



Setup Instructions

i-PRO Active Guard for Genetec



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1. Preface

1.1. Limitation of liability

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- Intel, Intel Core and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.
- Other names of companies and products contained in these operating instructions may be trademarks or registered trademarks of their respective owners.

1.4. Abbreviations

These are descriptions of the basic terms used in these operating instructions.

Microsoft® Windows® are described as Windows.

1.5. Disclaimer of warranty

This product is designed to search/verify a specified face from database that stores face information and thumbnail images created based on faces captured by network cameras, and display statistical information by operation using a client terminal or system compatible with this product. This product by itself is not designed for crime prevention. Our company accepts no responsibility for the following under any circumstances.

- (1) ANY DAMAGE AND LOSS, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;
- (2) ANY INCONVENIENCE, LOSS, OR DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- (3) UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER;
- (4) ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- (5) ANY CLAIM OR ACTION FOR DAMAGES BROUGHT BY ANY PERSON OR ORGANIZATION AS A PHOTOGRAPHED SUBJECT DUE TO VIOLATION OF PRIVACY CONCERNING A SURVEILLANCE CAMERA'S PICTURE OR SAVED DATA, FOR SOME REASON (INCLUDING USE WHEN USER AUTHENTICATION ON THE AUTHENTICATION SETTING SCREEN IS SET TO OFF), BECOMING PUBLIC OR BEING USED FOR ANY PURPOSE;
- (6) LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE (INCLUDING INITIALIZATION OF THE PRODUCT DUE TO FORGOTTEN AUTHENTICATION INFORMATION SUCH AS A USER NAME AND PASSWORD).
- (7) ANY PROBLEM, DAMAGE OR COMPLAINT CAUSED BY THE OPERATION BY A MALICIOUS THIRD PARTY.

1.6. Collection of Usage Data

This software may collect data about utilization of this software and send it to i-PRO Co., Ltd. In particular, we use this data to improve our products and services. You can stop this data collection by unchecking "Send anonymous data to improve software and user experience," checkbox.

The following is an example of the data collected by this software. We do not collect data about your personal information.

- Company name, Country and Purpose of use entered by user.
- The number of camera and camera's extension software.

1.7. Network security

As you will use this product connected to a network, your attention is called to the following security risks.

1. Leakage or theft of information through this product
2. Use of this product for illegal operations by persons with malicious intent
3. Interference with or stoppage of this product by persons with malicious intent

It is your responsibility to take precautions such as those described below to protect yourself against the above network security risks.

- Use this product in a network secured by a firewall, etc.
- If this product is connected to a network that includes PCs, make sure that the system is not infected by computer viruses or other malicious entities (using a regularly updated anti-virus program, anti-spyware program, etc.).
- Protect your network against unauthorized access by restricting users to those who log in with an authorized user name and password set by using user authentication.
- After the product is accessed by the administrator, make sure to close the web browser.
- Change the administrator password periodically. Keep the authentication information (your user name and password) in a safe place free from public view.
- Apply measures such as user authentication to protect your network against leakage or theft of information, including image data, authentication information (user names and passwords), alarm mail information and FTP server information.
- Use a password that has never been used to protect your network from information leakage or theft.

1.8. Precaution for use

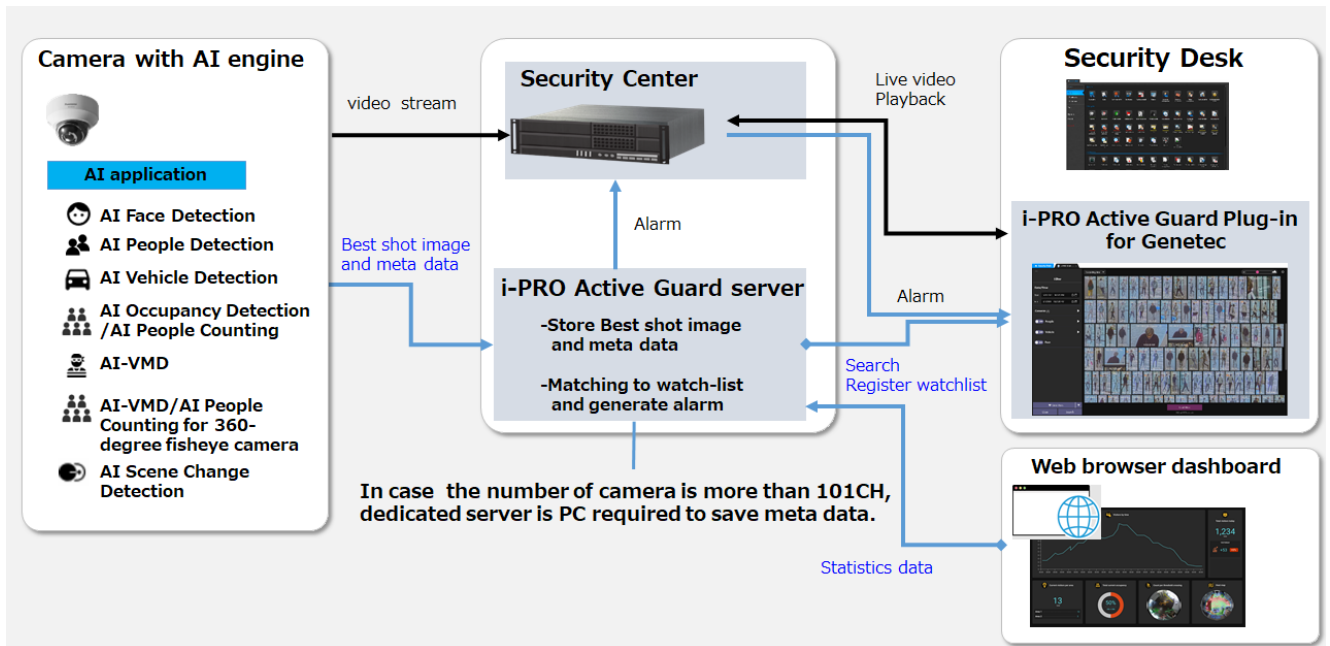
- The administrator should properly manage authentication information such as cameras, recorders, client software, Windows, databases, etc. so as not to leak to third parties.
- Always change passwords for cameras, recorders, client software, etc. from the default values, and perform appropriate management.
- Apply authentication information for each user, and do not share.
- Set the access privileges of the user appropriately.
- Make sure to manage login properly using auto logout function etc. so that third parties do not operate unintentionally by leaving it logged in.
- When downloading the application, please download from the official site.
- The administrator should properly manage exported data using export function so that there is no leakage to third parties.
- When repairing, disposing of, or transferring PC, there is a possibility that information may be left on the HDD etc. Therefore, please manage by an appropriate method such as physically destroying the HDD. Also, if using external media, remove them in advance and manage them so that they do not leak to third parties.
- If the authentication information is lost, system needs to be initialized. Store the authentication information properly in a place where only authorized persons can view it.
- It is recommended to back up and manage system configuration data regularly.
- Set the time for devices in the system, such as cameras, recorders, and PCs, using an NTP server, etc.
- Please properly manage the expiration date of the server certificate prepared by the customer.
- For Windows, apply the latest security patch. Also, please set up Windows properly according to your environment.
- Databases can be corrupted by forced shutdowns / power outages or system outages / system crashes due to power interruptions.

In that case, following phenomenon may occur. i-PRO Active Guard server software will not start, functions such as search, alarm notification, or watch registration will not be worked.

Damaged data cannot be recovered, so it is highly recommended to install a UPS in case of power failure.

2. Introduction to i-PRO Active Guard

2.1. System overview



AI application or AI function on cameras transmit video stream to Security Center and transmit Best shot images and meta data to i-PRO Active Guard server.

i-PRO Active Guard server stores those data and also generate alarm when face or people is matched to watchlist.

i-PRO Active Guard Plug-in for Genetec (hereinafter referred to as "Plug-in") which is the plug-in software for Security Desk can search Best shot images, register watchlist, show live video, recorded video.

By visualizing statistics data from AI application on the web browser, it can also be used for business intelligence.

2.2. Software components and supported version

Camera's AI function

- AI Face Detection: Camera's extension software. V1.11 or later is supported.
- AI People Detection: Camera's extension software. V1.11 or later is supported.
 - V1.40 or later is required for to use the automatic detection of people attributes from images.
- AI Vehicle Detection: Camera's extension software. V1.11 or later is supported.
 - V1.40 or later is required for to use the automatic detection of vehicle attributes from images.
- AI Occupancy Detection/AI People Counting: Camera's extension software. V1.60 or later is supported.
- AI-VMD: Camera's extension software. V2.00 or later is supported.
 - V3.00 or later is required for people or vehicle counting dashboard.
 - V3.20 or later is required for to show the area/line names set in the camera.
- AI Sound Classification: Camera's firmware function.
- AI-VMD/AI People Counting for 360-degree fisheye camera: Camera's extension software. V1.21 or later is supported.
 - V1.50 or later is required for to show the area/line names set in the camera.
- AI Scene Change Detection: Camera's extension software. V1.00 or later is supported.
- AI Processing Relay: Camera's extension software. V1.00 or later is supported.

Please see <https://i-pro.com/global/en/surveillance/products/i-pro-ai-application/> for more information.

For integration with 3rd party extension software, refer to 7.3.

Cameras firmware

Camera with AI engine (hereinafter referred to as "camera") are supported.

Please also check supported camera models on VMS.

camera model	Version
WV-S1136,WV-S2136,WV-S2136L,WV-S2236L	1.11 or later
WV-S1536L,WV-S1536LN, WV-S1536LTN,WV-S2536L,WV-S2536LN, ,WV-S2536LTN	1.11 or later
WV-X1571L,WV-X2571L,WV-X2271L,WV-X1551L,WV-X2551L	1.50 or later
WV-S4576L,WV-S4176,WV-S4576LM,WV-S4156,WV-S4556L,WV-S4556LM	1.01 or later
WV-S8543,WV-S8543G,WV-S8543L,WV-S8543LG, WV-S8544,WV-S8544G,WV-S8544L,WV-S8544LG, WV-S8563L,WV-S8563LG,WV-S8564L,WV-S8564LG, WV-S8573L,WV-S8573LG,WV-S8574L,WV-S8574LG	1.01 or later

camera model	Version
WV-S15500-V3L, WV-S15500-V3LN, WV-S15500-V3LN1, WV-S15500-V3LK, WV-S15600-V2L, WV-S15600-V2LN, WV-S15700-V2L, WV-S15700-V2LN, WV-S15700-V2LK, WV-S22500-V3L, WV-S22500-V3LG, WV-S22500-V3L1, WV-S22600-V2L, WV-S22600-V2LG, WV-S22700-V2L, WV-S22700-V2LG, WV-S22700-V2L1, WV-S25500-V3L, WV-S25500-V3LN, WV-S25500-V3LG, WV-S25500-V3LN1, WV-S25600-V2L, WV-S25600-V2LN, WV-S25600-V2LG, WV-S25700-V2L, WV-S25700-V2LN, WV-S25700-V2LG, WV-S25700-V2LN1,	1.00 or later
WV-S71300-F3	1.10 or later
WV-S61301-Z2, WV-S61302-Z4, WV-S65340-Z2N, WV-S65340-Z2K, WV-S65340- Z4N, WV-S65340-Z4K	1.00 or later

Please see <https://i-pro.com/global/en/surveillance/training-support/support/technical-information><Control No:C0103> for more information.

VMS and i-PRO Active Guard server / Plug-in

Software	Version
Genetec Security Center	SC 5.10.1.0 or later
i-PRO Active Guard server / i-PRO Active Guard Plug-in for Genetec	V1.0.0 or later

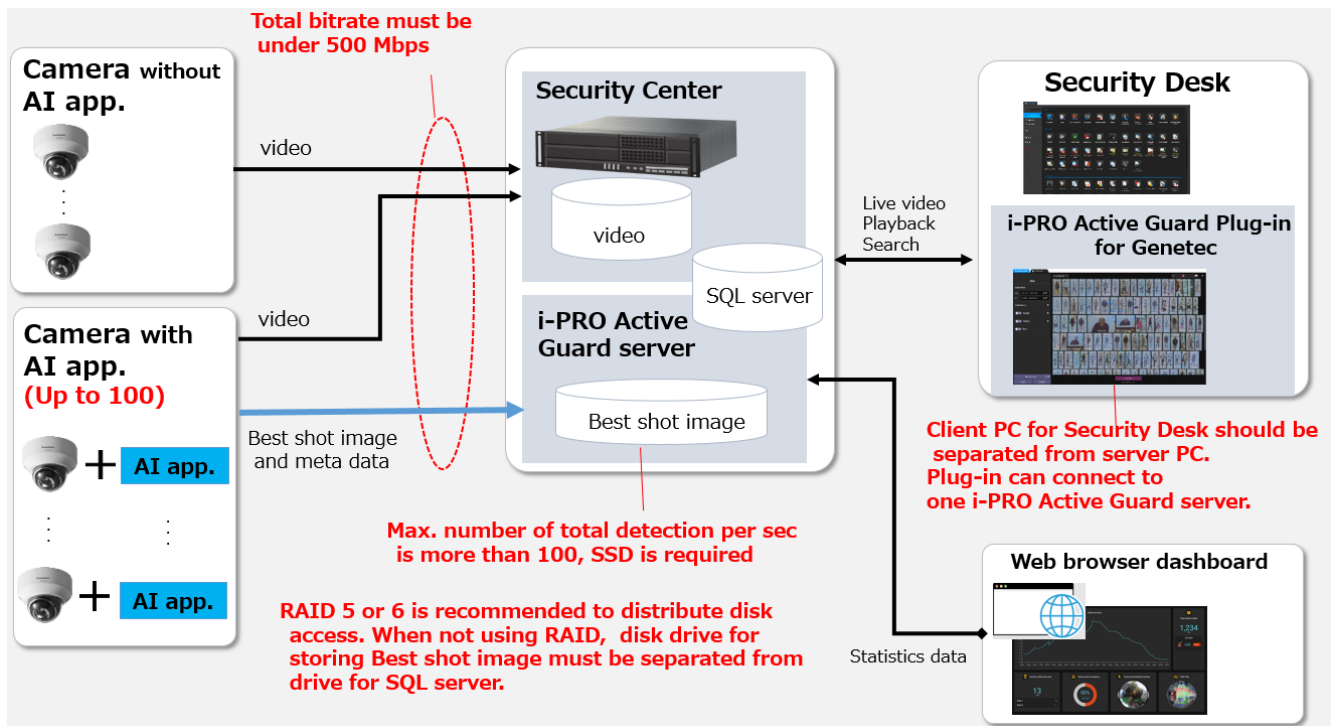
3. System design

3.1. System architecture

Two system architecture is selectable depending on the number of cameras and the frequency that camera detects objects or storage size and so on.

	i-PRO Active Guard server installed with Security Center	i-PRO Active Guard server installed In dedicated server
The number of cameras	100 (AI Face Detection is up to 20)	300 (AI Face Detection is up to 60)
Total bitrate	500Mbps for video and Best shot images	500Mbps for Best shot images

