# G-Core MetaConnect

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										-					

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### 1 Introduction

### 1.1 Overview

The application will establish a direct connection to the camera to retrieve AI analytics data, which will then trigger G-Core actions based on the associated metadata.



### **GCore-Forensic(Optional)**

The 'GCore MetaConnect' application can work with 'GCore-Forensic,' which is capable of collecting object analytics data from each NVR, making it easier for operators to view the data centrally. It also offers basic visualization features that allow users to search for objects by colour or other attributes.



### 1.2.1 Object Search

The application allows users to search the analyze object data based on color, location, or NVR information gathered by "GCore MetaConnect". It provides powerful visualization tools to enhance the user experience, making it easy to interpret and navigate the results.

	HOME	PEOPLE	VEHICLE	FACE	LICENSE PLATE	LLM SEARCH	REPORT	HEATM
		×						
Pers	son Veh	nicle Face	e LPR			40		
F								
2025-03-	-15	2025-0	03-15				2	
<b>∧</b> 05	• : 01	<b>^</b> 09	<b>*</b> : 25	atego Color	ory : Car : Gray	Cat Colo	egory : Per or : White /	son Blue
All Sites	•	•	• •	ion : Offic	Geutebruck ce (H)	Loc	cation : Loa Dock	ding
All NVRs	i		~	5, 20 A	)25, 09:25:43 AM	Mar 1	5, 2025, 09 AM	):25:42
All Came	iras	Search	~				Ja.	4

### **1.2.2** Image Search via Text or Image(Reverse Image Search)

You can use specific keywords, phrases, or descriptions to search for images related to those terms. This can help you find similar shapes or images, which can assist in identifying objects, locations, or other details within the image.

i.e) A man who drink coffee.



### 1.2.3 Grafana Dashboard(Optional)

Grafana is an open-source analytics and interactive visualization web application that allows users to ingest data from various sources, query this data, and display it on customizable charts for easy analysis.



## 2 **Object Analytics**

Al-based object analytics on camera can detect, classify, track, and count humans, vehicles, and different types of vehicles. With Al-driven classification, you can focus on objects of interest and events that require attention, making your monitoring more effective.

### 2.1 Metadata By Camera Manufacturer

This section provides a brief overview of metadata and IVA(Intelligent Video Analytics) as specified by different manufacturers.

	Person	Vehicle	Col	our	Clot	hing		Oth	iers		Audio
			Clothing	Vehicle	Upper	Lower	Gender	Hat	Mask	Glass	
Axis	0	0	0	0							
Bosch	0	0									
iPRO	0	0	0	0	0	0	0	0	0	0	
Hanwha	0	0	0	0	0	0	0	0	0	0	0

	IVA	Line crossing	Count
	Enter/Exit/Intrusion		
Axis	N/A	N/A	Crossline count Occupancy in Area
Bosch	0	N/A	N/A
iPRO	0	0	N/A
Hanwha	0	0	People count Queue count Vehicle count Crowd count

### 2.2 Colour By Camera Manufacturer

Some less frequent colours(\*) may be remapped to one of the other colour.

				• • •	,								
	Beige	Black	Blue	Brown	Gray	Green	Orange	Purple	Pink	Red	White	Yellow	
Axis	0	0	0	*	0	0	*	*	*	0	0	0	
Bosch													
iPRO		0	0	0	0	0	0	0	0	0	0	0	
Hanwha		0	0	0	0	0	0	0	0	0	0	0	

### 2.3 G-Core Metadata with a Best snapshot

'G-Core MetaConnect' investigations by streamlining search for objects, people, or incidents without any analytics servers. Some of camera metadata allows you to efficiently pinpoint a single video clip of interest in G-Core and G-SIM, reducing analysis time from hours to minutes traditional approaches, where the camera sends data to servers for analysis.



## 3 Quick Startup

This is a quick startup list on what you need to do to use this application. Please see the details below to set up each setting.

- 1) Add a camera on GCore for both 'Hardware' and 'Media channels'
- 2) 'Permanent recording' and 'Live streaming' need to activated on 'Media channels'
- 3) Enable the AI features on the camera. This process is slightly different for each manufacturer.
- 4) Create a GCore action for each AI feature and record it for both 'Media Channel' and 'DIF'—if possible
- 5) Add the camera to 'Metaconnect' using the user interface.

### 4 Application Installation

We recommend installing the application on the G-Core machine for automatic configuration. This setup will:

• Automatically populate the camera IP, user ID, and password.

If you choose not to use the G-Core machine, you will need to:

• Manually enter the camera IP, user ID, and password.

#### 4.1 **Prerequisites**

If you need to use the Grafana dashboard for visualizing charts, you will need to use the existing G-Core database or install SQL Express on the machine.

Please skip to '<u>3.2. Installation</u>' if you don't need to use Grafana dashboard.

#### 4.1.1 Database port

We need to know which port is being used by the G-Core or SQL database so that we can configure it for the application.

You can also find the SQL configuration manager from the Start menu.

- i.e) "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft SQL Server XXX\Configuration Tools"
- 1) Click Start > Programs > "SQL Server XXXX Configuration" > SQL Configuration Manager.



- 2) In SQL Server Configuration Manager, expand SQL Server Network Configuration and then select Protocols for GCORESQL on the left panel. To identify the TCP/IP Port used by the SQL Server Instance, right click on TCP/IP and select Properties from the drop down as shown below.
- 3) In TCP/IP Properties window click on the IP Addresses tab and you will see the Port used by the instance of SQL Server in either TCP Dynamic Ports for a dynamic port or TCP Port for a static port as highlighted in the snippet below.



### 4.2 Installation

The first step for installing a piece of software on Windows is to download the software's installation executable. This executable (a .exe file) contains the tasks our computer must perform to install the software. Running the executable, therefore, installs the software.

#### 4.2.1 G-Core Setting & License Key Setting

Click the application installation file to start the installation. While you can change the input information after installation, it's recommended to provide accurate details during setup, especially for the database configuration.

- 1) G-Core IP Address, User name and User password
- 2) License key

Setup - G-Core MetaConnect		-	
G-Core Settings			(10)
Please enter following information and cli-	ck Next.		
G-Core IP Address:			
127.0.0.1			
Username:			
sysadmin			
Password:			
•••••			
Show password			
License Key:			
REPLACE_WITH_APP_LICENSE_KEY			

#### 4.2.2 Application Login & Other Setting

- 1) Application port, and user login credentials for User interface.
- 2) Forensic Server Configuration.

(Optional: If you want to deliver the meta analytics data to a central server)

3) Database configuration.

(Optional: If you want to store the count data in a database for use with Grafana)

Please enter followin	g information and click I	Next.		
State:				
Default				
Site:				
Default				
Management Port:				
10923				
Login User:				
sysadmin				
Login Password:				
•••••				
Show password				
Eorensic Server (	onfiguration			
Deteksor Configu				

### 4.2.3 G-Core Forensic Setting(optional)

- 1) User login credentials for the 'GCore Forensic' application: These can be updated at any time after installation.
- 2) Forensic Server API: The API details for connecting to the forensic server.
- 3) Token information: This can be obtained from the 'GCore Forensic' server and can be updated at any time after installation.

				```
Please enter follow	ing information a	and click Next.		
User:				
sysadmin				
Password:				
•••••				
Show password				
Forensic Server:				
http://localhost:10	931			
Forensic Server To	ken:			

#### 4.2.4 G-Core Database Setting(optional)

if you want to use it for people or vehicle counting to provide statistical data through Grafana.

Setup - G-Core MetaConnect		-		$\times$
Database Settings(option)				
Please enter following information and click Next.				
Server:				
localhost\\GCORESQL,1433				]
Database:				
META_CONNECT				
Username:				
Password:				
Show password				
Option:				
Trusted_Connection=Yes;MultipleActiveResultSets=True;Encrypt=F	False			]
☑ DB Login with Windows authentication				
	Back	Next	Can	cel

### 5 Application Management

Once the installation is complete, the 'G-Core MetaConnect.exe' will be created on your desktop. You will need to use it to manage the application.

The default login credentials are 'sysadmin' and 'masterkey', unless you changed them during installation.

### 5.1 Application Configuration

We need to add the media channels that will be used to connect the camera and retrieve the object analytics results from the camera.

#### 5.1.1 Add the Media channel

Below is the main screen of the user interface and you can add or delete the media channel or update it.

