Date	No	
🛛 🤶 Basic Users				Include Time	No 30	
System Dashboard				Max frames between keyframes	30	*
Current Tasks			0	ieneral		
System Monitor						
System Monitor Thresholds						
						1
Configuration Reports			1	) Info 📸 Settings 🚺 Streams 🥚 Reco	rd 🖈 Motion 🔕 Fisheye Lens 🏘 Events 🖵	Client Client
🖨 🔚 Server Logs			.al			



#### 4.1.3. MIP DRIVER INSTALLATION AND CONFIGURATION

The MIP driver handles Metadata communication (Bounding box information) between Milestone and SmokeCatcherBridge.

When all the SmokeCatcher devices have been added to the camera list in "Recording Servers" a MIP driver with camera channels needs to be installed.

The amount of cameras the MIP driver supports in Milestone depends on the license of the SmokeCatcherBridge. ("Max. number of cameras" to be found in "About" in SmokeCatcherBridge)

Adding a MIP driver is similar to adding a SmokeCatcher device:

- In "Servers" visit the "Recording Servers" tab.
- Under "Recording servers" click open the server which is indicated with the server name.
- Right-click on the recording server (indicated with the server name).
- A popup menu appears.
  - Click "Add Hardware". WIN7\_X64 - (10.1a) ரி R H H 🛄 Bas Basics Collapse Site Information CTRL+N Move Hardware.. Recording Servers Delete All Hardware Failover Server ame Recording Serve F2 Cameras Remove Recording Server Microphone Refresh F5 Speaker
- A new window appears.
- Select "Manual" and continue by clicking "Next".
- Click the "Add" button to add MIP driver credentials.
- Add username 'araani' with password 'araani' , and make sure the user is included

Include	User Name	Password
	(Factory Default)	•••••
<b>V</b>	root	•••••
V	araani	•••••

- Click "Next" to continue.
- In the driver selection, go to the bottom of the list and select "Other" "MIP Driver".
- Click "Next" to continue.
- In the next window fill in this information:
  - Address: 127.0.0.1
  - Port: 52123
  - Hardware model: MIP Driver
- Click "Next" to continue.
- Milestone will add the MIP Driver and mark "Success" in the status window as a confirmation.
- Click "Next" to continue.
- Once more Milestone will verify positive connection and mark "Success" again.
- Click "Next" to continue.
- The amount of Port available will be the amount available in your SmokeCatcherBridge license. Enable all of these Metadata ports. (In the column "Enabled" make sure are boxes are marked)
- Click "Next" to continue.
- Click on the Folder icon where it says "Default metadata group" and add you camera to the same group your cameras are in.
- Click "Finish" to finalize the camera installation.



The MIP driver is successfully installed with the amount of Metadata ports available in your SmokeCatcherBridge license.

Recording Server	<b>→</b> ₽
□  ☐ Recording Servers	
□-↓] WIN7_X64	
AXIS M1145 Network Camera (10.10.10.77)	
🖮 🞰 MIP Driver (127.0.0.1)	
MIP Driver (127.0.0.1) - Metadata 1	
MIP Driver (127.0.0.1) - Metadata 2	
MIP Driver (127.0.0.1) - Metadata 3	
MIP Driver (127.0.0.1) - Metadata 4	
MIP Driver (127.0.0.1) - Metadata 5	
MIP Driver (127.0.0.1) - Metadata 6	
MIP Driver (127.0.0.1) - Metadata 7	
MIP Driver (127.0.0.1) - Metadata 8	
MIP Driver (127.0.0.1) - Metadata 9	
🦾 🎇 MIP Driver (127.0.0.1) - Metadata 10	



#### 4.1.4. LINKING THE MIP DRIVER TO THE CAMERA

When all SmokeCatcher devices are added in Milestone and the MIP Driver is successfully installed, the cameras need to be linked to the correct Metadata channel of the MIP Driver.

In the SmokeCatcherBridge you have a list of devices available with an ID. This ID is the same as the Metadata port number in the MIP Driver.