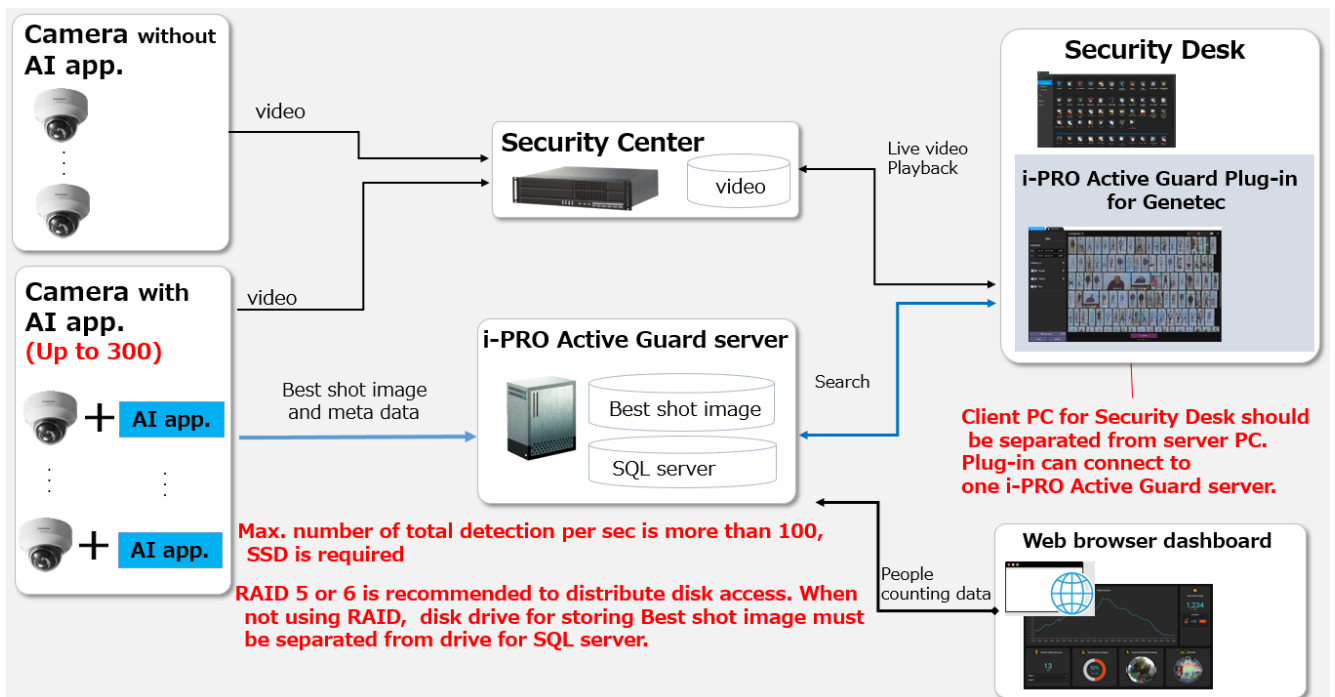
3.1.A i-PRO Active Guard server installed to PC with Security Center



There are some conditions for installing i-PRO Active Guard server to the server PC with Security Center.

- (1) The number of cameras with AI engine is up to 100.
Camera with AI Face Detection is up to 20.
- (2) Total bitrate that server PC receives must be under 500Mbps. Both bitrate of video data and Best shot images should be calculated.
Bitrate of Best shot images can be calculated in 3.3.
- (3) RAID 5 or 6 is recommended to distribute disk access. When not using RAID, disk drive for storing Best shot image must be separate from drive for storing video and SQL server.
- (4) Client PC should be separated from server PC. Plug-in can connect to one i-PRO Active Guard server.

3.1.B i-PRO Active Guard server installed to dedicated server PC



When i-PRO Active Guard server is installed in dedicated server,

- (1) The number of cameras with AI engine is up to 300.
Camera with AI Face Detection is up to 60.
- (2) RAID 5 or 6 is recommended to distribute disk access. When not using RAID, disk drive for storing Best shot image must be separate from drive for SQL server.
- (3) Client PC should be separated from server PC. Plug-in can connect to one i-PRO Active Guard server.

3.2. System requirement

3.2.1 System requirement for i-PRO Active Guard server

Hardware requirement

	Requirement
<p>Up to 100 cameras</p> <p>i-PRO Active Guard server installed with Security Center</p>	<ul style="list-style-type: none"> • Intel® Xeon® Silver 4210 2.2 GHz or better • 32 GB of RAM or more • 64 bit operating system <ul style="list-style-type: none"> Microsoft® Windows Server 2016 Standard Microsoft® Windows Server 2019 Standard Microsoft® Windows Server 2022 Standard Microsoft® Windows Server 2016 Datacenter Microsoft® Windows Server 2019 Datacenter Microsoft® Windows Server 2022 Datacenter • GbE network interface card
<p>Up to 100 cameras</p> <p>i-PRO Active Guard server installed in dedicated server</p>	<ul style="list-style-type: none"> • Intel® Core™ i7-9700 (4.9 GHz, 8 core 8 thread) or better • 32 GB of RAM or more • 64 bit operating system <ul style="list-style-type: none"> Microsoft® Windows 10 Pro Microsoft® Windows 10 Enterprise Microsoft® Windows 10 Education Microsoft® Windows 10 Pro Education * version 2004 or later Microsoft® Windows 11 Pro Microsoft® Windows 11 Enterprise Microsoft® Windows 11 Education Microsoft® Windows 11 Pro Education Microsoft® Windows Server 2016 Standard Microsoft® Windows Server 2019 Standard Microsoft® Windows Server 2022 Standard Microsoft® Windows Server 2016 Datacenter Microsoft® Windows Server 2019 Datacenter Microsoft® Windows Server 2022 Datacenter • GbE network interface card
<p>Up to 300 cameras</p>	<ul style="list-style-type: none"> • Intel® Xeon® Silver 4208 2.1 GHz(8 core 16 thread) or better

	Requirement
i-PRO Active Guard server installed in dedicated server	<ul style="list-style-type: none"> • 32 GB of RAM or more • 64 bit operating system <ul style="list-style-type: none"> Microsoft® Windows Server 2016 Standard Microsoft® Windows Server 2019 Standard Microsoft® Windows Server 2022 Standard Microsoft® Windows Server 2016 Datacenter Microsoft® Windows Server 2019 Datacenter Microsoft® Windows Server 2022 Datacenter • GbE network interface card

Common software requirement

Category	Supported software
Database Engines	<ul style="list-style-type: none">• SQL server 2014/2016 Express/Standard Edition SQL server 2016 Express Edition is installed when installing i-PRO Active Guard server. Upgrade procedure is shown in 5.10.
Web browser for Configuration Tool	<ul style="list-style-type: none">•Microsoft Edge 85 or later•Chrome 83 or later•Firefox 95 or later

Disk drive considerations

When the maximum number of detection exceeds 100 objects per second for all cameras, SSD is required for storing data. See 3.3 in detail. If using HDD, data will not be stored and system become unstable.

RAID 5 or 6 is recommended to distribute disk access. When not using RAID, disk drive for storing Best shot image must be separate from drive for SQL server.

Database considerations

The SQL server Express Edition has limitation that the maximum size for database is 10GB, so estimated used disk size for database of face, people and vehicle should be under 8GB.” Check 3.3 to see if the Express edition is sufficient.

3.2.2 System requirement for Plug-in

Requirement(Recommended)
<ul style="list-style-type: none">● Intel® Core™ i7-9700 (4.9 GHz, 8 core 8 thread) or better● 8 GB of RAM or better● OS: Microsoft® Windows 10 Pro (64 bit), Microsoft® Windows 11 Pro (64bit)● 120 GB Solid State Drive for OS and Security Center applications, with a minimum of 6 GB of free disk space to install the Security Center client application● GbE network interface card● NVIDIA® GTX 1660 video card

Please also see the Security Center’s manual.

3.3. How to determine the system architecture

STEP1: The number of camera

When the numbers of cameras with AI People detection, AI Vehicle detection, AI Occupancy detection/AI People Counting, AI-VMD, Sound, AI-VMD/AI People Counting for 360-degree fisheye camera or AI Scene Change detection is no more than 100(AI Face detection is no more than 20), it may be possible that AI server is installed to PC with Security Center. Please continue to check STEP2. When over 100 (or over 20 for AI Face detection), i-PRO Active Guard server should be installed in dedicated server PC. Please see 3.1.B.

In case of multi-sensor camera, extension software can be installed for each camera and the each camera needs to be registered to i-PRO Active Guard server.

STEP2: The number of extension software

To calculate the bitrate of Best shot, the number of extension software (Face, People, Vehicle and People Counting for 360-degree fisheye camera) should be considered. Since the amount of counting data by AI-VMD, AI Occupancy detection/AI People Counting, AI Scene Change detection is small, it is not necessary to consider it. Multiple extension software can be installed to each camera.

(ex, When People and Vehicle are installed to a camera, add 1 for People and Vehicle, respectively.)

		Face	People	Vehicle	People counting for 360-degree fisheye camera
The number of extension software					
# of people/vehicle [per camera, per hour]	Max.				
	Average.				

Maximum number of detection in total [per sec]	
--	--

When “Maximum number of detection in total” is less than 100, HDD or SSD is available for disk drive.

When “Maximum number of detection in total” is over 100, SSD is required.

STEP3: Total bitrate server receives

Total bitrate of Best shot image [Mbps]	
Maximum bitrate of People counting data [Mbps]	
Total bitrate of video recording for all cameras(*) [Mbps]	
Total bitrate that server PC receives [Mbps]	

If the “Total bitrate that server PC receives” exceeds 500Mbps, i-PRO Active Guard server should be installed in dedicated server PC.

STEP4: Retention period and storage

	Face	People	Vehicle	People counting for 360-degree fisheye camera
Retention period (day) *Face, People, Vehicle(1-31), People counting(1-92) * Up to 366 days when using SQL Server Standard Edition				
Operating time (hours per day)				

Estimated used disk size for Best shot images[GB]	
Estimated used disk size for People counting[GB]	
Estimated used disk size for database[GB]	

When "Estimated used disk size for database" is under 8 GB, SQL Server Express Edition or Standard Edition can be used. When more than 8GB, SQL Server Express Edition cannot to be used due to the limitation of Express Edition. Standard Edition is must. (Refer to 5.10)

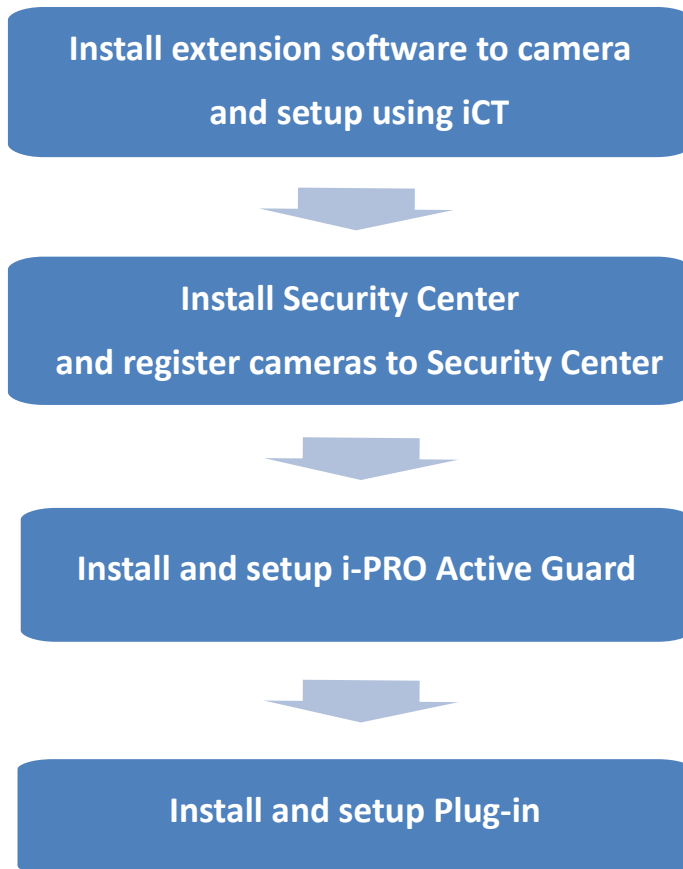
3.4. Ports used in i-PRO Active Guard server

The following table lists the default network ports used by i-PRO Active Guard server. These ports need to be allowed from firewall configurations.

Port number	Protocol	Port usage
1435	TCP	Connection to SQL server
8090	HTTP	Client Plug-in connection
8091	HTTPS	Client Plug-in connection
8092	HTTPS	Web configuration tool connection
50000	TCP	Internal process communication
50002	TCP	Internal process communication

4. Installation and setup

Procedure overview



4.1. Install extension software to camera and setup using iCT

Download the extension software and refer manual from <https://i-pro.com/global/en/surveillance/training-support/documentation-database-list/>

4.2. Install and setup Security Center

Install the VMS server software and register the AI camera with the VMS client.

Install Plug-in to Security Desk.

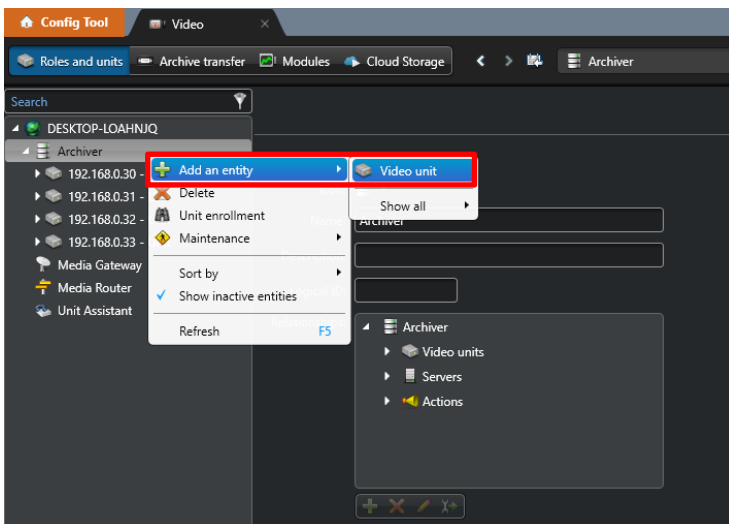
Register the camera in MAP as an Option setting

4.2.1. Install and register cameras to Security Center

Detail procedure about Security Center installation and basic setup are shown on Security Center's manual.

After installation, register AI cameras to Security Center using Config Tool.

(Genetec Security Center – [Config Tool] – [Video] – [Cameras])



4.2.2. Install Plug-in to Security Center

Download the installer from <https://i-pro.com/global/en/surveillance/training-support/documentation-database-list/>

Install “i-PRO Active Guard Plug-in for Genetec” software to PC that Genetec Security Center is installed.

4.2.2.1. Install

STEP1

Start “Control Panel” - “Administrative Tools” - “Services”.
Select “Genetec Server” and “Stop” in right-click menu.

STEP2

Launch the executable installer as Administrator.

Click the [Next] button, then check mark [I accept the terms in the License Agreement], and then click the [Install]

When the installation complete window is displayed, click the [Finish] button.

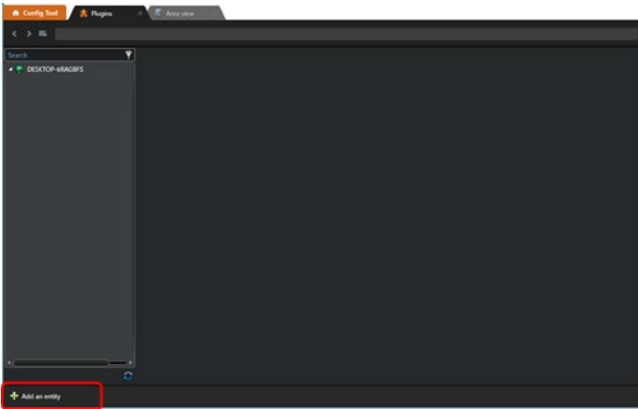
STEP3

Start “Control Panel” - “Administrative Tools” - “Services”
Select “Genetec Server” and “Start” in right-click menu.