Mouse over to the 'Media Channels' section to display the menu for adding an 'IP Channel' or an 'A.I. Box Channel.', and please add the 'A.I. Box' first to enable the addition of its channels.

GCore MetaConnect				- 🗆 ×
Action	Media Channels	Channel Information/	Status	l
User	Main Entry	Manufacturer	AXIS	
sysadmin	Intercom PTZ	Media Channel	PTZ	
Password	Add IP Channel	Media Channel Id	13	
·····	Delete Channel	Device Setting		×
LogIn	Create A.I Box Channel	Manufacture	Axis 🗸 🗸	
Logout		Media Channel	Back External L	
G-Core Connection Status		RTSP URL	rtsp://192.168.231.126:554/axis-media/media	i.amp
G-Core Configuration		RTSP User r	root	
		RTSP Password	••••••	
		Bounding Box	Yes 🗸 🗸 🗸	
Forensic Configuration		Best Snapshot	Yes 🗸 🗸	
Database Configuration		Ghost Snapshot	No 🗸	
License	A.I Box —	Snapshot Priority	Yes 🗸 🗸	
Version	No device found.	Pre History Seconds		
		Minimum Likelihood	0.60	
		LRP Direction	No 🗸	
			Save	

1) Camera manufacturers : It will automatically select the appropriate manufacturer when you choose the media channel. However, this may not occur if there is a communication timeout with the camera or if the application was not installed on the G-Core machine.

Note : **Please ensure that the correct manufacturer is selected, as this is crucial** for proper data parsing by the application. Choosing the wrong manufacturer may cause the application to stop working.

- 2) Media Channels : Once you select the media channels, No. 1, 3, 4, and 5 will be automatically populated if the application was installed on the G-Core machine. Otherwise, please provide this information manually.
- 3) Bounding Box : A bounding box, or box, is simply a rectangle drawn on an image to highlight the presence of an object of interest at that spatial location.
- 4) Best Snapshot : The analytics metadata streams can also be configured to include cropped images of detected classified objects using the Best Snapshot feature.
- 5) Ghost Snapshot : If the metadata does not include the snapshot image, a blank image will be sent to map the event with the snapshot. Since the snapshot does not have the data to link to the metadata, it is recommended not be left Blank to avoid any confusion.
- 6) Snapshot Priority : The application will attempt to send the metadata information along with the snapshot image, but there is a drawback as well.
- 7) Minimum Likelihood : Likelihood will help you obtain more accurate data from the camera by filtering the data based on this threshold.
- 8) LRP Direction : The application will use this information to store data on vehicle direction, even if multiple cameras supply the data. This is important to ensure accuracy and avoid potential errors.

#### 5.1.2 Add the Hanwha A.I Box

Mouse over to the 'A.I Box' section to display the menu for adding an 'A.I Box'.

GCore MetaConnect				- 🗆 X
Action	f Media Channels	ר	Channel Information/S	Status
User	Main Entry		Manufacturer	AXIS
sysadmin	Intercom PTZ		Media Channel	PTZ
Password			Media Channel Id	13
•••••			rtsp uri/ip	rtsp://192.168.231.113:554/axis-media/media.amp?video=0&
LogIn			Username	root
			MinimumLikelihood	0.6
		ſ		- 🗆 ×
G-Core Connection Status			Hanwha A.I Box ——	
G-Core Configuration			Name	
Login Configuration			Url	http://127.0.0.1
Forensic Configuration			Timeout	5
Database Configuration			Username	
License		╢	Password	
	CALI Box		1	Save
Version	No device found.	1		
	Add Al Box	ľ		
	Delete Al Box			
	Pafrash Al Box			

### 5.1.3 Add the Hanwha A.I Box channel

Mouse over to the 'Media Channels' section to display the menu for adding an 'A.I. Box Channel.'.

GCore MetaConnect				- 🗆 ×
ſ <sup>Action</sup>	Media Channels	Channel Information/	Status	
User	Main Entry	Manufacturer	AXIS	
sysadmin	PTZ	Media Channel	PTZ	
Password		Media Channel Id	13	
•••••	Add IP Channel	Povice Setting		- 🗆 X
LogIn	Delete Channel Refresh Channel	Manufacture	AXIS	~
Logout	Create A.I Box Channel	Media Channel	PTZ	×
G-Core Connection Status		A.I Box	AIB-800	~
G-Core Configuration		A.I Camera	CAM 1/Q6125-LE/192.168.231.113	~
Login Configuration		Bounding Box	Yes	~
		Best Snapshot	Yes	✓
Forensic Configuration		Ghost Snapshot	No	$\sim$
Database Configuration		Snapshot Priority	Yes	
License	A.I Box	Pre History(Sec)	0	
Version	AIB-800	Likelihood	0.60	
		LRP Direction	No	~
			Save	

1) A.I Camera : It should match the 'Media Channel' you have on the G-Core, from which you can get the A.I. analytics data in the application.

### 5.2 Bounding box & Best Snapshot

Some cameras may have a transmission interval for sending thumbnails or delivering metadata (e.g., object classification, colour, etc.) when an object is analysed. This can sometimes result in ghost bounding boxes or the absence of a best snapshot image, depending on priority.

Please note that if you enable 'Snapshot Priority' and 'Best Snapshot,' the camera may not include the cropped (best snapshot), which will not generate the GCore event. If you still want to use it, enable 'Ghost Snapshot' or disable 'Snapshot Priority.'.

1) "Snapshot Priority" – Yes

The application will send the object detection information when the camera's payload (ONVIF Profile M) includes the 'best snapshot' data, which most camera manufacturers provide when objects are analysed, such as colour or object classification.

2) "Snapshot Priority" – No

You may want to use this option when you need to obtain object classification or object counting data (e.g., for people or vehicles) without colour.

In this case, we cannot guarantee that the object detection information matches the best snapshot image. This discrepancy may occur because the information could be provided separately by the camera, or delays in analysing the image may cause a lag in displaying the object detection information from GCore. You might need to play back the footage to see the detected object clearly.

3) "Ghost snapshot" - Yes

It would be used when you disable the 'Snapshot Priority' to avoid confusion, as we cannot guarantee that the object detection information matches the best snapshot image. The application will attempt to create a blank image to provide a better user experience when the camera's payload (ONVIF Profile M) doesn't have the 'best snapshot'.

		-		
Option	Axis	Hanwha	i-PRO	Bosch
Bounding Box	-	0	0	0
Best Snapshot	0	0	0	N/A
Snapshot Priority	0	0	0	N/A

Below are the general recommended configurations for each manufacturer.

Ghost snapshot	-	-	-	N/A

#### 5.2.1 Axis

1) "Snapshot Priority" - Yes

If you enable 'Snapshot Priority,' you will get the best snapshot of the detected object, as shown on the right screen. However, if the object is detected from far away, the camera may not capture the best snapshot image.



2) "Snapshot Priority" – No & "Ghost snapshot" - Yes

If you disable 'Snapshot Priority,' you may not get the best snapshot image, as the application prioritizes object detection information over capturing the snapshot.



#### 5.2.2 Hanwha

1) "Snapshot Priority" - Yes

If you enable 'Snapshot Priority,' you will get the best snapshot of the detected object, as like following right screen, but you may also experience ghost bounding boxes. You might need to play back the footage to see the detected object clearly.



2) "Snapshot Priority" – No & "Ghost snapshot" - Yes

If you disable 'Snapshot Priority,' you might get a good bounding box for the object, but the snapshot image may not be the best, or it may still show the previous snapshot, which could lead to confusion.

You may not receive colour information for the detected object, as it will be provided by the camera with the best snapshot image.



#### 5.2.3 **i-PRO**

There are two types of ONVIF meta information as follows.

- Analytics stream : The detection frame information is sent regularly but G-Core only take first metadata stream if it has the person or vehicle information, and it makes ghost bounding box as like following. It will have object detection attributes only when the object is analysed with the 'Best Shot.'
- 2) Event stream : Send thumbnails and meta information. The transmission interval is different for each applications. The transmission interval of thumbnails and metainformation is 2 second or 3 seconds interval.
- 3) "Snapshot Priority" Yes use the 'Event Stream' to retrieve thumbnail images from the camera.

If you enable 'Snapshot Priority,' you will get the best snapshot of the detected object, as like following right screen, but you may also experience ghost bounding boxes. You might need to play back the footage to see the detected object clearly.