#### Example:

Here you see a SmokeCatcher device (10.10.10.77) added to SmokeCatcherBridge which has ID 1 (#). This camera is added in Milestone as "Axis M1145 Network Camera (10.10.10.77)". The MIP Driver Metadata port accompanying this camera would be Metadata 1, the same number as the ID (#) in SmokeCatcherBridge.

			E1.00.05			
Recording Server	SmokeCatcher®     Configuration Abou General User Password Port Camera lat # IP Address 1 10.10.10.77	t araani 52123 Port	E1.00.05 State Connected	Event Server IP Address Port Last Transmissio	n +	
	Edit				C	Import



For each SmokeCatcher device in Milestone the right Metadata port of the MIP Driver needs to be related.

- In "Recording Servers", open the camera you wish to adjust by clicking the "+" next to it.
- Select the first camera in the list (it will be marked with a green "play" sign) (Most cameras only have one camera)
- In the field on the right of the camera list, visit the "Client" tab.
- In Client settings look for "Related metadata". (There should be a Metadata channel filled in)
- Click the "Clear" button to clear all related metadata channels.
- Click the add button. (Button with 3 dots next to the Clear button)
- A window will open
- In the left pane, go to the group folder you added the MIP Driver in.
- Select the right Metadata port in the list. (Same port as in the SmokeCatcherBridge)
- Confirm with the "OK" button.
- The Related Metadata is now added to the camera.
- Repeat this action for each SmokeCatcher device.
- Don't forget to press the "save disk" on the left top of the Milestone window to save.

win7_milestone - VMware Workstation		- 🗆 X
File Edit View VM Tabs Help   📕 🕶   🖶	)   P P P   E = # -   E	
Home × win7_milestone ×		
Milestone XProtect Management Client 2016 R2		
File Edit View Action Tools Help		
日 9 3 ◆ 曲		
Site Navigation - 7 × Record	rding Server 🗸 म् 🖡	Properties • 4
Basics     License Information     License Information     Ste Information     Servers     Pailover Servers     Pailover Servers     Poivices     Cameras     Microphones     Speakers     Microphones     Output     Clent     View Groups     Wetadata     ✓ Input     ✓ Output     Clent     View Groups     Watrix	Recording Servers           WMR7_XE4           WMR7_XE4	Clerr settings Uve multicast Related microphone: Related speaker: Related speaker: Related metadata: MIP Driver (127.0.0.1) - Metadata 1 Coear Shortcut:
Rules and Events      Rules      Time Profiles      Votification Profiles      Votification Profiles      Votification Profiles      Analytics Events      Seneric Events      Roles      Basic Users      System Dashboard	MIP Driver (127.00.1) - Metadata 7     MIP Driver (127.00.1) - Metadata 8     MIP Driver (127.00.1) - Metadata 9     MIP Driver (127.00.1) - Metadata 9     MIP Driver (127.00.1) - Metadata 10	Streams I Record A Motion Fisheye Lens Revents Client E Privacy Mask



#### 4.1.5. SET CONTINUOUS RECORDING

Milestone will automatically perform a recording for each event. Continuous recording needs to be active in the Milestone as event recording is a time stamp on the continuous recording.

To activate continuous recording:

- In 'Rules and Events' visit the 'Rules' tab.
- Add a new rule by right clicking on "Rules".
- Name the rule 'Continuous record'.
- Make sure to set the rule to "active".
- Select to set a rule for a time interval.
- Click next and select 'always'.
- Select 'Start Recording on <devices>.
- Click on Devices below and select the devices you wish to activate recording on.





#### 4.1.6. MILESTONE EVENT CONFIGURATION

Once your camera and the MIP driver is installed in Milestone, Analytic events need to be defined for the Smart Client Alarm manager.

- Visit the 'rules and event' tab.
- There you find 'Analytics events'.
- Right click on 'Analytics events' and select 'Add new...' to add a new event.
- In the new event provide the name, for example 'Operational'. <u>This has to be written exactly as stipulated. This writing is case sensitive.</u>
- You will have to add 5 events in total:
  - -Operational Signal -Fault Signal -Pre Smoke Alarm -Smoke Alarm.
  - -Communication Fault Signal

Don't forget to save after entering the name in the event.