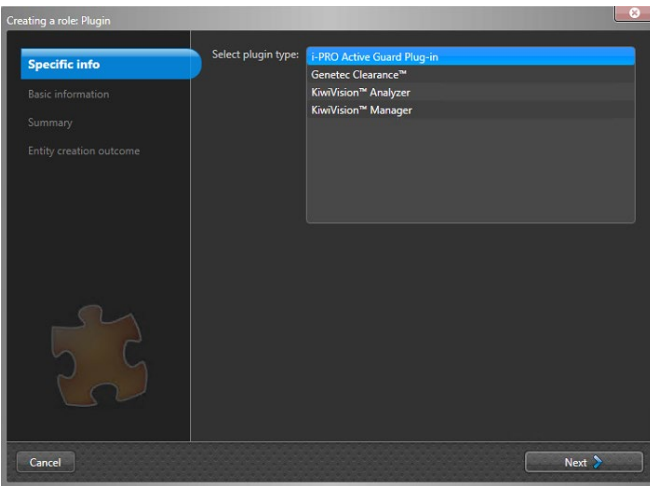
4.2.2.2. Configure Plug-in to Security Center



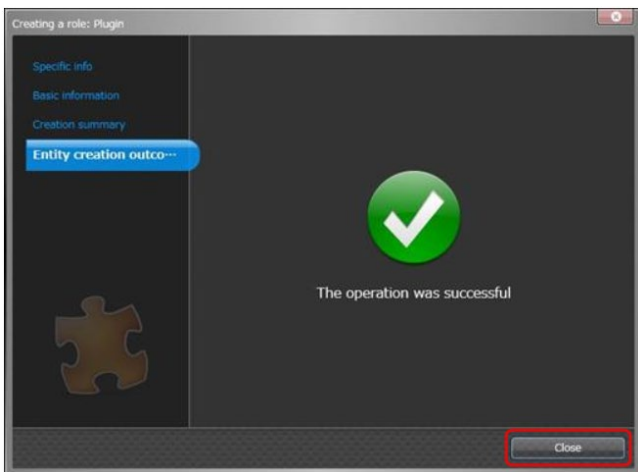
Connect Config Tool with Security Center. In the Config Tool site, click the [Plugins] in the [Tasks] menu.



Click the [Add an entity] button at the bottom left of the screen.



Select [i-PRO Active Guard Plug-in] and [Next].



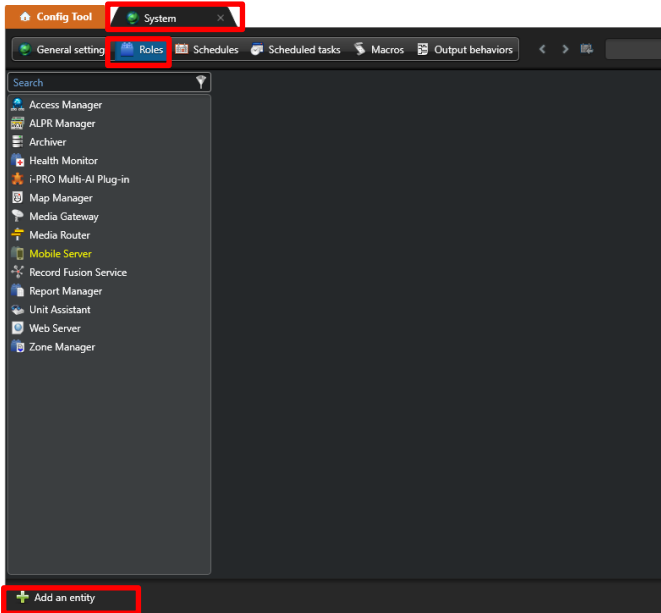
Install following the screen and [Close] when finished.

4.2.3. Configure the Web-SDK

STEP1

[Config tool] – [System] - [Roles] button.

Click the [Add an entity] button at the bottom left of the screen and select the [Web-based SDK].



Click the [Next] button in [Basic information], [Create] button in [Creation summary] and [Close] button in [Entity creation outcome].

STEP2

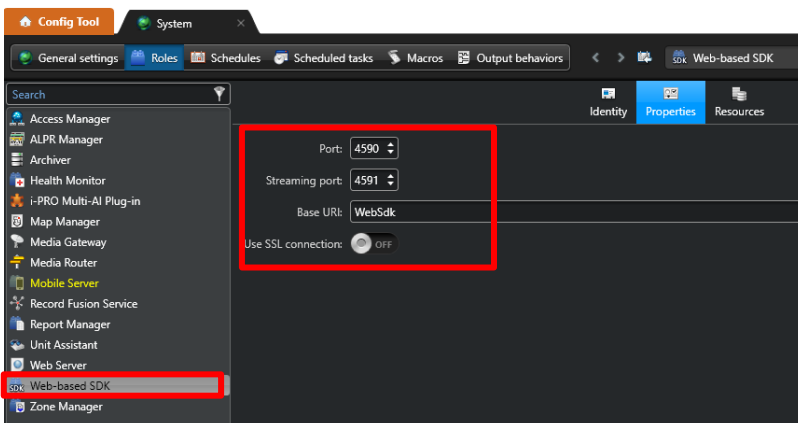
Confirm that [Web-based SDK] is displayed.

Click [Properties] in [Web-based SDK] and Setting as follows.

Port : 4590

Base URI : WebSdk

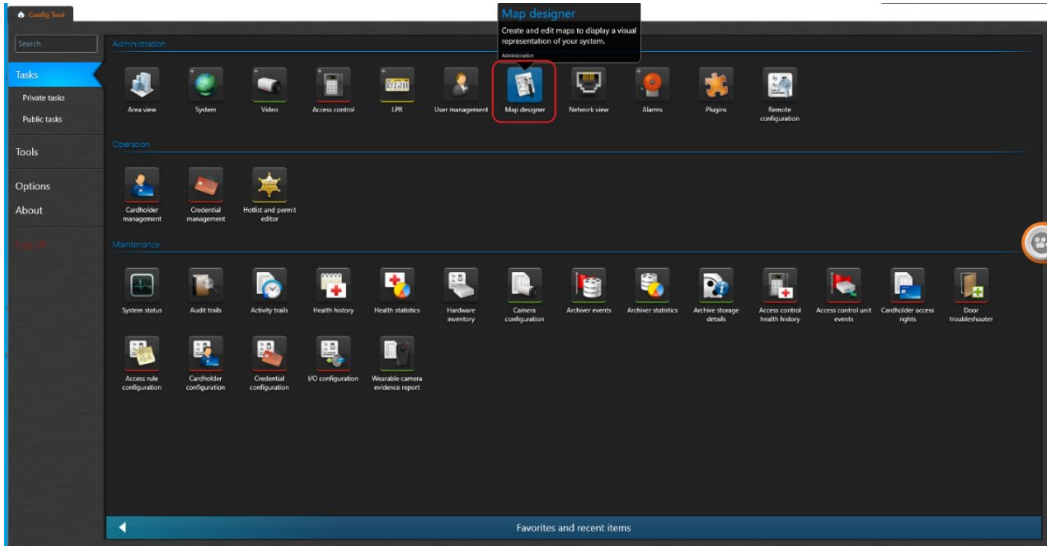
Use SSL connection can be used when using SSL connections.



4.2.4. Register cameras to Map (optional)

Using maps, operator can easily found the location of each Best shot image on Plug-in screen. See operation manual of Security Center in details.

([Config Tool] – [Map designer])



4.3. Install and setup i-PRO Active Guard server

Download the installer from <https://i-pro.com/global/en/surveillance/training-support/documentation-database-list/>

Install the i-PRO Active Guard server software. Configuration after installation can be done from web browser.

4.3.1. Install

Execute "MultiAIStartup.exe" as administrator (file path length must be less than 120).

When .NET Framework 4.8 is not installed on the PC, it will automatically be installed and the main screen of the setup tool will be displayed after the installation.

Check for [Agree] for License terms and [OK].

The image shows two screenshots of the i-PRO Active Guard Server Installation and Setup Launcher. The top screenshot is the 'Server Install Selection' screen. It has a 'Setup Procedure' sidebar with four steps: STEP1 (Select server type, highlighted in orange), STEP2 (Account registration), STEP3 (Install software), and STEP4 (Initial setting). The main area has two radio button options: 'install to PC with VMS server (Video Insight or Genetec)' (selected) and 'install to dedicated server PC'. Below this is the 'Database Selection' section with two radio button options: 'Install new SQL Server instance' (selected) and 'Use existing SQL Server instance'. The 'Database location' is set to 'C:\Program Files\Microsoft SQL Server'. A 'Database Setting...' button is visible. At the bottom, there are 'Next' and 'Cancel' buttons. The bottom screenshot is the 'Existing Database Setting' screen. It has an 'Instance' dropdown menu. Below it is the 'SQL Server Authentication' section with 'User name' and 'Password' input fields and a 'Connect' button. At the bottom, there are 'OK' and 'Cancel' buttons.

• Server Install Selection

Select [install to PC with VMS server] or [install to dedicated server PC].

Note)

When you install i-PRO Active Guard server to PC with VMS server, you need to install VMS server software in advance.

• Database Selection

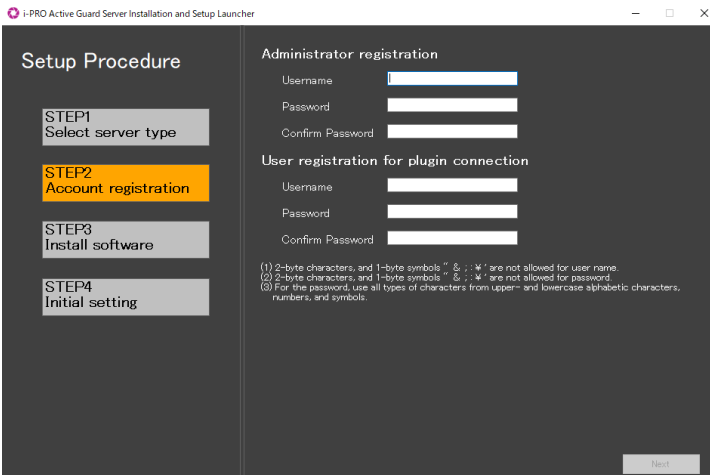
Select [Install new SQL Server instance] or [Use existing SQL Server instance].

Note)

If you select [Install new SQL Server instance] you need to set Database location.

If you select [Use existing SQL Server instance] you need to select exiting Database Setting and input credentials.

Click [Next].



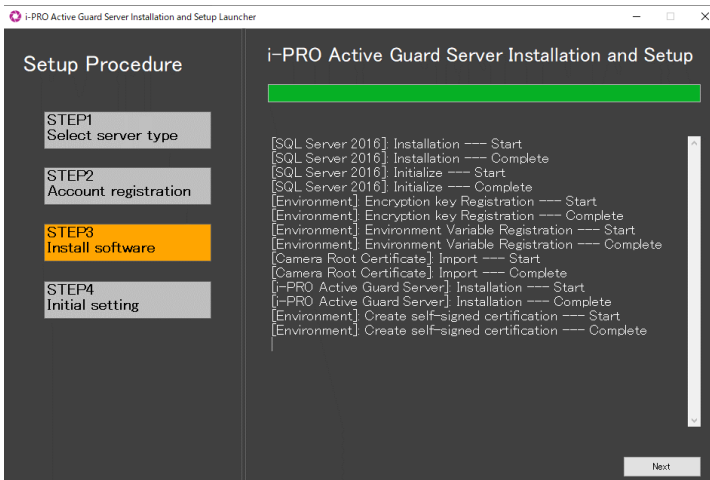
Register credentials and click [Next].

Note)

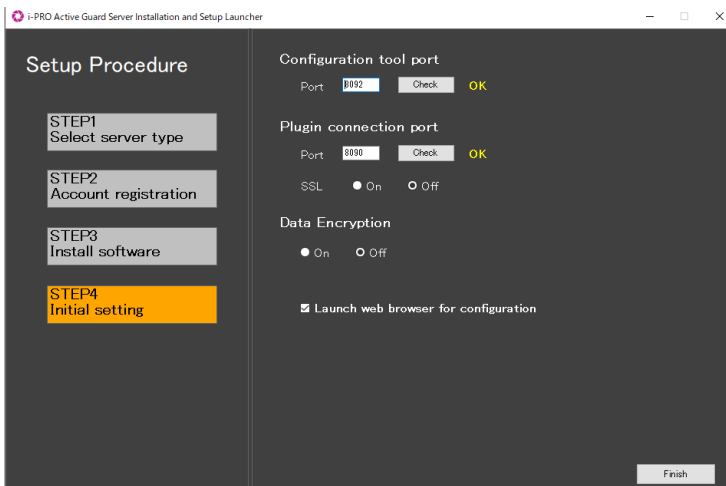
Make a note of the password you entered and keep it in a safe place.

When you forget the Administrator account, you can reset (Refer to 5.9).

When you forget the User account, you can reset (Refer to 4.3.7.2).



Installation starts and [Next] button will be appeared when finished. Click [Next].



Configure port number, SSL and Data encryption and [Finish].

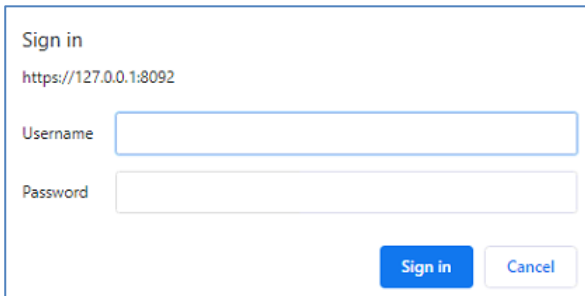
Note) When On is selected for Data Encryption, Image data will be encrypt. This setting cannot be changed after installation. Re-installation is required when you want to change after completing installation.

4.3.2. Setup i-PRO Active Guard server

4.3.2.1. Login

Access <https://<ip>:8092> using Google chrome, Microsoft Edge or Firefox.

Input credentials.



Note)

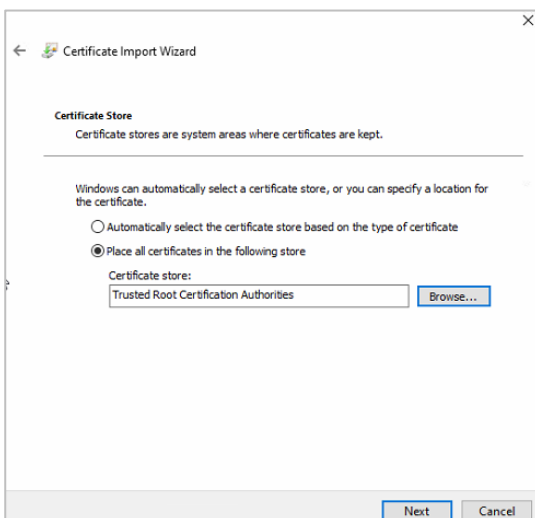
Credentials and port number configured by install tool 4.3.1 are used.

i-PRO Active Guard server uses self-signed certificate for web access.

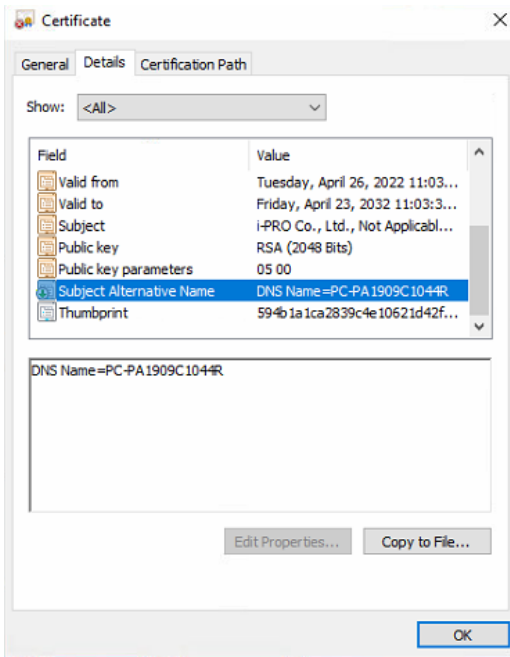
When the security alert window is displayed, click [advanced] and [Proceed to <ip> (unsafe)].