#### 5.2.4 Axis - Multi head camera

Please add the camera number to the RTSP URL if the camera has multiple sensors.

rtsp://x.x.x.x:554/axis-media/media.amp?camera=2

					-	×
۴D	evice Setting ———					
	Manufacture	AXIS	~			
	Media Channel	TEST - Axis P3715 (2)	~			
	RTSP URL	rtsp://IP-ADDRESS:554/axis-media/media	.am	picamera=2		

## 6 Camera Configuration

### 6.1 Axis Camera Configuration

AXIS Object Analytics is supported and preinstalled in firmware on compatible cameras, it cannot be downloaded separately. To run the application, MLPU cameras must have firmware 10.2 (or higher) and DLPU cameras must have 10.3 (or higher).

The analytics metadata streams can also be configured to include cropped images of detected classified objects using the Best Snapshot feature, but you must have the firmware 11.11.73(or higher).

#### 6.1.1 Axis Object In Area

- 1) Open your web browser and go camera web page > App > Axis Object Analytics.
- 2) Create "Object in Area" as like following if you don't have it.



#### 6.1.2 Axis Cross counting

 Add two 'Crossline Counting' configurations as follows. The names should be comma-separated values because the system supports direction-based counting, so we need two configurations to accurately track occupancy.



#### 2) Select the 'Human' option to count the people.



- 3) Axis allow 16 characters for the naming, and please use comma separate value to use it for Grafana statistics dashboard.
  - Ground, In : The 'First value (Ground)' indicates the floor level, while selecting 'In' will count the people entering.
  - Ground,**Out** : The 'First value (Ground)' indicates the floor level, while selecting 'Out' will count the people leaving.
  - Please enable the 'Reset counts at midnight', and 'Passthrough threshold'.

Create new scenario	Configure <sup>®</sup> Ground,In	×
		Virtual line Adjust and move the line to the part of the scene where you want to count objects. Abjects have to scenario the direction of the arrows to be counted. Change trigger direction Reset line Counting settings Send events with counting data at one-minute Misset counts at midnight Assthrough threshold Number of counts between events
		Cancel Back Finish

4) Please create a rule for 'Ground, Out.' Below, you'll find the expected screen layout for reference.



### 6.2 Hanwha Camera Configuration

Object Detection technology classifies the types of objects (person, face, vehicle, license plate) and identifies their location in the video. Object Detection adopts deep learning algorithms to learn images of objects (person, face, vehicle, license plate) and detect similar objects within an image.

#### 6.2.1 Object Detection

1) Open your web browser and go camera web page > Settings > Analytics > WiseAI

2) Enable the Object detection and Bestshot & Attributes

#### 6.2.2 People Count

1) Open your web browser and go camera web page > Analytics > WiseAI



2) Go to Statistics > People counting.

Since Hanwha does not allow the use of commas or any other specific characters as delimiters, the rule name needs to be 'floor level.'

			Analytics	Statistics	Setup	
Counting	Exclude area	Report	Ľ	CH 1		
List			Rule2			
No.	Name		I	Direction	Total	
1	Rule2	Ū		IN	0	
				OUT	0	

### 6.3 **i-PRO Camera Configuration**

### 6.3.1 Vehicle and People Detection

- Open your web browser and go camera web page > Settings > Detailed settings > Ext. software
- 2) Please install the 'AI Vehicle detection" and 'AI People detection' if you don't have it.

### 7 G-Set & G-SIM Configuration

You need to add the 'G-Set' event and 'Process Data Filter' to the G-SIM in order to search the object analytics data, including the best snapshot image.

### 7.1 Forensic Search Hierarchy Diagram.

The following hierarchical structure could be used for the management console.

Forensic Search	Human Search	
All All All All All Bus Car Sedan Suv Stur Van All Black Black Blue Blue Blue Sold Sold Suv Truck Van Navy Orange Pink Purple Red Silver White Yellow Unknown	All Male Female All Short Long All Blue Blue Blue Brown Cyan Gold Gray Green Lime Navy Orange Pink Purple Red Silver Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vinte Vin	Bottom Clothing Pe Trousers Short Long

### 7.2 Intelligent Video Analytics Search.

Intelligent Video Analytics

#### **Object Detection**



### 7.3 G-Set & Management Console Configuration.

#### 7.3.1 Person

'Video result' need to be used to receive event notifications.

Fields	Value	Comments
value A(64-bit)	1002	Fixed value
value B(64-bit)	1:Hanwha, 2 :iPro, 3:AXIS, 4:Bosch	Fixed value
value C(64-bit)	Blank : All, 1:Male, 2:Female	Fixed value
value D(64-bit)	Blank : All, 1: Face mask	Fixed value(i-PRO only)
value A (32-bit)	Blank : All, 1: Optical	Fixed value(i-PRO only)
value B (32-bit)	Blank : All, 1: Hat	
value C (32-bit)	Blank : All, 1: Belonging	
	201 – Upper clothing length : Short	
value D (32-bit)	202 – Upper clothing length : Long	
time stamp A	Date & Time	
time stamp B		
value A (double)	Likelihood	
value B (double)	1000	Fixed value
text A	Person	Fixed value
text B	Beige, Black, Blue, Brown, Gray, Green, Lime, Orange, Purple, Pink, Red, White, Yellow, Unknown	Upper clothing colour
text (	Black, Blue, Brown, Gray, Green, Lime, Orange, Purple, Pink, Red, White Yellow Unknown	Lower clothing colour
-		
text D	Long, Short, Trousers	Lower clothing
text E		
text F		

#### 1) G-Set configuration

Please change the channel if you want to receive notifications.

Video result: value A (64-bit):	1002: channel: May Gibbs Place (12):
Video result.	
X value A (64-bit)	4000
value R (64-bit)	
	0
value C (b4-bit)	
value D (64-bit)	
value A (32-bit)	
value B (32-bit)	
value C (32-bit)	
🗌 value D (32-bit)	
🗌 time stamp A	2024/09/11 15:57:17,610 GMT+10:00
time stamp B	2024/09/11 15:57:17,610 GMT+10:00
value A (double)	
value B (double)	
text A	
text B	
text C	
text D	
text E	
text F	
🗙 channel 🛛 🥤	May Gibbs Place
🗌 result data set	22000

2) Forensic search for all of camera - Management Console configuration

-										
F										
D	uter/Time fields 🗿 Use first action time 🔹 Use event time									
s	earch criteria Definition						Field Name in Events Tab	le	Search Parameters	
		Name (Primary Language)	Name (Secondary Language)	Selector Type	Group		VideoResult		Allow Wild Card	Key Field
	Class	Class		Combo Box	•	0	EventString_A			Z
	Item Text (Primary Language)			Item Text (Secondary Langua	ge)			Field \	/alue	
	AI									
	Human							Human		
	Ricycle							Rievela		
	Color	Color		Combo Box			EventString_B			
	Item Text (Primary Language)			Item Text (Secondary Langua	ge)			Field V	falue	
	AI									
	Beige							Belge		
	Black							Risck		
	<ul> <li>Tagld</li> </ul>	Tagld		Combo Box	•	0	EventDouble_B			

3) Forensic search for Axis - Management Console configuration

Date/Time folds O Use first action time 🕘 Use event time									
Search criteria Definition	Jearch offerta Definition Field Name In Events Table Search Parameters								
ID	Name (Primary Language)	Name (Secondary Language)	Selector Type	Group	VideoResult	Allow Wild Card	Key Field		
<ul> <li>Clothing top colour</li> </ul>	Clothing top colour		Combo Bax	•	0 🛔 EventString_B	* 🖌	7		
Clothing bottom colour	Clothing bottom colour				0 🚦 EventString_C	• 🜌			
► TagiD	TagiD		Combo Box		0 ‡ EventInt64_A	•			
ManufactureID	ManufactureID					•			