The Sdit View Action Tools Help				
	ųΧ		Properties	
🖃 🚺 WIN7_X64 - (10.1a)	*	E 🕈 Analytics Events	Name:	
🖶 💷 Basics		Communication Fault Sig	Operational Signal	
Elicense Information		Operational Signal		
Site Information		Pre Smoke Alarm		Test Event
E Servers		Smoke Alarm	Description:	
Recording Servers			Description.	
Failover Servers ⊟ 200 Devices				
Cameras				
Microphones				
Speakers				
Metadata				
Output				
B - I Client				
View Groups				
Smart Client Profiles				
Matrix				
Rules and Events				
Rules				
Time Profiles	=			
Notification Profiles	-			
Cool administrations				
- Generic Events				
🖻 🦏 Security				
🔜 🗟 Basic Users				
🖻 🕥 System Dashboard				
Current Tasks				
System Monitor				
System Monitor Thresholds				
Configuration Reports				
🖻 🔚 Server Logs				
System Log				
Audit Log				
Rule Log				
- Recess Control				
Transact				
Transaction sources				
Transaction definitions				
🕀 🐭 🥷 Alarms				



#### 4.1.7. MILESTONE EVENT ALARM CONFIGURATION

After creating the events, the according alarms need to be configured.

- In the Navigation pane go to menu "Alarms" and the submenu "Alarm Definitions".
- In the "Alarm Definitions" pane, right-click on "Alarm Definitions" and select "Add New..."
- Set the Alarm definition to Enabled.
- Name the alarm. (Ex. : Smoke Alarm)
- Configure the triggering event with these settings:
  - Analytics Events
  - Smoke Alarm (If Alarm is "Pre Smoke Alarm", triggering event has to be "Pre Smoke Alarm")
  - Click the "Select..." button to select the cameras for which this alarm is valid.
- Select when this alarm should be active (Ex. Always)
- Select the alarm priority (Ex. : Alarms could be set as High and Signals could be set as Medium) (Alarm priority could be used for example to trigger different sound notifications)
- Don't forget to save you settings.





#### 4.1.8. MILESTONE EVENT SOUND NOTIFICATION

Milestone can play sounds in the form of \*.wav files when events (Alarms) occur to draw attention to the control screen. These sounds can be different for different kinds of priorities.

When the Alarm were defined you were able to choose the alarm priority. Now we will define sounds for each priority level (High, Medium and Low):

First we add the sound files (\*.wav) we want to use:

- Open Milestone Xprotect Management Client.
- In the "Site Navigation" pane, visit the "Alarms" menu and click the "Sound Settings".
- Click the "Add" button browse your hard disk for sounds.
- Confirm with "Open".
- Repeat for each sound you wish to add.
- Don't forget to save.

Next we link the Alarm priorities to sound clips:

- Open Milestone Xprotect Management Client.
- In the "Site Navigation" pane, visit the "Alarms" menu and click the "Alarm Data Settings".
- In the Configuration pane, at the top, you find Priorities.
- Click the drop down menu in the Sound column to choose a sound for each priority. (1 High, 2 Medium, 3 Low)
- Don't forget to save.

In **Milestone Smart Client**, sounds need to be enabled:

- Open Milestone Xprotect Smart Client.
- Click the "Options" button on the top right.



- In the left menu, go to "Alarm".
- Enable the features "Play sound notification".
- Confirm with "OK".



#### 4.2. MILESTONE XPROTECT SMART CLIENT VIEW

After the Milestone Configuration is finished, open the SmokeCatcherBridge Client to check the connection status of the SmokeCatcher devices. These should all be connected if these 4 conditions are met:

- Make sure the SmokeCatcherBridge service is running.
- Make sure the SmokeCatcher application is running on the cameras.
- Make sure the Milestone Event server is running.
- Make sure the Milestone Recording server is running.

With all these conditions are met, the Milestone Smart Client shows all event (Alarms) in the "Alarm Manager" with date and time information. Clicking the event (Alarm) shows recording information of that time and date.

In the Milestone Smart Client "Live" tab, the live image is seen of the Cameras and SmokeCatcher devices will show bounding box information on the live image when an event (Alarm) occurs.