It is possible to prevent the warning display by performing the following procedure for each client PC to be accessed.

- 1) Copy "C:\MultiAI\apache24\conf\server.crt" in i-PRO Active Guard server PC to client PC.
- 2) Double click the file and click "Install Certificate".
- 3) Select "Local Machine" for Store Location
- 4) Select "Place all certificates in the following store" and "Trusted Root Certification Authorities".



5) Confirm “Subject Alternative Name” from “Details”. DNS Name=xxxx is shown.




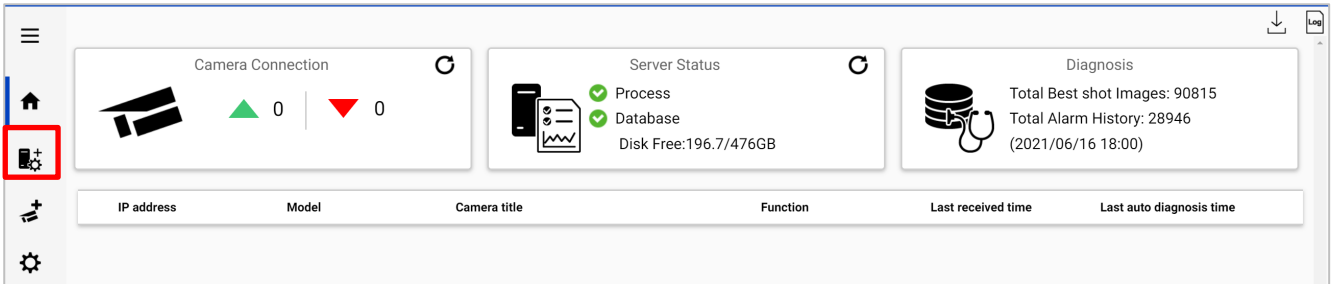
6) Open “C:\Windows\System32\drivers\etc\hosts” and add IP address of i-PRO Active Guard server and xxxx(DNS Name).

ex. 192.168.0.125 PC-PA1909C1044R

7) Access <https://xxxx:8092> using web browser.

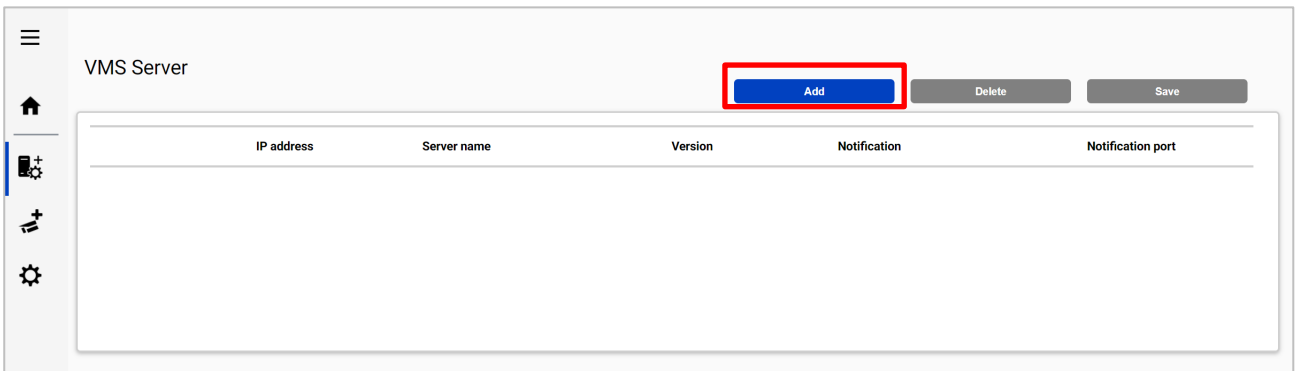
4.3.2.2. Register VMS

Click  (Register VMS)



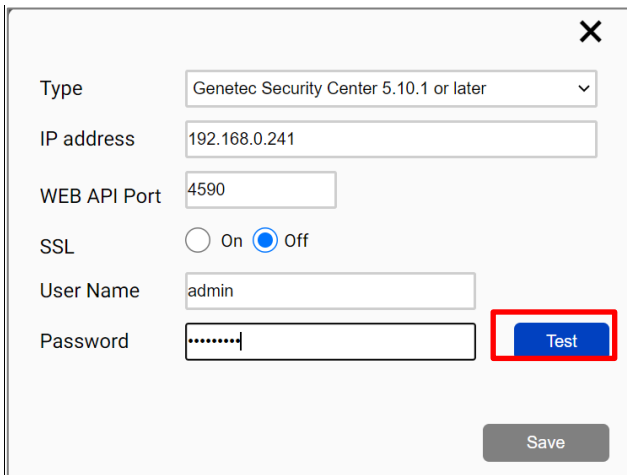
The dashboard overview includes three main sections: Camera Connection (0 up, 0 down), Server Status (Process, Database, Disk Free: 196.7/476GB), and Diagnosis (Total Best shot Images: 90815, Total Alarm History: 28946). A table below lists columns for IP address, Model, Camera title, Function, Last received time, and Last auto diagnosis time. A red box highlights the Register VMS icon in the left sidebar.

Click [Add]



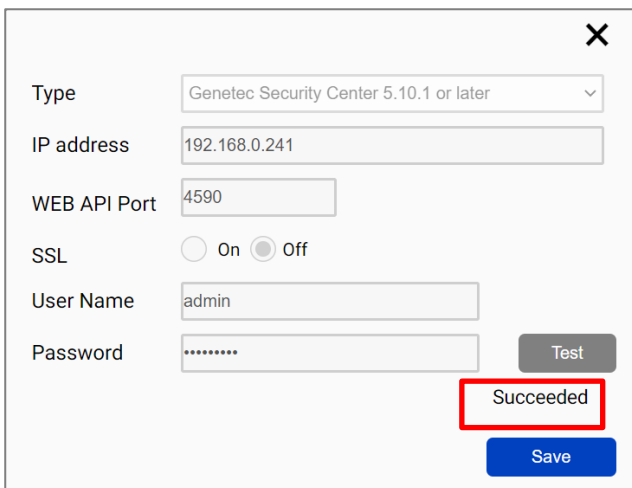
The VMS Server management interface shows an empty table with columns: IP address, Server name, Version, Notification, and Notification port. A red box highlights the 'Add' button.

Input Security Center's information and click Test



The form contains the following fields: Type (Genetec Security Center 5.10.1 or later), IP address (192.168.0.241), WEB API Port (4590), SSL (On/Off), User Name (admin), and Password (masked). A red box highlights the 'Test' button.

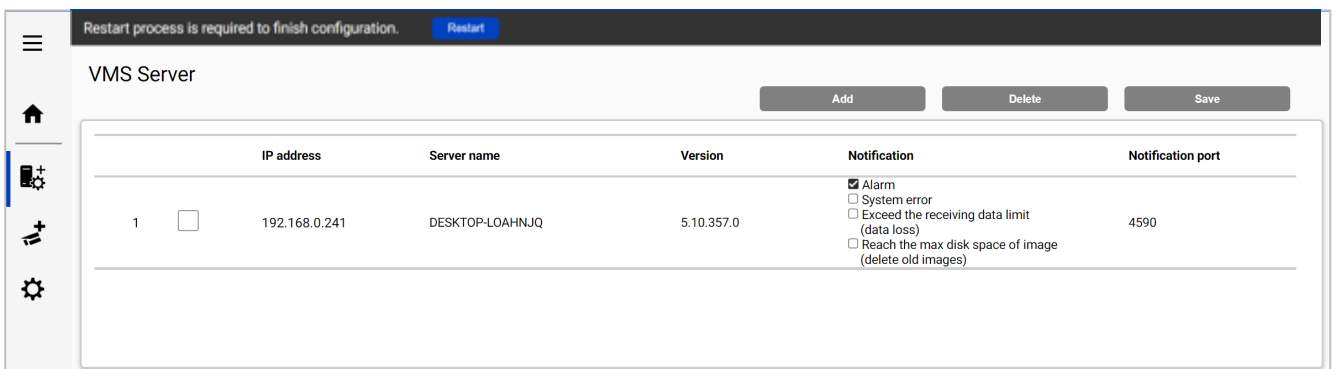
When Succeeded is shown, click Save



A configuration dialog box with a close button (X) in the top right corner. It contains the following fields and controls:

- Type: Genetec Security Center 5.10.1 or later (dropdown menu)
- IP address: 192.168.0.241 (text input)
- WEB API Port: 4590 (text input)
- SSL: On (radio button), Off (radio button, selected)
- User Name: admin (text input)
- Password: (password input)
- Test: button
- Succeeded: text label, highlighted with a red rectangle
- Save: button

Confirm VMS server is registered




The screenshot shows the VMS Server configuration page. At the top, a message states "Restart process is required to finish configuration." with a "Restart" button. Below the message, there are "Add", "Delete", and "Save" buttons. The main content is a table with the following columns: IP address, Server name, Version, Notification, and Notification port.

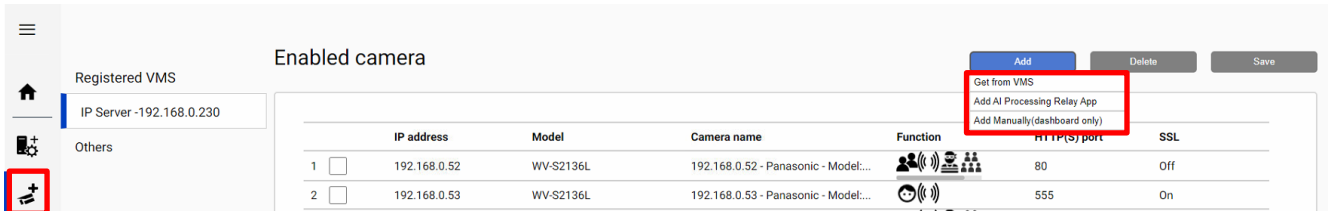
	IP address	Server name	Version	Notification	Notification port
1	192.168.0.241	DESKTOP-LOAHNJQ	5.10.357.0	<input checked="" type="checkbox"/> Alarm <input type="checkbox"/> System error <input type="checkbox"/> Exceed the receiving data limit (data loss) <input type="checkbox"/> Reach the max disk space of image (delete old images)	4590

Note) Restart button will be appeared on the top of screen, but you do not need click now.
You need to click Restart after completing all other configuration.

4.3.2.3. Register Cameras

Click  (Register Cameras)

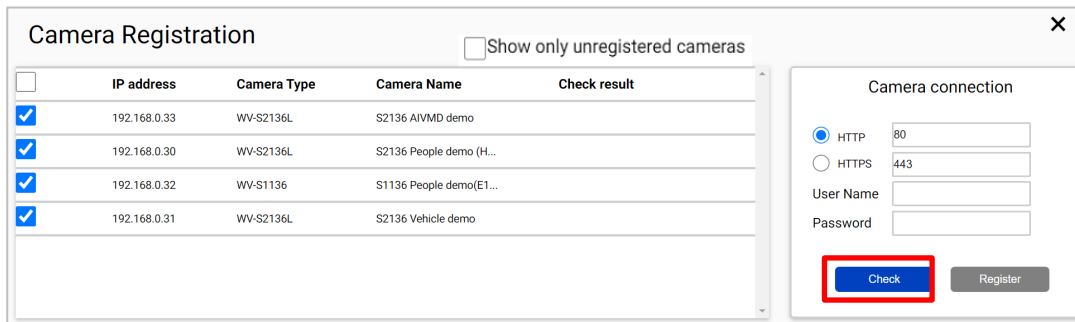
Select [Add] - [Get from VMS]



Note)

- When camera is selected from [Add AI Processing Relay App], Only cameras to which have added AI Processing Relay App can be registered. Set up the cameras you want to relay in the Camera setting browser and register it to VMS in advance. Enter IP address of the camera, credentials, [Check] and [Register].
- When camera is registered from [Add Manually(dashboard only)], only dashboard function can be used. Plug-in cannot use the camera. Enter IP address of the camera, credentials, [Check] and [Register].

All i-PRO cameras (including not supported cameras) are shown.
Input camera's credentials and click [Check].



Note)

Camera can be sorted by [IP address], [Camera Type] or [Camera Name].
Unregistered cameras can be filtered by checking [Show only unregistered cameras].

Icon related to AI function is shown for supported AI cameras.
Click [Register].

Camera Registration Show only unregistered cameras X

<input checked="" type="checkbox"/>	IP address	Camera Type	Camera Name	Check result
<input checked="" type="checkbox"/>	192.168.0.30	WV-S2136L	192.168.0.30 People ...	
<input checked="" type="checkbox"/>	192.168.0.32	WV-S1136	192.168.0.32 People ...	
<input checked="" type="checkbox"/>	192.168.0.33	WV-S2136L	192.168.0.33 Face d...	
<input checked="" type="checkbox"/>	192.168.0.31	WV-S2136L	192.168.0.31 Vehicle...	

Camera connection

HTTP

HTTPS

User Name

Password

(AI People detection)

(AI Vehicle detection)

(AI Face detection)

(AI-VMD)

(AI Sound classification)

(AI People Counting)

(AI Vehicle Counting)

(AI Scene Change detection)

Confirm cameras are registered

Restart process is required to finish configuration.

Registered VMS

IP Server - 192.168.0.207

	IP address	Model	Camera title	Function	HTTP(S) port	SSL	
1	<input type="checkbox"/>	192.168.0.33	WV-S2136L	192.168.0.33 Face demo		80	Off
2	<input type="checkbox"/>	192.168.0.30	WV-S2136L	192.168.0.30 People demo		80	Off
3	<input type="checkbox"/>	192.168.0.32	WV-S1136	192.168.0.32 People demo		80	Off
4	<input type="checkbox"/>	192.168.0.31	WV-S2136L	192.168.0.31 Vehicle demo		80	Off

Disabled camera

IP address	Model	Camera title	Function	HTTP(S) port	SSL

4.3.3. Restart process to apply changes

*To apply any configuration changes, restart process is required.

When you finish all configuration. Click “Restart” from display bar above or Home screen.

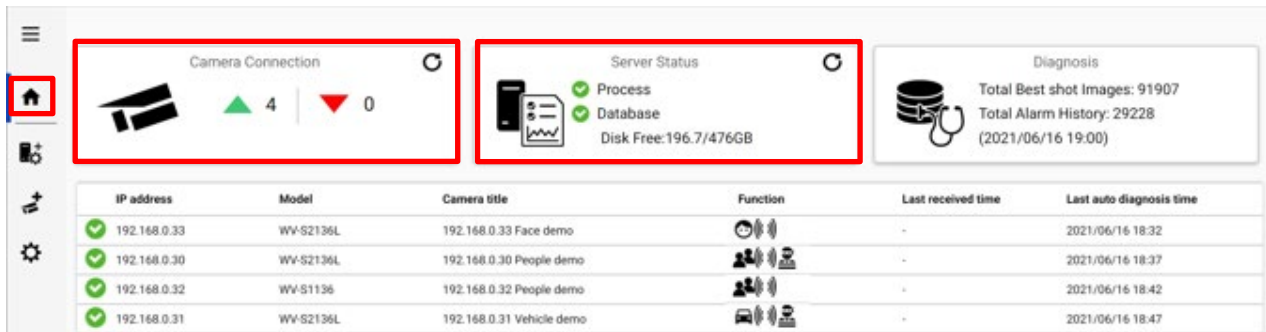
Restart process is required to finish configuration.