4) Forensic search for Hanwha - Management Console configuration

Date/Time fields   Use first action	time 🌒 Use event time						
Search criteria Definition					Field Name in Eve	nts Table Search Parameters	
ID	Name (Primary Language)	Name (Secondary Language)	Selector Type	Group	VideoResult	Allow Wild Card	Key Field
<ul> <li>Gender</li> </ul>	Gender		Combo Box	•	0 🖞 EventInt64_C	• 🗆	
<ul> <li>Clothing top</li> </ul>	Clothing top					•	
<ul> <li>Clothing top colour</li> </ul>	Clothing top colour		Combo Box		0 🕴 EventString_B	* 🗸	
<ul> <li>Clothing bottom type</li> </ul>	Clothing bottom				0 🚦 EventString_D	•	
<ul> <li>Clothing bottom colour</li> </ul>	Clothing bottom colour		Combo Box		0 🖞 EventString_C	* 🖌	
► Hat						*	
► Bag	Bag		Combo Box		0 📜 EventInt32_C	• 🗆	
► TagiD	TagiD				0 🙏 EventInt64_A	▼ 🔲	
ManufactureID	ManufactureID		Combo Box		0 🖞 EventInt64_B	• 🗆	

5) Forensic search for i-PRO - Management Console configuration

Filter configuration								
Date/Time fields   Use first action	time 💿 Use event time							
Search criteria Definition						Field Name in Events Table	Search Parameters	
ID	Name (Primary Language)	Name (Secondary Language)	Selector Type	Group		VideoResult	Allow Wild Card	Key Field
<ul> <li>Gender</li> </ul>	Gender		Combo Bax	•	0	EventInt64_C	• 🗆	
Clothing top	Clothing top					EventInt32_D	•	
<ul> <li>Clothing top colour</li> </ul>	Clothing top colour		Combo Bax		0	EventString_B	• 🖌	7
Clothing bottom type	Clothing bottom					EventString_D	▼ 🔳	
Clothing bottom colour	Clothing bottom colour		Combo Bax		0	EventString_C	• 🖌	
<ul> <li>Glasses</li> </ul>	Glasses						•	
► Hat	Hat		Combo Box		0	EventInt32_B	• 🗆	
► Bag	Bag					EventInt32_C	•	
► TagiD	TagiD		Combo Box		0	EventInt64_A	• 🗆	
<ul> <li>ManufactureID</li> </ul>	ManufactureID		Combo Box		0	EventInt64_B	* 🗖	

### 7.3.2 Vehicle

'Video result' need to be used to receive event notifications.

Fields	Value	Comments
value A(64-bit)	1003	Fixed value
value B(64-bit)	1:Hanwha, 2 :iPro, 3:AXIS, 4:Bosch	Fixed value
value C(64-bit)		
value D(64-bit)		
value A (32-bit)		
value B (32-bit)		
value C (32-bit)		
value D (32-bit)		
time stamp A	Date & Time	
time stamp B		
value A (double)	Likelihood	
value B (double)	1000	Fixed value

text A	Bike, Bus, Car, Motorcycle, Sedan,SUV,Truck, Van, PickupTruck,Pram, Caravan,Train, TwoWheels	Fixed values
text B	Black, Blue, Brown, Gray, Green, Orange, Purple, Pink, Red, White, Yellow, Unknown	Fixed values
	Blank,	
	Down, Up, Right, Left, UpLeft, UpRight,	
text C	DownRight,DownLeft	Hanwha, i-PRO
text D		
text E		
text F		

#### • G-Set configuration

Please change the channel if you want to receive notifications.

<b>Video result: value A (64-bit):</b> Video result.	1003; channel: Mav Gibbs Place (12);
🗵 value A (64-bit)	1003
🗌 value B (64-bit)	0
value C (64-bit)	
value D (64-bit)	
value A (32-bit)	
value B (32-bit)	
value C (32-bit)	
value D (32-bit)	
time stamp A	2024/09/11 15:59:39,009 GMT+ 10:00
time stamp B	2024/09/11 15:59:39,009 GMT+ 10:00
value A (double)	
value B (double)	
text A	
text B	
text C	
text D	
🗌 text E	
🗌 text F	
🔀 channel	May Gibbs Place
🗌 result data set	00000

• Forensic search for all of camera - Management Console configuration

You can use the either 'forensic search' example or following example.

Date/Time fields	) Use first action time 🔘	Use event time						
Search criteria Definition Field Name in Events TatSearch Parameters								
ID	Name (Primary Language)	Name (Secondary Language)	Selector Type	Group	VideoResult	Allow Wild Card	Key Field	Quicksearch
Vehicle	Vehicle		Combo Box	•	0 🛔 EventString_A	•		
▶ Colour	Colour		Combo Box		0 靠 EventString_B	•	<b>y</b>	
TagID	TagID		Combo Box		0 # EventInt64_A	•		

### 7.3.3 Face

'Video result' need to be used to receive event notifications.

Fields	Value	Comments
value A(64-bit)	1001	Fixed value
value B(64-bit)	1:Hanwha, 2 :iPro, 3:AXIS	Fixed value
value C(64-bit)	Blank : All, 1:Male, 2:Female	Fixed value
value D(64-bit)	Blank : All, 1 : Face mask	Fixed value
value A (32-bit)	Blank : All, 1: Optical	Fixed value
value B (32-bit)	Blank : All, 1: Hat	Fixed value
value C (32-bit)	Blank : All, 0 : No Beard, 1: Beard	iPRO only
	101 – Short Hair length	iPRO only
value D (32-bit)	102 - Long Hair length	
time stamp A	Date & Time	
time stamp B		
value A (double)	Likelihood	
value B (double)	1000	Fixed value
text A		
text B		
text C		
text D		
text E		
text F		

• G-Set configuration

Please change the channel if you want to receive notifications.

P Video	o result; value A (64-bit): 1	1001; channel: Roller Door South Facing (34);
Video	o result.	
× value A	. (64-bit)	1001
value B	(64-bit)	
🗖 value C	(64-bit)	
🗌 value D	(64-bit)	
value A	(32-bit)	
value B	(32-bit)	
value C	(32-bit)	
value D	(32-bit)	
🗌 time sta	amp A	2024/09/11 16:00:20,162 GMT+ 10:00
🗌 time sta	amp B	2024/09/11 16:00:20,162 GMT+ 10:00
value A	(double)	0
value B	(double)	
text A		
text B		
text C		
text D		
🗌 text E		
text F	/	
🗙 channe	4 <b>(</b>	Roller Door South Facing
🗌 result d	ata set	00000

• Forensic search for all of camera - Management Console configuration

#### 7.3.4 South classification & Audio Detection

'G-Tech/AI Info' need to be used to receive event notifications.

Note : 'Info data' can be Blank for all of events for 'both Audio Analytics' and 'Audio Detection'.

Field	Value	Comments
Info data	scream	
	gun shot	
	explosion	
	glass breaking	
	glass_breaking	
	audio over threshold	

1) G-Set configuration

Event list	Settings		
	G-Tect/Al Info ; chann This action will be fired	eel: PND-A9081RV (1); to answer to an GTectAlinfo request.	
<ul> <li>G-Tect/Al report; channel: PND-A9081RV (1);</li> <li>VCA Stopped vehicle; channel: PND-A9081RV (1);</li> <li>VCA Object count; channel: PND-A9081RV (1);</li> <li>VCA Alarm Enter Field; channel: PND-A9081RV (1);</li> </ul>	X channel	PND-A9081RV	
<ul> <li>VIPK raw data; country: Hanwma ;</li> <li>VCA Alarm Crowing Detected; channel: PND-A9081RV (1);</li> <li>VCA Alarm CrossingLine; channel: PND-A9081RV (1);</li> <li>VCA Alarm Counter; channel: PND-A9081RV (1);</li> <li>G-Tect/VMD report;</li> <li>NPR reconnition; channel: PND-A9081RV (1);</li> </ul>	X Info data	scream	
LPR recognition; channel: PND-A9081RV (1); Video result; channel: PND-A9081RV (1); Face recognition event; StopBy OnStart			