Live Playback	rt Client 2016 R2 Sequence I	Simlarar I	Alarm Ma		System Mor	alter .					:53:04 - C	
Гле Раубаск	sequence	explorer	Alarm Ma	nager <b>(p</b>	System Mor	nitor					Setup	e (m
< > 🕑 No map has b	een selected					<b>*</b>	XIS Q1614 Network (	C (10 10 10 11)		21 (00 (20)		
								After recordings. After recordings. Afts Q1614 Network C Camera 1 camerastation:7563		7		
							and the second division of the second divisio				1	
larms	New (Filter	Applied)				20	On-Screen detection 3730	Hednesday 2016-98 ▲I ▲ 31/06/2016 Re	11 15:53110 17:50:21.94	o pre 41    ► 1-19	RATIONAL 2016- 18:10 Clear filter	Filter
	New (Filter	(Applied)	Priority Level	State Level	State Name	20 Message	Source		A STREET, STRE		18:10	Filter
ick Filters	🖾 Time	Applied) 27 31/08/2016		State Level	State Name	20 Message Fault Signal		Re Owner ID	A STREET, STRE		18:10	Filter
uck Filters ▼ New (19)	🖾 Time			State Level	and the second sec	and the second se	Source	Re Owner ID 652	A STREET, STRE		18:10	Filter
aick Filters ▼ New (19) ▼ In progress (231)	Ime 13.44 Im 13:45	27 31/08/2016		1	New	Fault Signal Fault Signal	Source AXIS Q1614 Network Came	Re Owner ID 652	A STREET, STRE		18:10	Filter
uck Filters ▼ New (19)	In Time In 13:44 In 13:45 In 13:47	27 31/00/2016		1	New New	Fault Signal Fault Signal Operational S	Source AXIS Q1614 Network Came AXIS Q1614 Network Came	Re Owner ID 663 664	A STREET, STRE		18:10	Filte
aick Filters ▼ New (19) ▼ In progress (231)	<ul> <li>Time</li> <li>13.44</li> <li>13.45</li> <li>13.47</li> <li>13.47</li> </ul>	27 31/08/2016 11 31/08/2016 :02 31/08/2016		1	New New New	Fault Signal Fault Signal Operational S Smoke Alarm	Source AXIS Q1614 Network Came AXIS Q1614 Network Came AXIS Q1614 Network Came	Re Owner ID 663 664	A STREET, STRE		18:10	Filte
iick Filters ▼ New (19) ▼ In progress (231) ▼ On hold (0)	<ul> <li>Time</li> <li>13:44.</li> <li>13:45.</li> <li>13:47.</li> <li>13:47.</li> <li>13:47.</li> <li>13:58.</li> </ul>	27 31/08/2016 11 31/08/2016 02 31/08/2016 03 31/08/2016		1 1 1 1	New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S	Source AXIS Q1614 Network Came AXIS Q1614 Network Came AXIS Q1614 Network Came AXIS Q1614 Network Came	Re Owner ID 663 664 665	A STREET, STRE		18:10	Filte
iick Filters ▼ New (19) ▼ In progress (231) ▼ On hold (0)	<ul> <li>Time</li> <li>13 44</li> <li>13 45</li> <li>13 47</li> <li>13 47</li> <li>13 47</li> <li>13 47</li> <li>13 48</li> <li>13 58</li> <li>13 58</li> </ul>	27 31/08/2016 11 31/08/2016 02 31/08/2016 03 31/08/2016 15 31/08/2016		1 1 1 1	New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al	Source AXIS Q1614 Network Came AXIS Q1614 Network Came AXIS Q1614 Network Came AXIS Q1614 Network Came AXIS Q1614 Network Came	Re Owner ID 663 664 665 666	A STREET, STRE		18:10	Filte
iick Filters ▼ New (19) ▼ In progress (231) ▼ On hold (0)	<ul> <li>Time</li> <li>13.44</li> <li>13.45</li> <li>13.47</li> <li>14.47</li> <li>1</li></ul>	27 31/08/2016 (11 31/08/2016 (02 31/08/2016 (03 31/08/2016 (15 31/08/2016 (16 31/08/2016		1 1 1 1 1 1 1	New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S	Source AXIS Q1614 Network Came AXIS Q1614 Network Came	Re 662 663 664 665 666 666 667 668	A STREET, STRE		18:10	Filte