4.3.4. Check





Click  (Home)


- Check camera connection


Check all registered cameras are connected.



The screenshot shows the i-PRO Active Guard server interface. The top navigation bar includes a Home icon (highlighted with a red box), a Camera Connection widget (highlighted with a red box), a Server Status widget (highlighted with a red box), and a Diagnosis widget. The Camera Connection widget displays a green triangle with the number 4 and a red triangle with the number 0. The Server Status widget shows green checkmarks for Process and Database, and a disk free status of 196.7/476GB. The Diagnosis widget shows statistics for Best shot Images and Alarm History. Below the widgets is a table of registered cameras.

IP address	Model	Camera title	Function	Last received time	Last auto diagnosis time
192.168.0.33	WV-S2136L	192.168.0.33 Face demo		-	2021/06/16 18:32
192.168.0.30	WV-S2136L	192.168.0.30 People demo		-	2021/06/16 18:37
192.168.0.32	WV-S1136	192.168.0.32 People demo		-	2021/06/16 18:42
192.168.0.31	WV-S2136L	192.168.0.31 Vehicle demo		-	2021/06/16 18:47


 means the number of camera connected. (meta data session between camera and i-PRO Active Guard server).

 means the number of camera disconnected. When disconnection detected, confirm network connection to camera.

- Check Server status

Check Process and Database shows status green. 

4.3.5. System configuration (optional)

Click  (Configure system) and change settings if needed.

4.3.5.1. General

Select [Auto], [English] or [Japanese] for [Language]. (Default: Auto).

Check or uncheck for [Send anonymous data to improve software and user experience].

Note) When the language configuration for web browser is other than English or Japanese, English is shown.

4.3.5.2. Client Plug-in connection

Select [HTTP] or [HTTPS] and port number (Default: Set by install tool at 4.3.1)

Client plugin connection

<input checked="" type="radio"/> HTTP	<input type="text" value="8090"/>	(1-65535)
<input type="radio"/> HTTPS	<input type="text" value="8091"/>	(1-65535)

Note) For secure communication, HTTPS is recommended.

4.3.5.3. Configuration page access

Set port number for configuration tool (Default: Set by install tool at 4.3.1)

Configuration tool access port


HTTPS	<input type="text" value="8092"/>	(1-65535)
-------	-----------------------------------	-----------

Note) When you change and restart software at 4.3.2, you need to access `https://<ip>:<port>` using new port number. Make a note not to forget.

4.3.5.4. Database


Configuration item	Comment
Storing images in database	<p>All data(default): Store all data including images</p> <p>Only alarm and statistics data: Store only alarm and statistics data</p> <p>Only statistics data: Store only statistics data</p>
Retention period	<p>[For face image/statistics, people image/statistics, vehicle image/statistics and alarm history]</p> <p>Using SQL Server Express Edition:1 – 31 days (Default: 31) can be set</p> <p>Using SQL Server Standard Edition:1 – 366 days (Default: 366) can be set</p> <p>[For people/vehicle count including heat map statistics]</p> <p>Using SQL Server Express Edition:1 – 92 days (Default: 92) can be set</p> <p>Using SQL Server Standard Edition:1 – 366 days (Default: 366) can be set</p> <p>Note)</p> <p>Data after retention period will be deleted at night (0:00am ~ 3:30 am). If the server is shut down, data cannot be deleted, so new data may not be stored due to lack of storage space.</p>
CSV backup	<p>Enable/Disable can be configured. (Default: Disable)</p> <p>When enable and the retention period for people counting data expires, the data will be deleted from SQL server but automatically backed up as CSV file. Data in CSV file cannot be shown on dashboard.</p> <p>Note) When enable, [Max usage of image storage drive] will be also enabled automatically.</p>
Max usage of image storage drive(*)	<p>Enable/Disable and data size 10- 2000 (GB) can be configured. (Default: Disable)</p> <p>Note)</p> <p>When enable, and the used disk space of drive for storing Best shot images exceed the setting value, old image will be deleted automatically. This works every hour.</p> <p>You can manage data size using this configuration that i-PRO Active Guard server stores. Used disk space equals total volume minus free space.</p>
Image data save path	<p>Save path for images (Default: C:¥MultiAI¥Image)</p> <p>Note)</p> <p>When you change save path, all existing image data cannot be used from Plug-in.</p>
SQL Server data save path	<p>SQL Server data save path is shown set by install tool at 4.3.1. You cannot change this after installation.</p>
Max frequency of receiving object data (per sec)	<p>50 -300 (Default: 100)</p> <p>Note:</p>

	<p>If the number of object data from all cameras exceed the value, those object data will be discarded to reduce disk access so that system is stable.</p> <p>SSD is required in case of 100 or more. When you set over 100 using HDD, system will be unstable.</p>
Data encryption	On/Off is shown set by install tool at 4.3.1. You cannot change this after installation.

* Simple calculator can be used by clicking 

Input parameters of your system and click Calc.

Estimated used disk space is shown.



Number of cameras

Face People Vehicle People counting

Average number of object per camera, per hour

Face People Vehicle

Retention period(day)

Face People Vehicle People counting

System operating time(hours per day)

Face People Vehicle People counting

Estimated used disk space

image/heatmap:38.24GB

database:2.31GB

Note)

Estimated used disk space is just a reference. Actual data size highly depends on actual environment.

4.3.5.5. Initialization

Image: delete all Best shot images.

Alarm history: delete all alarm history.

Statistics data: delete statistics data including heat map data.

Watchlist: delete all face watchlist, people watchlist and vehicle watchlist. See operation manual about watchlist.

Configuration: delete all registration data (VMS, Camera and logs) except for port and user account.

Note)

It may take time to delete image depending on the number of images. When deleting, button will be as follows. Please update page to confirm the latest status.

Image Alarm history Statistics data


Watchlist Configuration
(Except for port and user account)

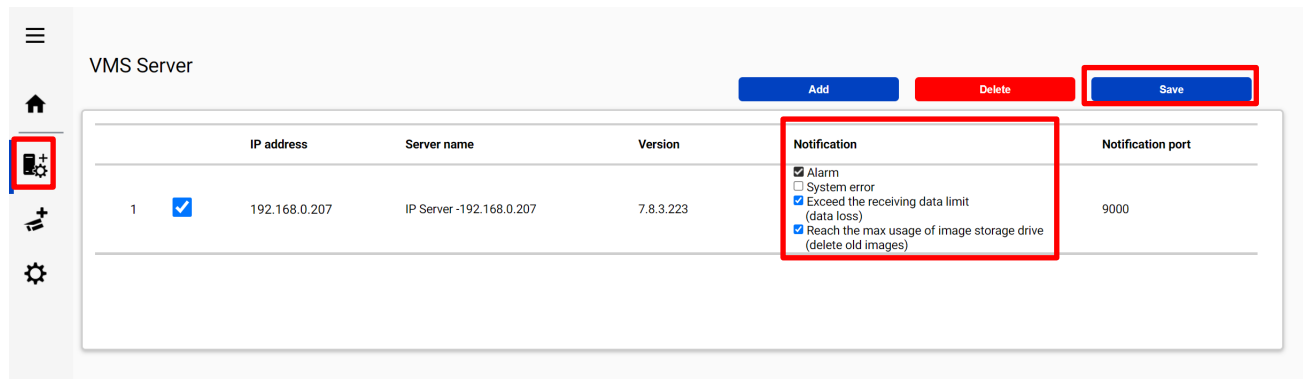
Now deleting

4.3.6. Notification to VMS Server (optional)

Some alarms related to i-PRO Active Guard server failure can be enabled.

Actions on VMS side also can be configured (4.5 Custom alarm setup (optional))

Click  (Register VMS)



VMS Server

Add Delete Save

	IP address	Server name	Version	Notification	Notification port
1	192.168.0.207	IP Server -192.168.0.207	7.8.3.223	<input checked="" type="checkbox"/> Alarm <input type="checkbox"/> System error <input checked="" type="checkbox"/> Exceed the receiving data limit (data loss) <input checked="" type="checkbox"/> Reach the max usage of image storage drive (delete old images)	9000

Check following items that you want and Save.

System error

Error that i-PRO Active Guard server detects. (ex. camera connection error between camera and i-PRO Active Guard server.)

Exceed the receiving data limit (data loss)

When the data exceeds the setting value for “Max frequency of receiving object data (per sec)” configured at 4.3.5.4.

Reach the max disk space of image (delete old images)

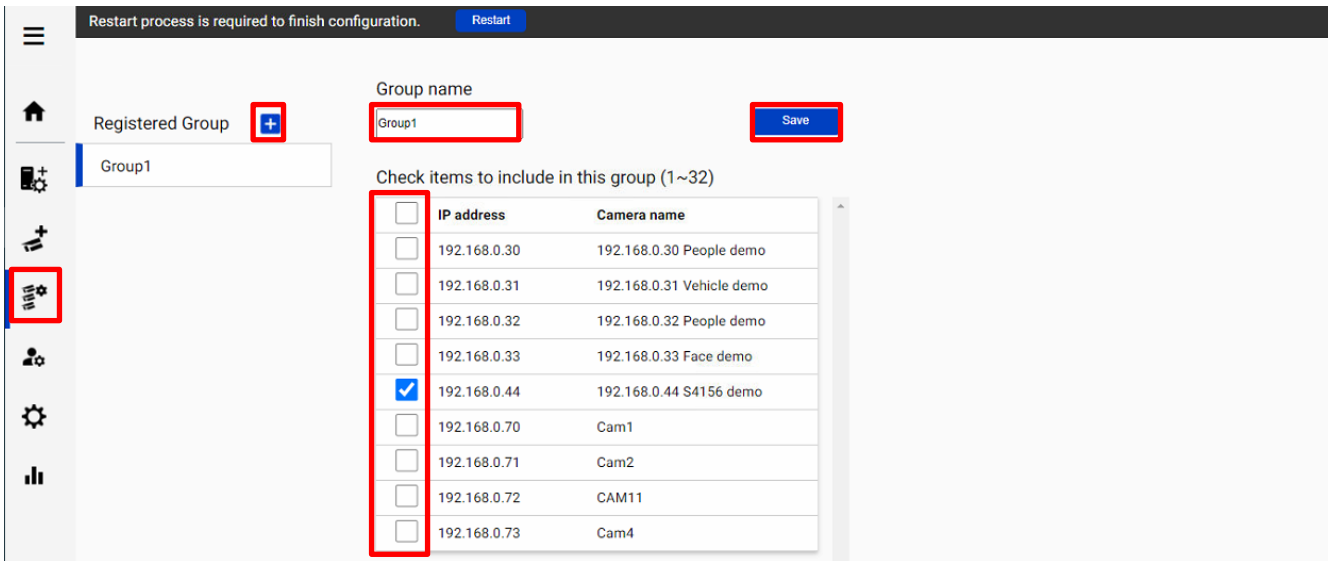
When the usage of image storage drive exceeds the setting value for “Max usage of image storage drive (GB)” configured at 4.3.5.4.

4.3.7. Dashboard configuration (optional)

4.3.7.1. Camera group configuration

When displaying the chart on the dashboard, it is possible to display it as statistical information for each group consisting of multiple cameras instead of statistical information for each camera.

Click  (Camera Group).



Restart process is required to finish configuration. [Restart](#)

Registered Group +

Group1 Save

Check items to include in this group (1~32)

<input type="checkbox"/>	IP address	Camera name
<input type="checkbox"/>	192.168.0.30	192.168.0.30 People demo
<input type="checkbox"/>	192.168.0.31	192.168.0.31 Vehicle demo
<input type="checkbox"/>	192.168.0.32	192.168.0.32 People demo
<input type="checkbox"/>	192.168.0.33	192.168.0.33 Face demo
<input checked="" type="checkbox"/>	192.168.0.44	192.168.0.44 S4156 demo
<input type="checkbox"/>	192.168.0.70	Cam1
<input type="checkbox"/>	192.168.0.71	Cam2
<input type="checkbox"/>	192.168.0.72	CAM11
<input type="checkbox"/>	192.168.0.73	Cam4


Click [+] button, input Group name, check for cameras and [Save].

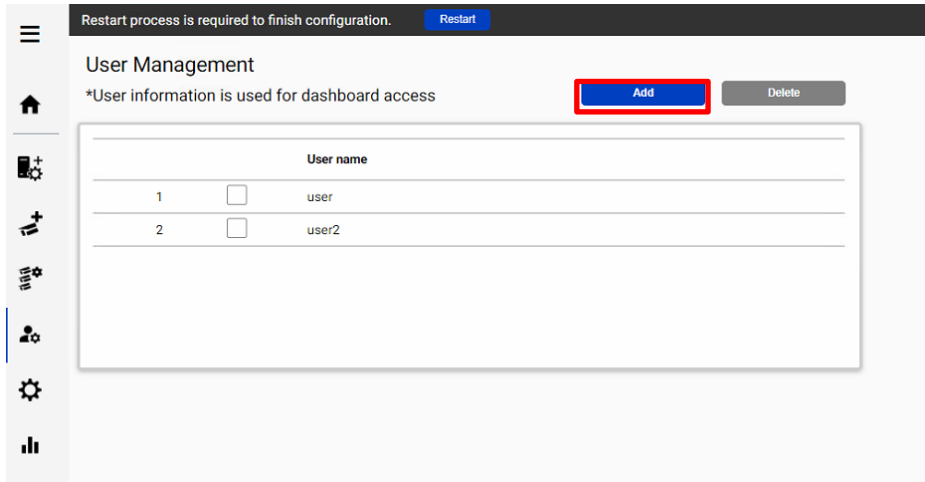
Note) Up to 16 groups can be configured.

To delete camera group, right click the group and select [Delete Camera Group].

4.3.7.2. User Management

By registering multiple users, it is possible to customize the dashboard display for each user.

Click  (User Management) and [Add].



Enter [User name], [Password] and [Retype password] and then [Save]

User name (1 to 32 characters)

Password (8 to 32 characters)

Retype password

(1) 2-byte characters, and 1-byte symbols " & ; : \ ' ^ = , < > | are not allowed for user name

(2) 2-byte characters, and 1-byte symbols " & ; : \ ' ^ = , < > | are not allowed for password

(3) For the password, use all types of characters from

upper- and lowercase alphabetic characters, numbers, and symbols.

Note) User information can also be used for Plug-in connection.

[User name] set by install tool at 4.3.1 is shown as default. [Password] is not shown.

If you forget password, delete the user and register again.


4.3.8. More information about status (optional)


4.3.8.1. Camera Connection




The screenshot displays a dashboard with three main sections: Camera Connection, Server Status, and Diagnosis. The Camera Connection section shows 4 cameras connected and 0 disconnected. The Server Status section shows Process and Database are running, with 196.6/476GB disk free. The Diagnosis section shows 93632 total best shot images and 29733 total alarm history. Below these is a table with columns for IP address, Model, Camera title, Function, Last received time, and Last auto diagnosis time. The last row of the table is highlighted with a red border, indicating a camera with a connection error.

IP address	Model	Camera title	Function	Last received time	Last auto diagnosis time
92.168.0.33	WV-S2136L	192.168.0.33 Face demo	Face	2021/06/16 19:54	2021/06/16 19:42
92.168.0.30	WV-S2136L	192.168.0.30 People demo	People	2021/06/16 19:54	2021/06/16 19:47
92.168.0.32	WV-S1136	192.168.0.32 People demo	People	2021/06/16 19:54	2021/06/16 19:52
92.168.0.31	WV-S2136L	192.168.0.31 Vehicle demo	Vehicle	2021/06/16 19:33	2021/06/16 19:37

 : Camera is connected.

 : Camera is not connected.

 : Camera is connected, but last auto diagnosis result error.