2) Management Console configuration

Crag and drop actions from right to left GTectAlInfoRequest GTectAlObjectCount GTectAlReport GTectAlNalyticsFailoverNotific GTectAnalyticsFailoverNotific	Chag and drop actions from night to left  GTectAllAlamFinished  GTectAllinfoRequest  GTectAllObjectCount  GTectAllopertNotific  GTectAnalyticsFailoverNotific  GTectAnalyticsIveCheck	Drag and drop actions from nght to left Secta Alarm/Sinished GTect/Allarm/Sinished GTect	CreckAlReport     Solution     Solution						
Drag and drop actions from right to left Schuldwiss FailowerNotific GTectAINobjectCount GTectAINobjectCount GTectAINobjectCount GTectAINobjectCount GTectAINobjectCount GTectAINobjectCount	Orag and drop actors from night to left  SectAlAlgerof Inished GTectAlAlgerof GTectAlAlgerof GTectAnalyticsFailoverNotific GTe	Crag and drop actions from nght to left Second Alarm Finished GTectAllAlarm Finished GTect	chang and outpy as a contained in the second method of the second method method of the second method method of the second method m						
Drag and drop actions from ngint to left GTeckNInfoRequest GTeckNINfoRequest GTeckNIReport GTeckAnalyticsFailoverNotific GTeckAnalyticsLiveCheck	Orag and drop actions from nght to left  SectaMinBoxed GTectANDbjectCount GTectANDbjectCo	Crag and drop actions from right to left GTect/AlAtarmFinished GTect/AlAtarmFinished GTect/AlAtarmFinished GTect/AlReport GTect/AnalyticsFalloverNotific GTect/AnalyticsLiveCheck	inght to left   GTectAnalyticsEveCheck  GTectAnalyticsLiveCheck						
Criag and drop actions from nght to left S S GTectAlInfoRequest GTectAlReport GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlIn	Crag and drop actions from right to left GTectAl/AliamFinished GTectAl/InfoRequest GTectAl/ObjectCount GTectAl/Report GTectAnalyticsFaloverNotific GTectAnalyticsFaloverNotific GTectAnalyticsLiveCheck	Crag and drop actions from right to left Sectal Alarm Finished GTectAllafm/Finished GTectAllinfoRequest GTectAllobjectCount GTectAllafticsFailoverNotific GTectAnalyticsFailoverNotific GTectAnalyticsLiveCheck	night to left  GTectAnalyticsFailoverNotific  GTectAnalyticsLiveCheck						
Orag and drop actions from right to left Schuld Sch	Drag and drop actions from night to left S CTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest G	Drag and drop actions from nght to left >> GTectAllAamFinished GTectAllInfoRequest GTectAllReport GTectAlReport GTectAllSeFalloverNotific GTectAnalyticsFalloverNotific	right to left   GTectAnalyticsFaloverNotific  GTectAnalyticsFaloverNotific  GTectAnalyticsFaloverNotific						
Chag and drop actions from nght to left ST CetAlInfoRequest GTectAlInfoRequest GTectAlReport GTectAlReport GTectAnalyticsFailoverNotific	brag and drop actions from right to left  GTectAl/AliamFinished GTectAl/InfoRequest GTectAl/Report GTectAl/Report GTectAl/Report	Drag and drop actions from right to left	GTectAlReport     GTectAnalyticsFailoverNotific						
Drag and drop actions from right to left S S CectAlInfoRequest GTectAlInfoRequest GTectAl	Drag and drop actions from right to left	Drag and drop actions from nght to left >> GTectAlAam/Finished GTectAlInfoRequest GTectAlInfoRequest GTectAlReport GTectAlReport	night to left >> GTectAiReport GTectAnalyticsFailoverNotific	ic					
Drag and drop actions from right to left S CTECKAI/Report S CTECKAI/Repo	Drag and drop actions from right to left Section Count GTectAl/Report	Crag and drop actions from nght to left SS	right to left >>						
GTectAlInfoRequest . GTectAlObjectCount E right to left Set GTectAlReport B	GTectAl/AlarmFinished GTectAl/InfoRequest GTectAl/DigetCount right to left	Drag and drop actions from right to left GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished GTect/AlfarmFinished G	right to left GTectAIReport		1000				
GTectAlInfoRequest g GTectAlObjectCount g	GTectAlAlarmFinished GTectAlInfoRequest GTectAlObjectCount	GTectAlAlarm GTectAlAlarmFinished GTectAlInfoRequest GTectAlObjectCount GTectAlObjectCount			Audie	Audio			
GTectAlInfoRequest g	GTectAllarmFinished GTectAlInfoRequest	GTectAlAlarm GTectAlAlarmFinished GTectAlInfoRequest GTectAlInfoRequest GTectAlInfoRequest	Drag and drop actions from		fio An				
GTectAlInfoRequest g	GTectAllAlarmFinished GTectAllInfoRequest	GTectAlAam Finished GTectAlAim Finished GTectAlInfoRequest g	GTectAlObjectCount		nalyt	naiyi			
	GTectAIAlarmFinished	GTectAlAlarm GTectAlAlarmFinished	GTectAlInfoRequest	•	tics	ncs			
Q IECIAIAMITETINISTIC	CTrack Margaret Friday and	GTectAlAlarm	GTectAlAlarmi-Inished						

### 7.3.5 IVA(Intelligent Videl Analytics)

'Video Result' need to be used to receive event notifications.

Fields	Value	Comments
Int64FieldA	2002	Fixed value
IIII04HEIUA	2002	
Int64FieldB	0	Only for Axis camera
	1	0 : de-active

		1 : active
text A	IVA	Fixed value
text B		Blank or Variable(i.e: Area1, Line2)
text c		Blank, Loitering, Intrusion, Enter, Exit, Appear/Disappear, Right, Left, Up, Down
text E		Blank or Loitering, Intrusion, Enter, Exit, Appear/Disappear, Right, Left, Up, Down

#### 1) G-Set configuration



2) Management Console configuration

	* Clone	+ Add	- Delete	Settings	Configuration										
ATM Audi Casl	l io Analytics h								0	perator Co	nsole Previev	v			_
Face	e recognition			Events in fi	lter		Events available			Action					
Face	eRec			VideoRe	sult		VCStretchMod	le 🛛		Rule					
NPR							VehicleMoving								
Obje	ect Detection						VehicleStop		g	2					
503							VideoContrast	Detected	the state	1 fear					
							VideoContrast	Failed	1						
				right to left	d drop actions from right to left	<<	VideoInterrupt	ed	1 more						
						~ ~ ~	VideoRestore		Intelli						
							VideoSetImag	eBrightness							
							VideoSetImag	eContrast							
							VideoSetImag	eSaturation	•						
											_	_	_	_	
				Date/Time	ields 💿 Use firsl	action tin	ne 💿 Use eve	nt time							
				Search crit	ria Definition						Field Name in E	veSearch Parame	eters		Add
							Name (Secondary Language)								Delete
				Action	Action			Combo Box	٠	0 🌻	EventString_C	'			Up
				Rule	Rule			Text	•		EventString_B	' 🗖			Down

### 7.3.6 **Object Detection(Not in use)**

'G-Tech/AD Alarm' need to be used to receive event notifications.

Fields	Value	Comments
Object Direction		Person, Vehicle, Face, LicensePlate, Bicycle, Car, Motorcycle, Bus, Truck
(EvenString B)		

#### 1) G-Set configuration

Event configuration		
の (4) 長  階 能   路 🗙   全 🕂 🎫	1	
Event list   Hanwha - Audio Analytics  LLM-Image-Analyzer - PND-A9081RV	<ul> <li>Settings</li> <li>G-Tect/AD alarm; channel:</li> </ul>	#: 0:
LLM-Image-Analyzer - AXIS P3255-LVE     AiDANT_Loitering - PND-A9081RV     Hanwha - Intelligent Video Analytics	This action will be fired whe	n G-Tect/AD Video content analysis detects an alarm.
> Hanwha - Object Detection > Hanwha - Human Body detection		
> 📕 Hanwha - Human Face detection	🔀 channel	
> - Hanwha - Motion detection	Area ID	
F.R - SAFR SCAN	Object Direction	
> - F.R - SAFR SC800	🗶 Alarm area	
> 🔁 Al - Image Analyer		
> - F.R - Hanwha		
> - VCA Alarm Loitering		
G-Tect/AD Media channel: PND-A9081RV Area		
G-Tect alive check		
> -= Recording tasks		
G-Tect/AD alarm; channel: #: 0;		
StopBy		
OnStop		

### 7.3.7 NRP Recognition

'NRP' need to be used to receive event notifications for 'Axis License Plate Verifier'

### 7.3.8 People/Queue/Crowd/Object Count

'Video result' need to be used to receive event notifications.