iick Filters ▼ New (19) ▼ In progress (231) ▼ On hold (0)	<ul> <li>Imme</li> <li>13.445</li> <li>13.475</li> <li>13.477</li> <li>13.477</li> <li>13.477</li> <li>13.477</li> <li>13.477</li> <li>13.478</li> <li>13.588</li> <li>13.588</li> <li>13.589</li> <li>14.544</li> </ul>	27 31/08/2016 (11 31/08/2016 (02 31/08/2016 (03 31/08/2016 (15 31/08/2016 (16 31/08/2016 (22 31/08/2016		1 1 1 1 1 1 1	New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S Pre Smoke Al	Source AXIS 01614 Network Camr AXIS 01614 Network Camr	Re Cowner ID 662 663 664 665 666 667 668 668 669	A STREET, STRE		18:10	Filte
nck Filters ▼ New (19) ▼ In progress (231) ▼ Ch hold (0) ▼ Closed (306)	<ul> <li>Imme</li> <li>13.44</li> <li>13.45</li> <li>13.47</li> <li>13.47</li> <li>13.47</li> <li>13.47</li> <li>13.48</li> <li>13.58</li> <li>13.59</li> <li>14.04</li> <li>14.04</li> </ul>	27 31/08/2016 11 31/08/2016 02 31/08/2016 03 31/08/2016 15 31/08/2016 16 31/08/2016 12 31/08/2016 11 31/08/2016		1 1 1 1 1 1 1 1 1	New New New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pro Smoke Al Operational S Pre Smoke Al Operational S	Source ANIS 011614 Metwork Cam AXIS 011614 Network Cam	Re Cowner ID 662 663 664 665 666 667 668 668 669	A STREET, STRE		18:10	File
nde Filtens T New (19) T In progress (231) T Chin hald (0) T Closed (306) neers	2 Time 1345 2 1345 2 1347 2 1347 2 1347 2 1358 2 1358 2 1404 2 1404 2 1404	27 31/08/2016 11 31/08/2016 02 31/08/2016 03 31/08/2016 15 31/08/2016 12 31/08/2016 11 31/08/2016 17 31/08/2016		1 1 1 1 1 1 1 1 1	New New New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al	Source AXIS 01014 Network Came AXIS 01014 Network Came	Re Cwner ID 653 654 665 665 665 665 665 665 665 657 659 670	A STREET, STRE		18:10	File
nde Filtens T New (19) T In progress (231) T Chin hald (0) T Closed (306) neers	2 Time 1345 2 1345 2 1347 2 1347 2 1348 2 1348 2 1348 2 1348 2 1404 2 1404	27 31/08/2016 11 31/08/2016 02 31/08/2016 03 31/08/2016 15 31/08/2016 12 31/08/2016 11 31/08/2016 17 31/08/2016 25 31/08/2016		1 1 1 1 1 1 1 1 1 1 1	New New New New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S	Source AXIS 01514 Network Came AXIS 01514 Network Came	Re 0wmer 1D 662 663 664 665 666 666 666 667 668 669 670 671	A STREET, STRE		18:10	Filte
nde Filtens T New (19) T In progress (231) T Chin hald (0) T Closed (306) neers	2 Time 1345 2 1345 2 1347 2 1404 2 1404	27 31/08/2016 11 31/08/2016 12 31/08/2016 13 31/08/2016 15 31/08/2016 16 31/08/2016 17 31/08/2016 17 31/08/2016 25 31/08/2016 28 31/08/2016	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	New New New New New New New New New New	Fault Signal Gerational S Smoke Alerm Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al	Source: AXIS 01614 Network Camr AXIS 01614 Network Camr	Re 662 663 664 665 666 667 668 667 668 669 670 671 671 672	A STREET, STRE		18:10	Filte
nde Filtens T New (19) T In progress (231) T Chin hald (0) T Closed (306) neers	2 Time 2 13.45 2 13.45 2 13.47 2 13.47 2 13.48 2 13.58 2 13.59 2 14.04 2 14.04 2 14.04 2 14.04 2 16.15 2 16.15	27 31/08/2016 11 31/08/2016 02 31/08/2016 15 31/08/2016 15 31/08/2016 12 31/08/2016 11 31/08/2016 17 31/08/2016 25 31/08/2016 15 31/08/2016	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	New New New New New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S	Source AXIS 01014 Network Came AXIS 011614 Network Came	Re Owner ID 662 663 664 665 666 666 667 668 669 670 671 671 672 673	A STREET, STRE		18:10	File