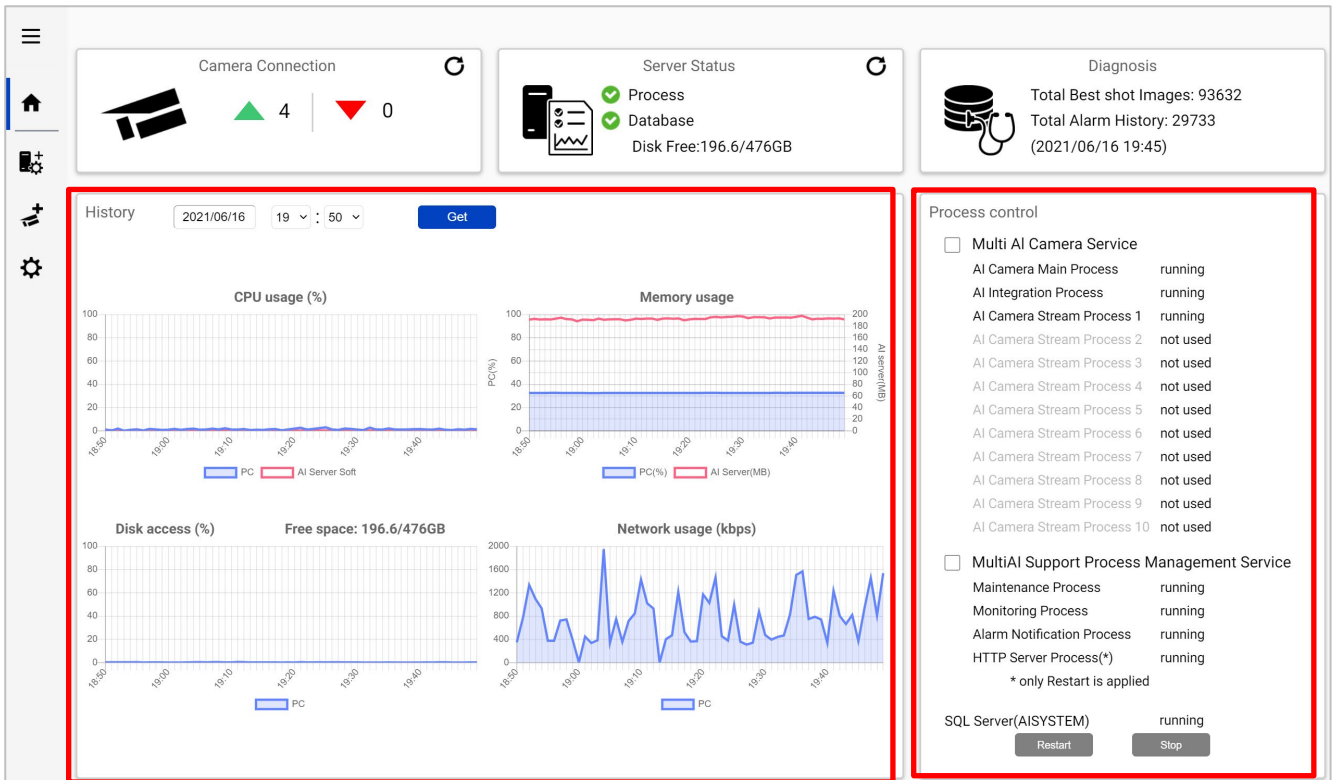
Metadata session is connected, but AI application on camera side may not work well. Check AI application on camera side is installed, schedule setting is on and also check whether “Last received time”.

“**Last received time**” shows the last detection time that the camera detected face, people, vehicle or alarm. If this time is older than when camera captured actually objects, AI application on camera side may not work well.

“**Last auto diagnosis time**” is the latest time when i-PRO Active Guard server tested connection to camera and database. The test executes every 5 minutes for a camera in order. When error occurs, the time is shown in red color. In that case, check Log and confirm the status of camera or database.

Note) When schedule setting for the AI application is off, last auto diagnosis will be failed. If it is intended, please ignore this indicator.

4.3.8.2. Server Status



History

History shows CPU usage, Memory usage, Disk access and Network usage of the i-PRO Active Guard server. CPU usage and Memory usage show the total value in the PC and i-PRO Active Guard server. Data for one hour from specified date is shown. Select date and get for previous date (within 31 days can be shown).

These data can be used to check whether PC performance is stable after installation or investigation of the system trouble.

Note) Data may not be shown correctly when PC is power off or i-PRO Active Guard server software is stopped for some duration.

Process Control

Processes related to i-PRO Active Guard server can be restarted or stopped. When the system is running, please check all processes show “running” or “not used”.

(The number of used “AI Camera Stream Process x” depends on the number of registered cameras.)

When it is required to restart PC, check “Multi AI Camera Service” and “Support Process Management Service” are stopped (also see 5.6.1).

When investigation to system trouble is required, please check status and try to restart.

4.3.8.3. Diagnosis

The screenshot displays the 'Diagnosis' section of a software interface. It features three main panels at the top: 'Camera Connection' showing 4 green and 0 red indicators; 'Server Status' with green checkmarks for 'Process' and 'Database', and 'Disk Free: 196.6/476GB'; and 'Diagnosis' statistics including 'Total Best shot Images: 93632' and 'Total Alarm History: 29733 (2021/06/16 19:45)'. Below these is a 'Record summary' table for the date 2021/06/16, filtered by 'All Best shot images'. The table lists data for four IP addresses across a 24-hour period. At the bottom, an 'Information' panel provides system details like OS, CPU, and memory usage.

IP address	16th Jun	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	
192.168.0.30	1046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	347
192.168.0.31	395	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
192.168.0.32	2156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	668
192.168.0.33	308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36

Information

System version: 1.0.0	OS: Windows 10 Pro, version 1903, build 18362.387	Tamper Protection: invalid	Virtual memory: 4864MB
Web version: -	CPU: Intel(R) Core(TM) i9-9900K CPU @ 3.60GHz	Fastboot: valid	Windows update: invalid

Record summary

Record summary shows the number of received data from each camera on the specified date. Selectable items depend on the registered camera and AI application.

*Selectable items


- All Best shot images
- Face Best shot images
- People Best shot images
- Vehicle Best shot images
- All alarm
- Registered face detection
- Registered people detection
- AI-VMD
- Sound detection
- AI Occupancy detection
- Registered vehicle detection
- AI Scene Change detection

Information

Software version, OS, windows configuration are shown.

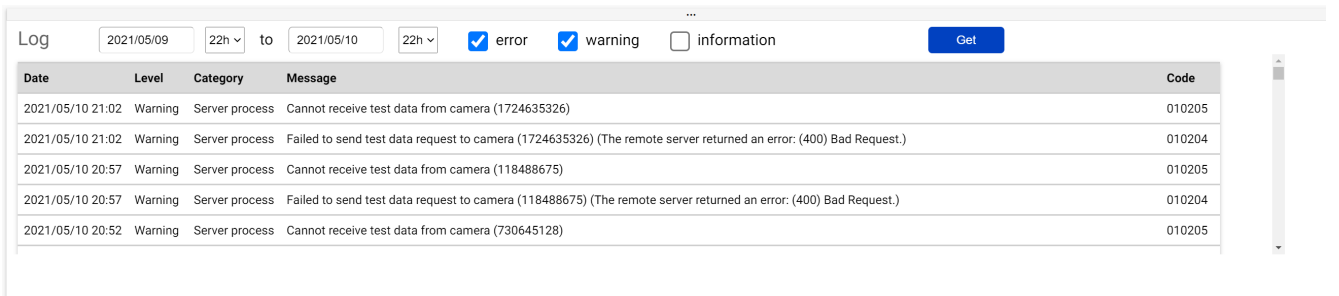
4.3.8.4. Display log



Click  to show logs.

Overview of system error can be displayed. Select date and error level (error, warning and information) and click Get.


Detail for each message and troubleshoot for Code is shown on 6.Troubleshooting.

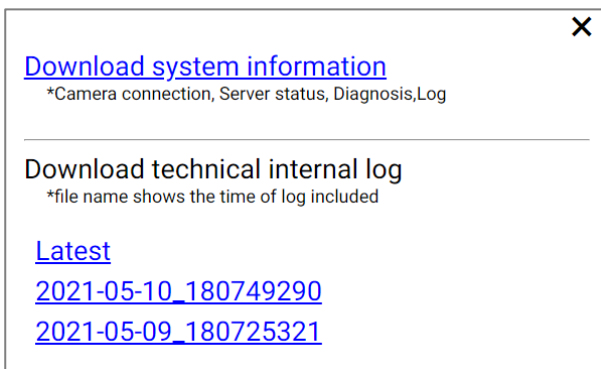


Note) Maximum 1000 logs can be shown at the same time.

4.3.8.5. Download log



Click  to download log.



Download system information

Download Camera Connection, Server Status, Diagnosis and Log loaded on screen as json format.

Download technical internal log

Download detail log. File name “yyyy-mm-dd_hhmmssfff” shows the time of log included. Log files are zipped automatically depending on the duration or size and the filename shows the time zipped.

Ex. “2021-05-10_180749290” includes logs from 2021-05-09 18:07:25.321 to 2021-05-10 18:07:49.290 on this example.

4.3.9. Windows setting

Following Windows configuration is required for i-PRO Active Guard server's work to be stable.
Location of configuration may differ depending on OS.

4.3.9.1. Disable Real-time protection and Tamper protection

This is required for i-PRO Active Guard server to keep the basic performance.

In case of Windows 10,

(Start – Settings – System – Update & Security – Windows Security – Virus & threat protection – Virus & threat protection - Virus & threat protection settings – Manage settings)

Off the “Real-time protection” and “Tamper protection”.

Windows server OS does not have Tamper protection feature.

4.3.9.2. Disable Windows Update service

Windows updates are important to keep the system up to date, but auto update may require unplanned restart and some new Windows feature may influence the i-PRO Active Guard server. To avoid unplanned restarts or influences, disable Windows update service.

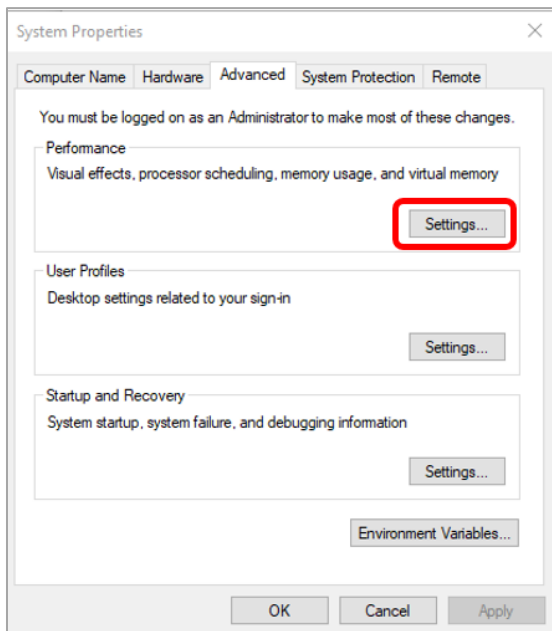
In case of Windows 10,

Start – Windows Administrative Tools – Services – right click “Windows Update” – Properties – select “Disabled” for “Startup type” and click OK.

4.3.9.3. Virtual memory setting

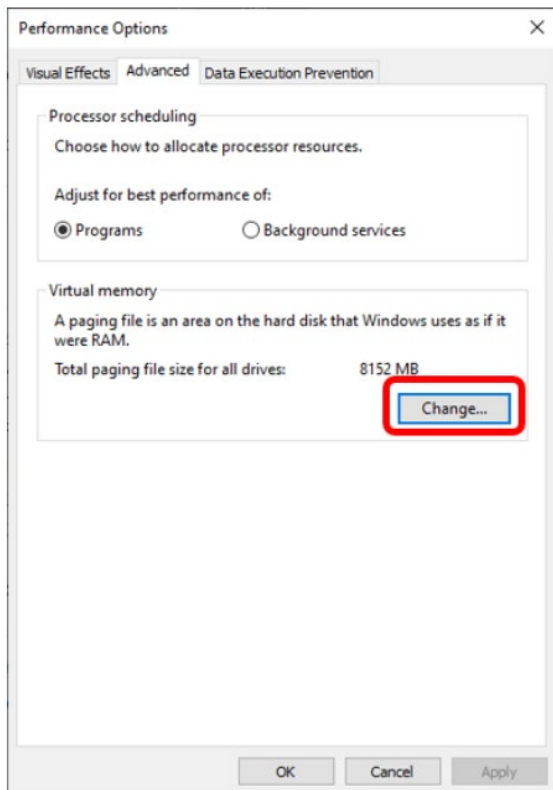
If the virtual memory is insufficient, the database may stop.

Follow the procedures below to check the virtual memory setting



In case of Windows 10,
Start – Windows System – Control Panel – System and Security – System – Advanced system setting

Select Settings



Select “Advanced” tab on “Performance Options” screen and click “Change...” button of Virtual memory.

Confirm that “Automatically manage paging file size for all drives” is checked on “Virtual Memory” screen. Check it and click “OK” button.

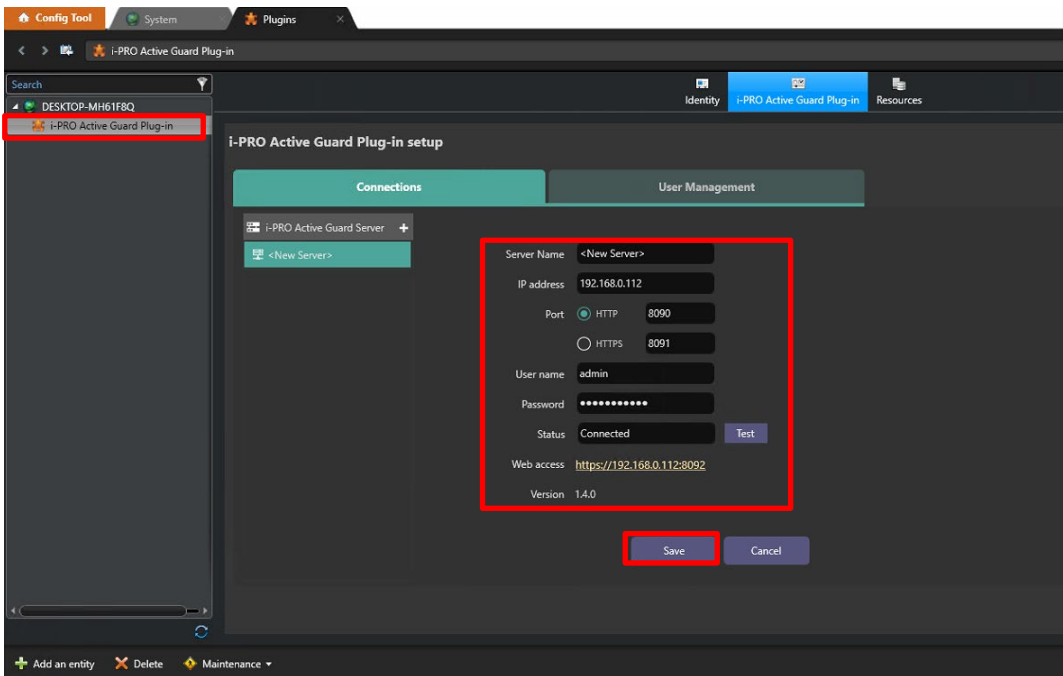
4.4. Install and setup Plug-in for Security Desk

4.4.1. Install Plug-in to Security Desk

Install Plug-in to PC that is Security Desk is installed referring to the section 4.2.2.1.

4.4.2. Connection to i-PRO Active Guard server

Connect Config Tool with Security Center. Select [Plugin], [i-PRO Active Guard Plugin]. Input Active Guard server information and Click [Test] and then click [Save].