Fields	Value	Comments
value A(64-bit)	2003	Fixed value
value B(64-bit)	1:Hanwha, 2 :iPro, 3: AXIS	Fixed value
value C(64-bit)	bike / totalbike	Axis
value D(64-bit)	bus / totalbus	Axis
value A (32-bit)	car / totalcar	Axis
value B (32-bit)	human / totalhuman	Axis
value C (32-bit)	truck / totaltruck	Axis
value D (32-bit)	Total for Axis, Count for i-PRO and Hanwha	Axis / Hanwha/i-PRO
time stamp A	Date & Time	Server time
time stamp B		
value A (double)	otherVehicle	
value B (double)	Epoch time	Event time
		Hanwha
text A	Person, Vehicle, Car, Bike	Axis
	People Count	
	People Count Summary	
	Object Count -> Hanwha	
	Crowd Count -> Hanwha	
	Crossline Count -> Axis/i-PRO	
text B	Occupancy Count -> Axis	
text C	Rule name	
		Hanwha/i-PRO
text D	Direction(i.e : In or Out)	

	In the case of Axis, if the rule name includes ",IN", then it will be IN. If it includes ",OUT", then it will be OUT
text E	
text F	

### 7.4 G-Set Configuration – Hanwha Only

### 7.4.1 **PPE Detection – Video Result**

Fields	Value	Comments
value A(64-bit)	3001	Fixed value
value B(64-bit)		
value C(64-bit)		
value D(64-bit)		
text A	PPE	Fixed value
	No Helmet, No Vest	
	No Helmet	
	No Vest	
text B	Fall	One of fixed value

### 7.4.2 **PPE Line Crossing Detection – Video Result**

Fields	Value	Comments
value A(64-bit)	3002	
value B(64-bit)		
value C(64-bit)	Number of count	Number of people who crossed the line in the current frame.

value D(64-bit)		
text A	PPE	Fixed value
text B	Person or blank	

### 7.4.3 Forklift Detection – Video Result

aFields	Value	Comments
value A(64-bit)	1004	Fixed value
value B(64-bit)	1:Hanwha	
value C(64-bit)		
value D(64-bit)		
time stamp A	Date & Time	
time stamp B		
value A (double)	Likelihood	
value B (double)	1000	Fixed value
text A	Forklift	Fixed value
text B		
text C		

### 7.4.4 Forklift Speed Detection – VCA Detection AI Object

### 7.4.5 Vehicle Speed Detection – VCA Detection AI Object

Fields	Value	Comments
Object class	Forklift.Vehicle	One of value
Bulo namo	Pulo namo	Dunamic
		Dynamic
Object data	Speed	Fixed value
Timestamp		

		Speed of object
Position X	speed	Forklift or vehicle
Position Y		

### 7.4.6 Blocked Exit Detection – VCA Detection AI Object

### 7.4.7 ATM Hook Chain Detection – VCA Detection AI Object

#### 7.4.8 **Proximity Detection – VCA Detection AI Object**

Fields	Value	Comments
Object class	Blocked ATM Proximity	One of them
	Bioekeu,Arin, Tokinity	
Rule name	Rule name	Dynamic
Object data	Exit,HookChain,Proximity	One of them
Timestamp		
Position X		
Position Y		

#### 7.4.9 Pedestrian object Detection – VCA Detection AI Person

#### 7.4.10 Fallen object Detection – VCA Detection Al Object

Fields	Value	Comments	
Object class			
Rule name	Rule name	Dynamic	
	Pedestrian,		
Object data	Fallen object	One of them	
Timestamp			
Position X			
Position Y			

#### 7.4.11

### **Crowd Counting Detection – VCA Counting AI Object**

Fields	Value	Comments
Object class		
Rule name	Rule name	Dynamic
Object data	Crowd,	One of them
Timestamp		
Position X		
Position Y		

#### 7.4.12 Fire Detection – VCA Alarm

Fields	Value	Comments
Channel		
Туре		
Zone name	Rule name	Dynamic
Object info		

### 7.4.13 Wrong Way Detection – VCA Wrong direction

Fields	Value	Comments
Channel		
Туре		
Zone name	Rule name	Dynamic
Object info		
Object mid		

### 7.4.14 **Stopped Vehicle Detection – VCA Stopped vehicle**

Fields	Value	Comments
Channel		
Channel		

Туре		
Zone name	Rule name	Dynamic
Object info	Car Bus Truck Motorcycle Bicycle	Dynamic

### 7.5 G-Set Configuration for Best snapshot

### 7.5.1 Add '< Direct Image Feed Plugin>'

- 1) Start G-Set application.
- 2) We are not including the procedure for adding the Hardware and Media channel for the camera.
- 3) Go to Media channels/Hardware -> Hardware.
- Click on the Add button at the top of the Hardware configuration window. Select Plugin <Direct Image Feed Plugin> from the list of plugins, then press Add. A new IP plugin entry will appear in the Module list.
- 5) Update the 'Hardware setting's name

Hardware configuration			
이어!플(토율) 전 🖬 • 🗙 퇀! 주 🛛			
- Contrast No. No	Settings		
	Name		
DIF Dellar De ar Cauth Faninan	DIF Office Front Door Ext		
<ul> <li>A DESCRIPTION</li> <li>A DESCRIPTION</li> </ul>	- CDirect Image Feed> Plugin settings		
a second and a second		Direct Im	age Feed
· Dischargenienen Kilkel	⊽ Name	Туре	Data
<ul> <li>The later leading links for the</li> </ul>	📴 FeedTimeoutStorage	ntInt64	0x000000000000078 (120)
P the balance for the set of t	MappedMediaChannel	ntlnt64	0x00000000000000008 (8)
<ol> <li>M. Hawkenberg (MICOunced)</li> <li>M. Wang, M. Hawkenberg, and M. Hawkenberg, Nucl. Network, Nature 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 19977, 1997, 1997, 1997, 1997, 1997, 19977, 1997, 1997, 1997, 1</li></ol>			

- 6) Go to Media channels/Hardware -> Media channels.
- 7) Click on Add Media Channel with the 'DIF' you just added from #No4.

Media channel configuration			
이 이 등 배 송 타 🗶 💷 🖬			
Hedia channel list	P Settings		
- Server Carl et al.	Media channel		
	Best Snapshot - Office Fro	ont Door Ext	
Constant of the second s	Description.		
Contraction of the local data			
- Distantia Martin	Media groups:		
- Best Snapshot - Office Front Door Ext	Channel specific custom o	controls:	
E Permanent recording     We streaming			
- 2º Count bits form	Geo coordinates Latitude		Longitude
- The second sec	0		0
- 2 Least Inches	X Active		
- Properties (1)	lest pattern	Medula channel 1 on «DIE Office Front Door F	tt> (Direct Image Food)
Contraction of the second second	Media channel ID:	212	(breet image reed)
Concerning Section	Local number:	1	
	FPS granularity:	CCIR (25 FPS)	

8) Get the 'Media channel ID' of the "Office Front Door Exit" from 'Media Channels'.

2 2 Obritanda	4.94927786367025e+70		9.10500500436532e+38
- Concerning and the second se			
	X Active		
Office Front Door Ext			
Permanent recording			
Live streaming	Media channel accurate Mo	dule channel 1 on < Office Front Door Ext - Pl	NV-A9081R> (ONVIF IPC)
	Media channel ID: 8		
	Local number 1		
a William Internet	Global number		
	Giobal Humber: 4		
	FPS granularity: CC	R (25 FPS)	
- 1 The state and a balance			<b>建</b> /

9) Go to Hardware, and update the '*MappedMediaChannel'* with the value you got it from #No8.

	Hardware settings		
Production in the West P	News		
Contract and the Contract of Contract	Name:		
and the later. In the	DIF Office Front Door Ext		
and the Constant Constants			
	<ul> <li>Oirect Image Feed&gt; Plugin</li> </ul>	settings	
and the local states of			
and Set Office Set of Sec.		Direct In	lage reed
DIF Office Front Door Ext	☑ Name	Туре	Data
🚽 dif fatis inse institute	FeedTimeoutStorage	ntinto4	0.0000000000000000000000000000000000000
and the second se	MappedMediaChannel	ntlnt64	0x0000000000008 (8)
A Contract of Cont			
CONTRACTOR OF A DECISION OF A DECISIONO OF A	E-Palation		
in prove	Edit int value		
Contraction and the little	Value name		
> tardada tarbada tarbada tarbada	MappedMediaChannel		
P Revision Review With C			
English and the second seco	Value data	Base	
A first of the first of the second s second second sec		<ul> <li>Hexadecimal</li> </ul>	
The lattice has been been been to be an an and the second seco		Decimal	
Print interimity and the large lifet fit.			
Figure Seture 101, related 400 Sector		OK Cancel	
CONTRACTOR OF CONTRACTOR			
L CDC ADC · · · ·			

10) Add the 'Best Snapshot – Office Front Door Ext' to the existing G-Core Action's Recording tasks.