nick Filters T New (19) T In progress (231) T Chi hald (0) T Closed (306) rvers	2 Time 3 344 2 1345 2 1347 2 1347 2 1348 2 1359 2 1404 2 1359 2 1359 2 1347 3 1359 3 1402 3 1402 3 1402 3 1402 3 1404 3 1404	27 31/08/2016 11 31/08/2016 02 31/08/2016 03 31/08/2016 15 31/08/2016 15 31/08/2016 11 31/08/2016 17 31/08/2016 28 31/08/2016 28 31/08/2016 39 31/08/2016	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	New New New New New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al	Source AXIS 01614 Network Came AXIS 01614 Network Came	Pare 10 663 664 665 666 666 667 668 669 670 671 672 671 672 673 673 674	A STREET, STRE		18:10	Fite
ank Filters ▼ New (19) ▼ In progress (231) ▼ Choked (0) ▼ Closed (306)	2 Time 2 1344 2 1347 2 1347 2 1347 2 1348 2 1358 2 1358 2 1359 2 1404 2 1404 2 1404 2 1615 2 1615 2 1627	22 3108/2016 11 31/08/2016 02 31/08/2016 15 31/08/2016 15 31/08/2016 13 31/08/2016 11 31/08/2016 22 31/08/2016 23 31/08/2016 33 31/08/2016 08 31/08/2016 08 31/08/2016	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New New New New New New New New New New	Fault Signal Fault Signal Operational S Smoke Alarm Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S	Source 2005 211514 Network Came AXIS 211514 Network Came	Re 0wner 1D 662 663 664 665 666 667 668 669 670 671 672 673 674 674 675	A STREET, STRE		18:10	Filter
uick Filters ▼ New (19) ▼ In progress (231) ▼ On hold (0)	2 Time 2 1344 2 1347 2 1347 2 1347 2 1347 2 1348 2 1348 2 1348 2 1358 2 1358 2 1404 2 1404 2 1404 2 1404 2 1404 2 1615 2 1615 2 1627 2 1631	27 31 06 2016 11 31 08/2016 22 31 08/2016 23 31 08/2016 15 31 08/2016 15 31 08/2016 13 31 08/2016 23 31 08/2016 28 31 08/2016 29 31 08/2016 39 31 08/2016 06 31 08/2016	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New New New New New New New New New New	Pault Signal Fault Signal Operational S Smoke Alarm Operational S Pro Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al Operational S Pre Smoke Al	Source AXIS 01614 Network Came AXIS 01614 Network Came	Owner         ID           662         663           664         665           665         666           667         668           668         669           670         671           672         673           673         674           675         676	A STREET, STRE		18:10	Filter
uick Filtens ▼ New (19) ▼ In progress (231) ▼ On hold (0) ▼ Closed (306)	2 Time 3 1344 2 1347 2 1347 2 1347 2 1388 2 1359 2 1404 2 1404 2 1404 2 1404 2 1404 2 1605 2 1626 2 1626 2 1627 2 1633 2 1633 2 1633 2 1633 2 1633 2 1632 2 1633 2 1632 2 1633 2 1632 2 1632 2 1633 2 1632 2 1632	27 314062016 21 314022016 02 314022016 02 314022016 15 314022016 15 314022016 15 314022016 17 314082016 25 314022016 15 314022016 08 3140822016 42 314022016		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New	Pault Signal Gurat Signal Operational S Smoke Adam Operational S Pre Smoke Ad Operational S Pre Smoke Ad Operational S Pre Smoke Ad Operational S Pre Smoke Ad Operational S	Source AXIS 01014 Network Came AXIS 01014 Network Came	Re Cwmer ID 653 654 665 665 665 666 666 667 670 671 672 673 673 673 674 675 675 675 675 675 675	A STREET, STRE		18:10	Filter