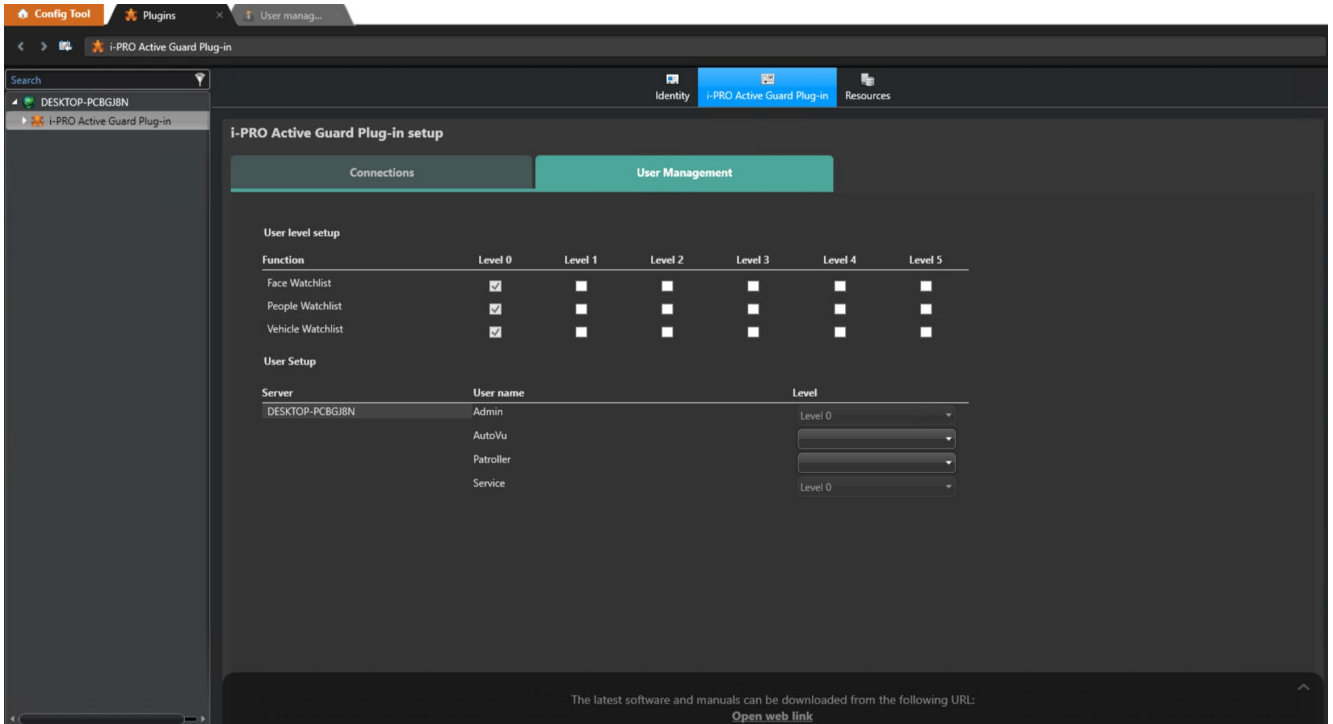


Note) If Test failed, please check if credential is correct.

4.4.3. User Management (Optional)

4.4.3.1. Privileges for plug-in specific function

Configure User Management for [Face Watchlist], [People Watchlist] and [Vehicle Watchlist] access. You need to also configure User settings ([Config Tool]-[User management] - [Privileges]) for not administrators to user watchlist.



4.4.3.2. Required privileges to use plugin for non-administrator

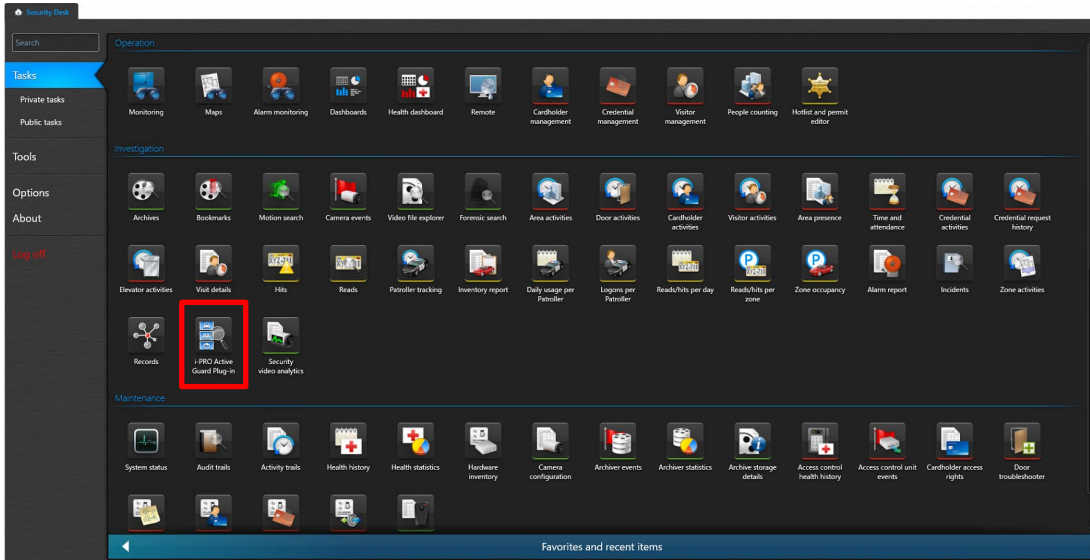
If non-administrator uses this software, the following privileges must be set to [Allow] at least.

- [Application privileges] – [Security Desk]
- [Task privileges] – [Administration] – [Plugins]
- [Action privileges] – [Cameras]

In addition to these, you may need to allow more privileges depending on the features of Security Center you use.

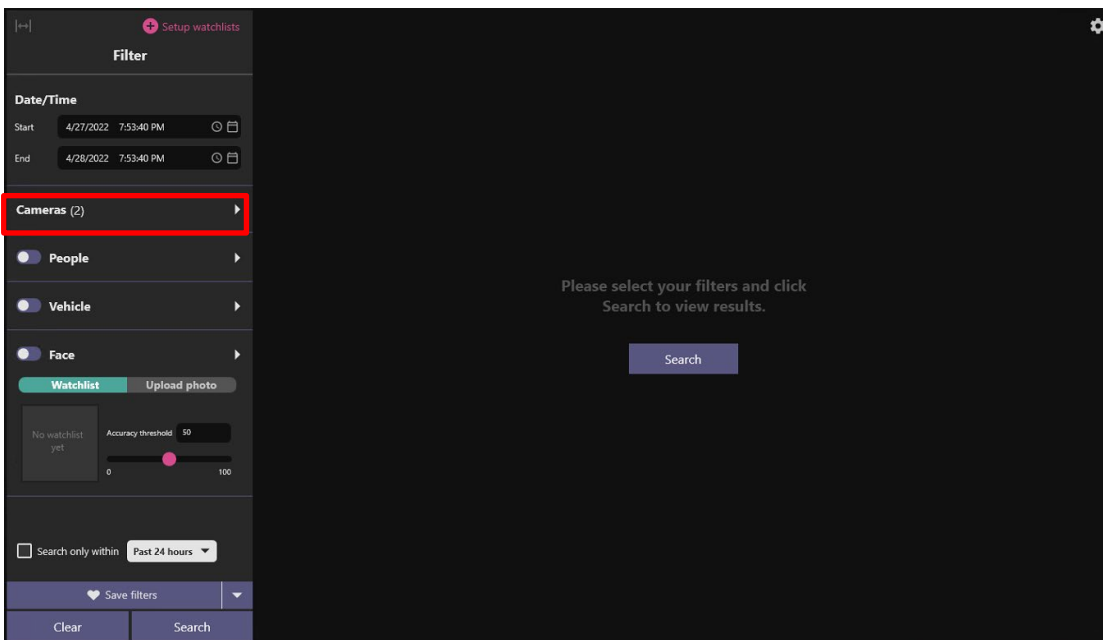
4.4.4. Check

Start Security Desk and select [i-PRO Active Guard Plug-in].



When the number is shown for “Cameras (x)”, Connection succeeded.

* x means the number of camera that Face, People or Vehicle extension software is installed.



When some camera has detected object, you can search Best shot images by clicking Search.

4.5. Custom alarm setup (optional)

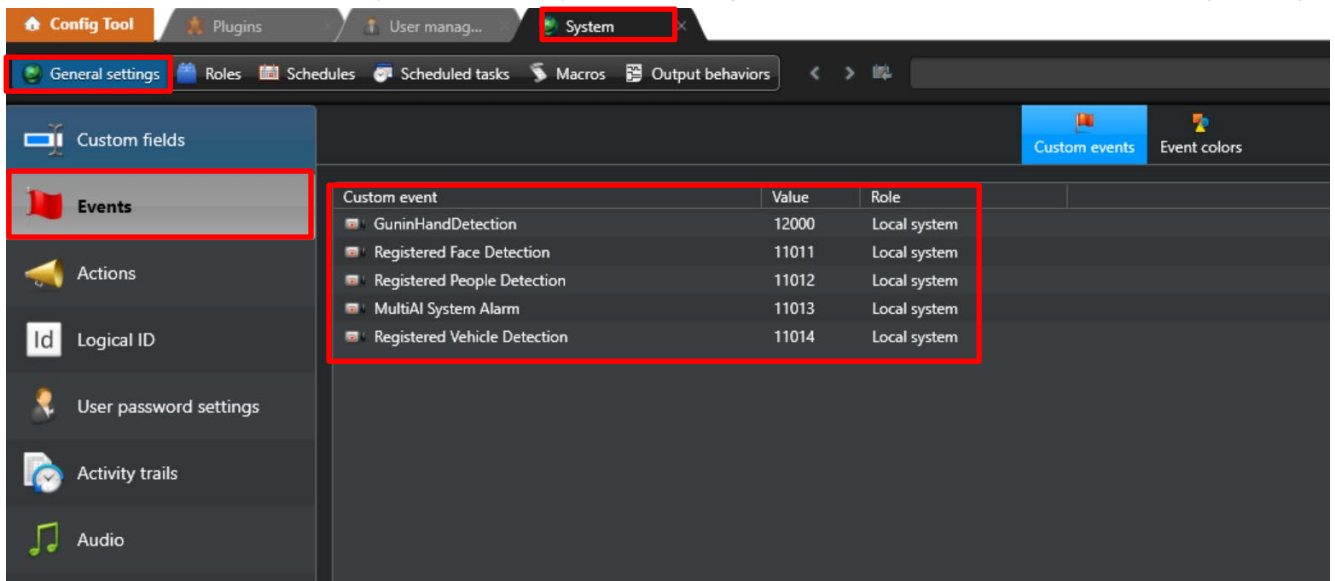
Registered face detection, Registered people detection and system alarm of i-PRO Active Guard server can be used as custom event on Security Center.

STEP 1

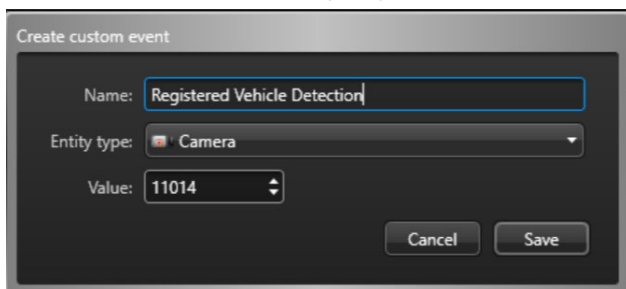
Connect Config Tool with Security Center. Select [System] - [General settings] - [Events].

Confirm "Registered Face Detection", "Registered People Detection", "Registered Vehicle Detection" and "Multi-AI system Alarm" exist.

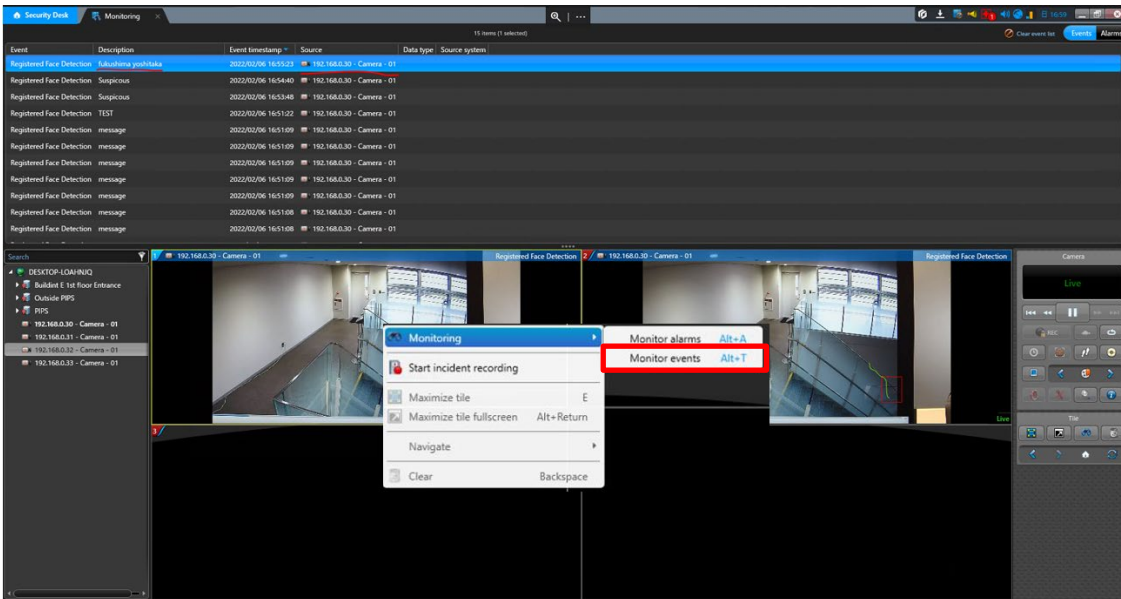
These are added automatically when Security Center is registered to i-PRO Active Guard server (4.3.2.2)



Note) If you update your server from V1.51 or earlier to V1.60 or later, "Registered Vehicle Detection" will not be added automatically. If you want to add it, please create a custom event manually.



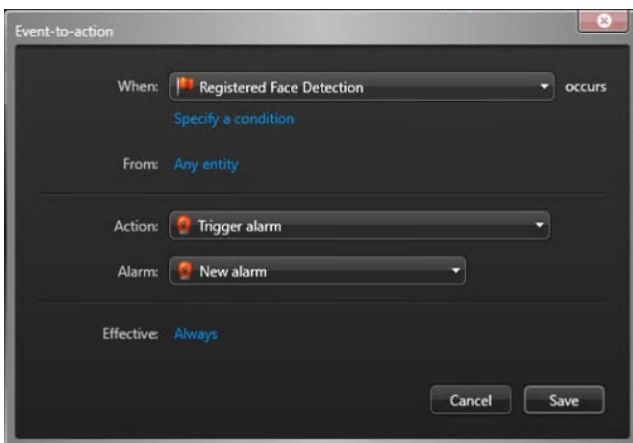
By enabling [Monitoring] – [Monitor events], “Registered Face Detection” and “Registered People Detection” will be shown.