#### 11) Below is the 'StartBy' example.

- Transaction and a second	🏞 Settings	
an 🔁 fait Report B		
the first state of the state of	Video result: value A (6	64-bit): 1002: channel: Office Front Door Ext (4):
<ol> <li>Contract for Annumber - Press Descent</li> </ol>	Video result.	
- E - Martin		
1. Western Proceedings of States and Stat		
1 St. C. Selate Analytics - Council State Prove		
- C dill. Con brights, belle first held.	6	
	value A (64-bit)	1002
	volue R (64-bit)	
	value C (64 bit)	
- Participation - State Department	Value C (04-bit)	
	value D (64-bit)	
The second second second second	value A (32-bit)	
	U value R (22-bit)	
Harris Human Architer, Offer Fred Days 5 t	Value D (32-bit)	
Hanwha - Human Analytics - Office Front Door Ext	value C (32-bit)	
	value D (32-bit)	
StartBy	time stamp A	2024/00/00 21:14:25 295 GMT: 10:00
Video result; value A (64-bit): 1002; channel: Office Front Door Ext (4);		2024/05/05 21.14.23,205 00114 10.00
StopBy	time stamp B	2024/09/09 21:14:25,285 GMT+10:00
ConStart	value A (double)	
OnStop	value B (double)	
and shade while begins. When we have be	There is a	
<ol> <li>Institute induity Mitching Solid</li> </ol>		
<ul> <li>Band - Rababahashian - Raba Dawi Rabi hasing</li> </ul>	text B	
1 Mar. Repairing and State State State	text C	
1 and institute	text D	
	text E	
1 The state case	text F	
	TV shares	
	Channel	Office Front Door Ext
	Trepuls data set	00000"

12) Below are examples of the G-Core Event and DIF.



### 7.6 **G-Set Configuration for Aidant Loitering**

#### 7.6.1 Axis IPC Plugin

If you're using the 'Axis IPC plugin,' please make sure to enable the 'Onvif Compatibility' for 'Event Mapping.

Hardware module list	Settings	
<ul> <li>Principal Association</li> <li>Principal Association</li> </ul>	Hardware settings	
<ul> <li>P Roma R South</li> <li>P Consent Drive Nerve</li> </ul>	Name:	
<ul> <li>Properties and construct - Investor (NY2)</li> <li>Properties of Linear-Size</li> </ul>	Conference Room - Axis Q9307-LV	
<ol> <li>P. Carpert Land 1 Ltd., Annihilativ</li> <li>P. Carpert Land 1 Ltd., Annihilativ</li> <li>P. Carpert Robert Mathematics, Annihilativ</li> </ol>	🏲 <axis ipc=""> IP-Camera Plugin settings 💩 Client side dewarping</axis>	
	Streaming behaviour Zipstream Advanced Disable and fix settings VCA Bridge Event Mapping ) xis App:	
> protection - Axis Q9307-LV	Onvir Compatibility	
<ul> <li>B 24 - Dep States - New Deep a 19 24 - Dep States - New Over</li> </ul>	Ayis Events     Age of the second secon	
<ol> <li>- alg SH - See Sing 2003.</li> <li>S - alg SH - New Order Name</li> </ol>	Audio detection ABCConnect	
<ul> <li>a) (4) - Hay Law Lawrence</li> <li>a) (3) - Hay Law Lawrence</li> <li>b) (4) - Hay Law Law Law</li> </ul>	Digitalinput ABCPlayFile	
a - 1 20 - Wardow Court in	AbortAwurobackups	
A BUT - MUCATION SOLUTION		
3 - 4 28 - 600 6485	Use system audio (global setting)	
(c) (a) 500 (500) (500)		

If you're using the 'ONVIF IPC plugin,' please make sure to enable the 'OnvifMessage Action' for 'Event handling.

Name: IP-Camera Plugin 013 IP-Camera Plugin 013	
Connection // Streaming	Profile settings // Advanced / Event handling
Image: Second Development         Image: Development         Development         Development         With Same Nachdadon         Image: Development         Image:	Available Formt       Termt box       Get event trind       Fiber

#### 7.6.2 Create G-Set Action

Please add the 'Loitering' action with the 'VCA Alarm Loitering' for both 'Start By' and 'Stop By' triggers.

- Start By : 'Zone name' need to be 'StartLoitering'
- Stop By: 'Zone name' need to be 'StopLoitering'.



### 7.6.3 Update AiDANT configuration



• The 'AI Threshold' field can be modified to indicate how selective we want to be in identifying a person/object (i.e. the higher the number, the more discriminate it becomes to determine if an object on the screen is the desired object and the less positives that we will have). A value of 0.40 is the default as it minimizes false positives and increases true positives for detection.

Areas	Occupancy	Follow	Overlays	Reports	Objects	5		
🗹 A1	rea of int	erest 1	Aler	t [m:s]	0		10	
<b>A</b> 1	rea of int	erest 2	Aler	t [m:s]	0		0	
A 🗌	rea of int	erest 3	Aler	t [m:s]	0		10	

- To configure the 'Area of Interest' functionality, select an area to monitor by dragging the control points until the polygon shape covers the area of interest.
- Indicate the minimum number of persons/objects in the area of interest needed to trigger the alarm by using the 'Notify only when count is' field. The user can also indicate the minimum amount of time needed for someone/object to linger in an area of interest by using the Alert Time field.
- Press the 'Update and Save' button to save your configuration changes

### 8 Grafana Installation & Configuration

### 8.1 SQL Server Configuration

#### 8.1.1 Create Database and Login Credentials.

The database and login credentials you entered during the installation were created by the application. Please check the 'Trouble shooting' section if you don't have them.

### 8.2 Grafana Installation & Configuration

#### 8.2.1 Grafana Installation

- 1) Navigate to the Grafnana download page <a href="https://grafana.com/grafana/download">https://grafana.com/grafana/download</a>
- 2) Select the Grafana version you want to install.
- 3) Select 'Enterprise' edition.
- 4) Click Windows
- 5) To use the Windows installer, complete the following steps
  - a. Click Download the installer.
  - b. Open and run the installer.

#### 8.2.2 Sign in to Grafana

To sign in to Grafana for the first time, follow these steps:

- Open your web browser and go to root URL specified in Grafana configuration file. Unless you have configured Grafana differently, it is set to use http://localhost:3000 by default.
- 2) On the sign-in page, enter admin for username and password.
- 3) Click Sign in.
- 4) If successful, you will see a prompt to change the password.
- 5) Click OK on the prompt and change your password.

#### 8.2.3 Microsoft SQL Server data source

To configure basic settings for the data source, complete the following steps.

- 3) Click Connections in the left-side menu.
- 4) Under Your connections, click Data sources.
- 5) Enter Microsoft SQL Server in the search bar.
- 6) Select Microsoft SQL Server. The Settings tab of the data source is displayed.
- 7) Set the data source's basic configuration options.

Field	Value	Description
Name	META_CONNECT_DB	
Host	IP-ADDRESS\GCORESQL,46915	Port might be different
Database	META CONNECT	
Username		
Password		

### 8.3 Import Dashboard

To import a dashboard, follow these steps:

- 1) Click Dashboards in the primary menu.
- 2) Click New and select Import in the drop-down menu.

G Home > Dashhoards	Q Search or jump to	🖾 ctrl+k	+~ 💿 🔉 🔮
Playlists Snapshots	Dashboards Create and manage dashboards to visualize your data Q Search for dashboards and folders Filter by tag	D ≡ 1≣ Sort	New Ashboard New folder Import
Library panels Public dashboards	No dashbo + C	ards yet. Create your firstl Create Dashboard	

3) Upload a dashboard JSON file.



- 4) (Optional) Change the dashboard name, folder, or UID, and specify metric prefixes, if the dashboard uses any.
- 5) Select a data source, if required.

	mport dashboard	
Playlists     Snapshots     Library panels     Public dashboards	Import dashboard Import dashboard from file or Grafana.com Options Name People Counting	
	Folder Dashboards Unique identifier (UID) The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.	
	ddujxs5i9zabkc META_CONNECT META_CONNECT Import Cancel	Change uid

- 6) Click Import.
- 7) Save the dashboard.

### 9 Application Management

### 9.1 Application

File	Directory or Comment
Home Directory	C:\Program Files\Geutebruck Pacific\G-Core MetaConnect
appsettings.json	Application log level and log file path configuration
application.json	Application configuration
ipcameras.json	IP camera configuration
Log directory	C:\ProgramData\GBP\G-Core MetaConnect\logs

#### 9.1.1 Window Service Name

Following Window services will be automatically started when the computer boots, can be paused and restarted, and do not show any user interface.

G Services						D X
File Action View	v Help					
🕈 🔿 🛅 🖾 I	a 🔒 🛛 📰 🕨 🔳 🕪					
Services (Local)	Services (Local)	-				
	GCore MetaConnect	Here	Description:	Status	Startup Type	Log On ,
	121200	Constraints (Constraints)	SCore-Southwest Microsovers IP-Isseed POE118		Manual	Local Sy:
	Stop the service	Carlo Carra Mali	DEVTERHOOK & Core Mail . Herster 81.8092	Running	Automatic	Local Sy:
	Restart the service	GCore MetaConnect	Collect the AJ Camera metadata.	Running	Automatic	Local Sy:
		G 900+0 SHR Cemera	GEars - Collect the Racel recognition event from SA,		Manual	Local Sy:
		Carl Cone SAM	GEUTEMAIOL G. Gere Gald - Herstern 8.1.1404	iluming	ikutomatic	Local Sy:
	Collect the A I Camera metadata	Care larve	GELTERRICE C-Care Genere - Mexico (8/18.962		Manual	Local Sy:
	Conect the Act cantera metadata.	Carlo Streamer	OFUTERATION O-Core-Streamer - Mexon-E102ME	Running	Automatic	Local Sy:
		Sig G-Core Talesportreal	GEUTEMODI G-Gove Takesented - Weslam 811/592	ikunning .	Automatic	Local Sy:
		C Corr WARConnert	GEUTERREICE C. Care VIM/Connent - Version 81/2/30	Running	ilutomatic	Local Sy:

### 9.1.2 Log level change and Monitoring log file

The application logging level specified for a log handler determines the amount of information written to the log files. Log levels include a message type and a message level. Enabling logging at a specific level also enables logging at all higher levels.

1) Please change the log level to 'Debug' in the 'appsettings.json' file located at 'C:\Program Files\Geutebruck Pacific\G-Core MetaConnect'



- 2) You don't need to restart the application; the change will be applied automatically after a few seconds.
- 3) Monitor the following log file.
  - "C:\ProgramData\GBP\G-Core MetaConnect\logs\app\_yymmdd.log"
- 4) Please roll it back the log level "Warning" or "Information" once you done.

### 10 Trouble shooting

#### 10.1 No Metadata

If you encounter an issue retrieving metadata from the application, refer to the following guide below to help identify the cause.

#### 10.1.1 G-Set

Please check the G-Set configuration and ensure that you have filled out the required fields as described in Section 5.

Please also refer to the following links for instructions on setting up the 'Media Channel' and 'Event'.

<u>https://www.geutebrueck.com/g-help/g-core/en/Content/G-Set/G-Set.htm?tocpath=G-Set%7C0</u>

#### 10.1.2 Camera Firmware

1) AXIS

The analytics metadata streams can also be configured to include cropped images of detected classified objects using the Best Snapshot feature, but you must have the firmware 11.11.73(or higher).

2) Hanwha

You may need to use firmware 2.2.14 or higher, WiseAI version 1.02.03 or higher.

#### **10.1.3** Snapshot Priority

By default, the application will deliver metadata when it has the best snapshot image, enabling quicker access to insights, facilitating automated actions, supporting informed decision-making, and improving search efficiency and predictions.

You may need to turn it off if the camera does not support this feature.

Device Setting ——— Manufacture	AXIS		
Manufacture	AXIS		
Media Channel	٠		
RTSP URL	rtsp://IP-ADDRESS:554/axis-media/media.amp		
RTSP User			
RTSP Password			
Bounding Box	Yes ~		
Best Snapshot	Yes ~		
Snapshot Priority	No		
Minimum Likeliho	0.65		
LRP Direction	No		
	Save		

### 10.2 Error creating database and table

You might encounter a 'database and table creation error' when you start the application.

It might be related to the privileges of your Windows account or domain.

#### **10.2.1** Verify that user login credentials.

The database was created by the application, and you need to create a login in SQL Server.

You can also find the SQL configuration manager from the Start menu.

- i.e) "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft SQL Server XXX\Configuration Tools"
- 1) Click Start > Programs > "SQL Server Management Studio"



2) Right-click on Security in Object Explorer and choose New Login



3) In the General option of the Login-New window: Provide the New User Login account Name and login authentication. Click OK (If the window is closed, select your new account name in the Security option of your Object explorer and double-click on it).

Select a page	🖵 Script 🔻 😯 Help	
General General Verver Roles User Mapping Securables Status		
	Login name: Windows authentication SQL Server authentication	geutebruck
	Password:	•••••
	Confirm password: Specify old password Old password: Enforce password po	

- 4) In the General option of the Login-New window: Provide the New User Login account Name and login authentication. Click OK (If the window is closed, select your new account name in the Security option of your Object explorer and double-click on it).
- 5) In User Mapping Option: In this, specify databases that the user account can access if the login needs more access in one or other databases. In the

Membership, select the lists of all possible database membership roles the new database user can own.

- dbcreator
- syadmin



#### 10.2.2 Restart SQL Server

You may need to restart SQL Server if you change the server authentication settings.

The following screen capture shows a view of the Windows Service Manager on a server with a single instance of SQL Server as the default instance (GCORESQL)

Services				
File Action View	Help			
Services (Local)	Services (Local)			
	SQL Server (GCORESQL)	Name	Status	Des
	Character and a second second	🎑 Software Protection		Ena
	Stop the service	🎑 Sophos Connect Service	Running	Sor
	Restart the service	🎑 Spatial Data Service		Thi
		🎑 Spot Verifier		Ver
		SQL Server (GCORESQL)	Running	Pro
	Description:		D	2

#### 10.2.3 Verify that the database and tables exists

1) Start "SQL Server Management Studio Management Studio XX" as an Administrator.

2) Connect to the database using Windows Authentication.



- 3) Database script files exist in "C:\Program Files\Geutebruck Pacific\G-Core MetaConnect\database"
- 4) Open a "INSTALLER-DRIVEN-CREATE-DATABASE.sql", and Open a query window, paste the query from the file into it, and execute the query.



- 5) Open a "INSTALLER-DRIVEN-CREATE-LOGIN-ROLL.sql", and Open a query window, paste the query from the file into it, and execute the query.
- 6) Open a "INSTALLER-DRIVEN-CREATE-TABLE.sql", and Open a query window, paste the query from the file into it, and execute the query.

#### 10.2.4 Verify the User mapping

- 2) Expand the "Security" and "Logins" sections in the Object Explorer panel, then right-click on the user and choose "Properties".
- Click the "User Mapping", select the "META\_CONNECT" database, and set the database role membership to "db\_owner", "db\_datareader", "db\_datawriter" and "db\_owner", and "public".



#### 10.2.5 Server Authentication mode

You can check to see which authentication method is configured in several ways.



Then, go to the Connections page and ensure that "Allow remote connections to this server" is checked, and click OK.

Server Properties - ALBERT-L/	APTOP\GCORESQL	_	$\times$
Select a page 🎤 General	I Script ▼ 😧 Help		
<ul> <li>Memory</li> <li>Processors</li> <li>Security</li> <li>Connections</li> <li>Database Settings</li> <li>Advanced</li> <li>Permissions</li> </ul>	Connections Maximum number of concurrent connections (0 = unlimited): 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Connection	Instruct dansactors     current commit     ansi warnings     ANSI NULLS     ansi padding     ANSI NULLS		I
Connection			
server: albert-laptop\GCORESQL	Remote server connections		
Connection: GEUTEBRUCK\albert I View connection properties	Allow remote connections to this server         Remote query timeout (in seconds, 0 = no timeout):         600		
	Require distributed transactions for server-to-server communication		
Progress		_	 
Ready	Configured values         ORunning values		