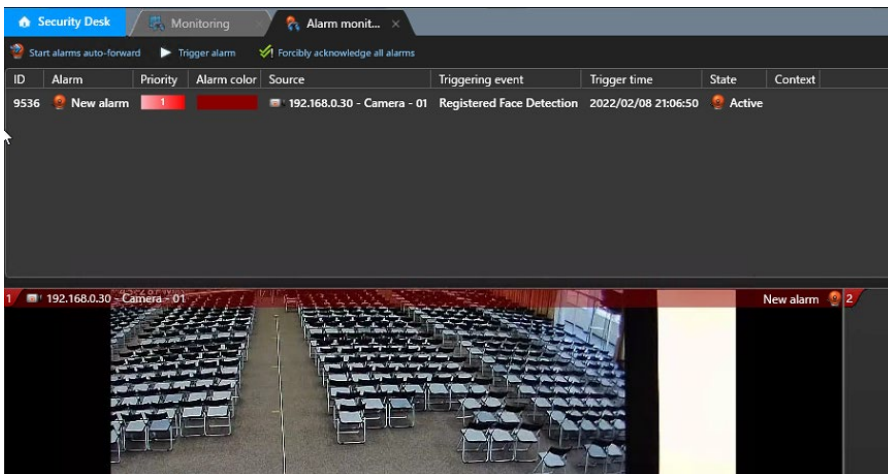


Registered face detection, Registered people detection and system alarm of i-PRO Active Guard server can also be shown as “Alarm” by configuring [Alarm] and [Actions],

STEP2

Select [Actions] setting. Set [When] to the custom event added in Step1, and select the camera for event source. And select [Action] in pull-down menu. (Other setting items depend on the [Action].)





Note) To use Multi-AI system Alarm, you also need to enable on i-PRO Active Guard configuration (Refer to 4.3.6).

5. When changing system component

5.1. Add system device

5.1.1. Add camera

STEP1

Register AI cameras to Security Center server using Security Desk (Refer to 4.2.1).

STEP2

Register AI cameras to i-PRO Active Guard server (Refer to 4.3.2.3)

STEP3

Restart process (Refer to 4.3.3)

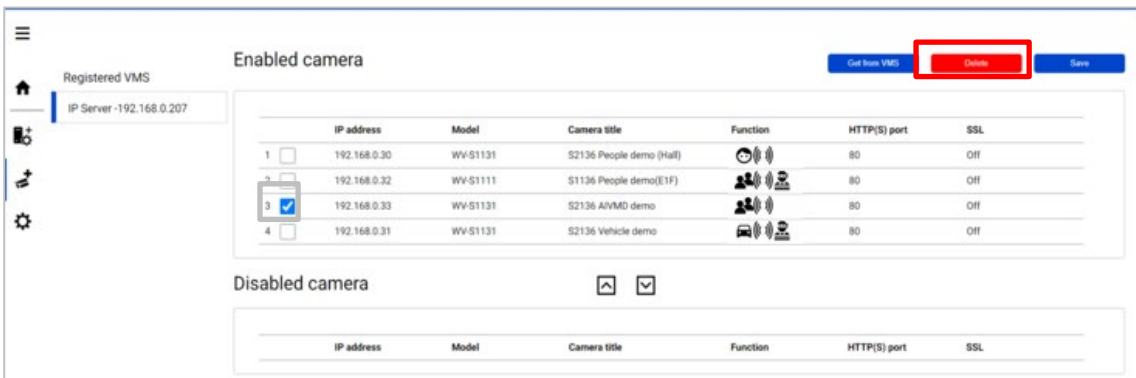
5.2. Delete system device

5.2.1. Delete camera

STEP1

Check camera and [Delete] from Register Cameras screen.

Existing data of the selected camera will be unavailable.



STEP2

Restart process (Refer to 4.3.3)

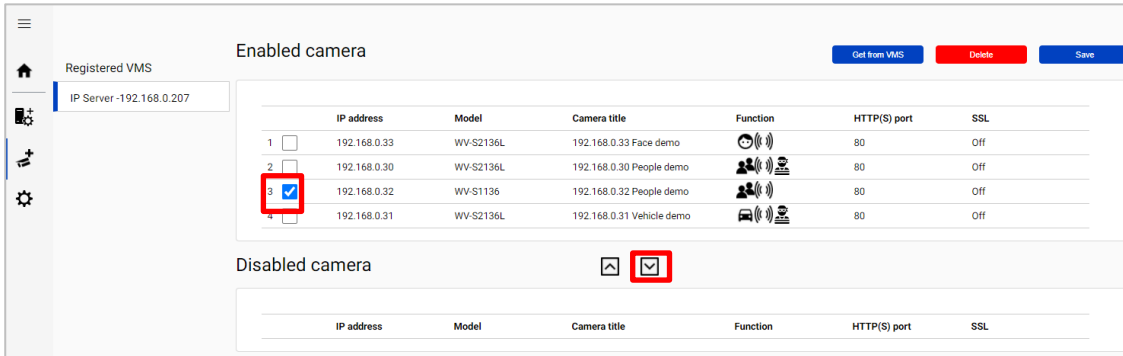
5.2.2. Disable camera

When you want disable specific cameras temporarily, which means there is a possibility you want to search existing data of the camera later, configure the camera as Disabled camera.

STEP1

Check camera and move to Disabled camera from Register Cameras screen.

Existing data of the selected camera will be unavailable as long as the camera is disabled camera.



Registered VMS
IP Server -192.168.0.207

Enabled camera

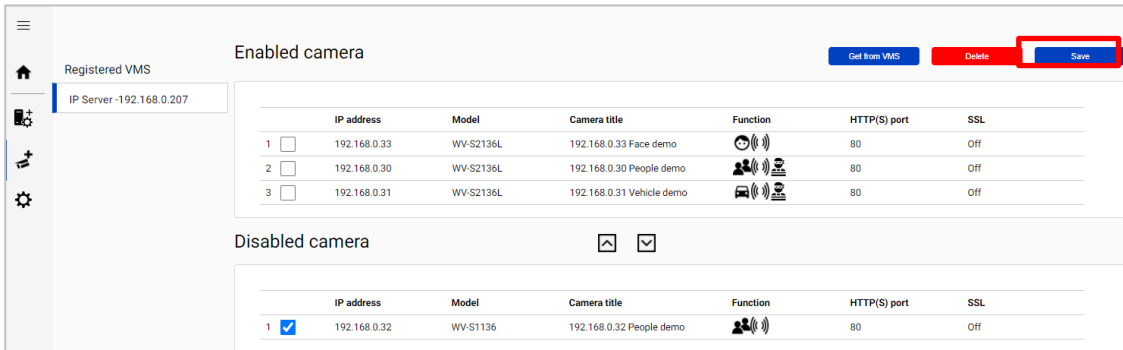
	IP address	Model	Camera title	Function	HTTP(S) port	SSL
1	192.168.0.33	WV-S2136L	192.168.0.33 Face demo		80	Off
2	192.168.0.30	WV-S2136L	192.168.0.30 People demo		80	Off
3	192.168.0.32	WV-S1136	192.168.0.32 People demo		80	Off
4	192.168.0.31	WV-S2136L	192.168.0.31 Vehicle demo		80	Off

Disabled camera

IP address	Model	Camera title	Function	HTTP(S) port	SSL
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STEP2

[Save]



Registered VMS
IP Server -192.168.0.207

Enabled camera

	IP address	Model	Camera title	Function	HTTP(S) port	SSL
1	192.168.0.33	WV-S2136L	192.168.0.33 Face demo		80	Off
2	192.168.0.30	WV-S2136L	192.168.0.30 People demo		80	Off
3	192.168.0.31	WV-S2136L	192.168.0.31 Vehicle demo		80	Off

Disabled camera

IP address	Model	Camera title	Function	HTTP(S) port	SSL	
1	192.168.0.32	WV-S1136	192.168.0.32 People demo		80	Off

STEP3

Restart process (Refer to 4.3.3)

When you want to use the camera and existing data of the camera again, move to Enabled camera and [Save].

Existing data of the camera will be available as long as retention period is not exceeded from Plug-in.

5.2.3. Delete Security Center

STEP1

Check server and [Delete] from Register VMS screen.

Cameras belonged to the selected server are also deleted and exiting data will not be searched from Plug-in.

When the same VMS server are registered again, existing data becomes available.

Best shot images and related database will be delete when retention period exceed.

VMS Server

Add Delete Save

	IP address	Server name	Version	Notification	Notification port	
1	<input checked="" type="checkbox"/>	192.168.0.206	IP Server -192.168.0.206	7.8.1.52	<input checked="" type="checkbox"/> Alarm <input type="checkbox"/> System error <input type="checkbox"/> Exceed the receiving data limit (data loss) <input type="checkbox"/> Reach the max disk space of image (delete old images)	9000
2	<input type="checkbox"/>	192.168.0.207	IP Server -192.168.0.207	7.8.1.52	<input checked="" type="checkbox"/> Alarm <input type="checkbox"/> System error <input type="checkbox"/> Exceed the receiving data limit (data loss) <input type="checkbox"/> Reach the max disk space of image (delete old images)	9000

STEP2

Restart process (Refer to 4.3.3)

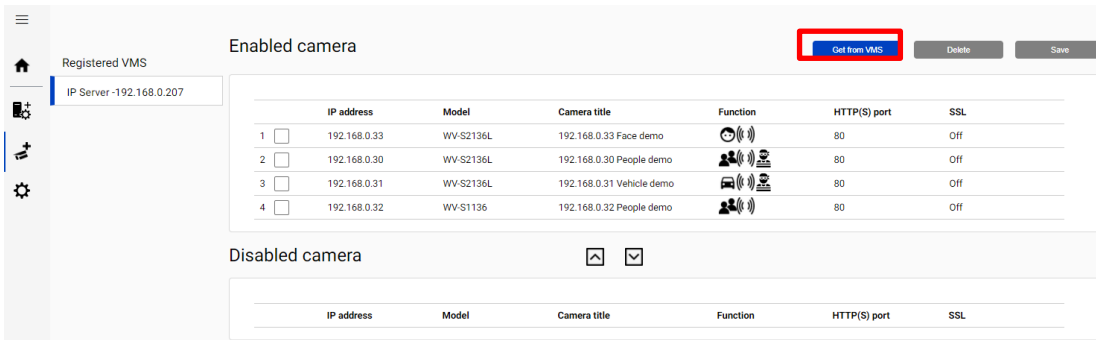
5.3. Add or Change camera's extension software

STEP1

Install or change extension software using iCT. (Refer to 4.1)

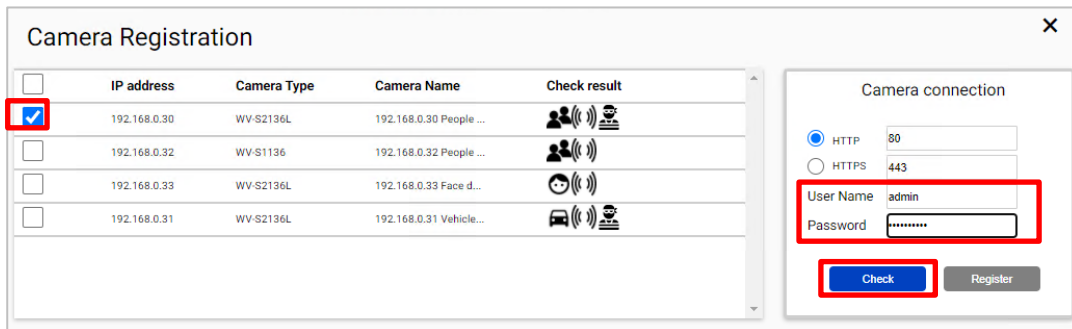
STEP2

Click [Get from VMS] on Register Cameras screen.



STEP3

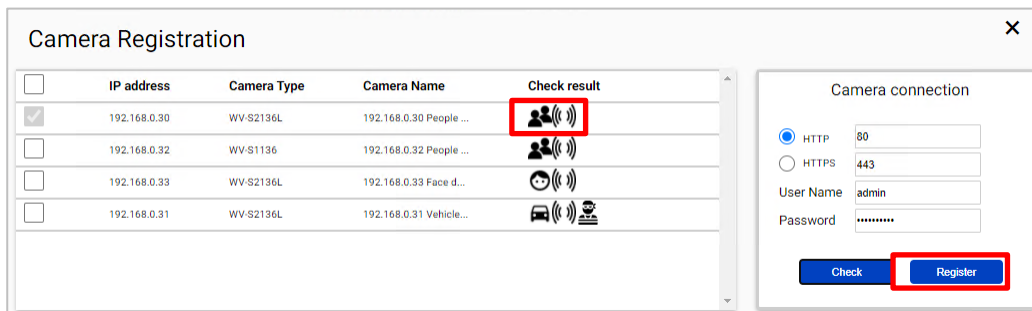
Select the camera and input credentials and [Check].



STEP4

Confirm the icons for Check result is changed and [Register].

In this example, AI-VMD is uninstalled (see 4.3.2.3 about the meaning of icons).



STEP5

Restart process (Refer to 4.3.3)

5.4. Uninstall the system

5.4.1. Uninstall Plug-in from client PC

STEP1

Open the Programs and Features window (from the Control Panel).

STEP2

Find [Multi AI Plugins] and [Uninstall].

5.4.2. Uninstall i-PRO Active Guard server

STEP1

Open the Programs and Features window (from the Control Panel).

STEP2

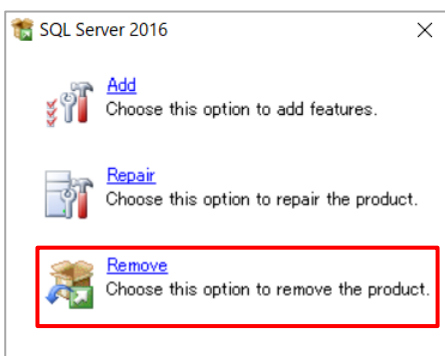
Find [Multi AI Plugins – Server] and [Uninstall].

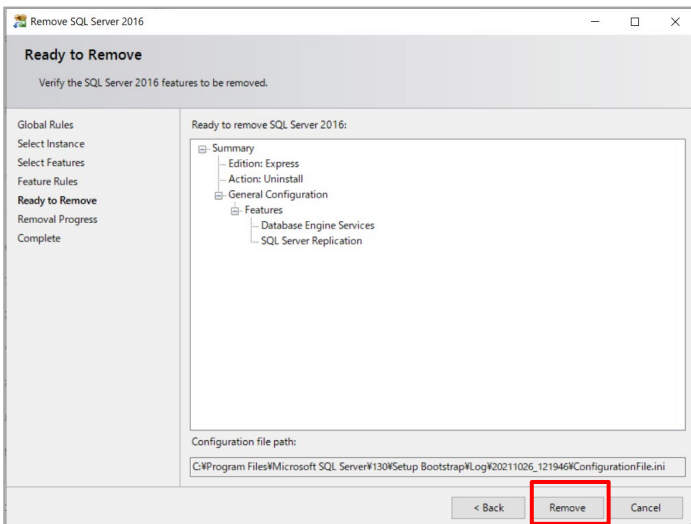
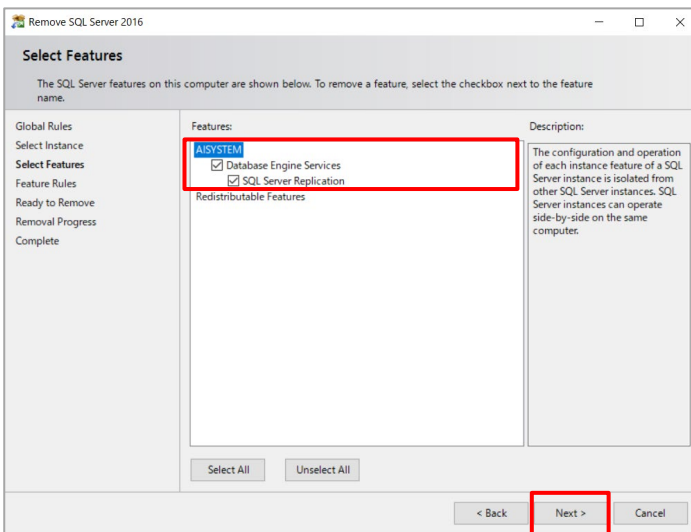
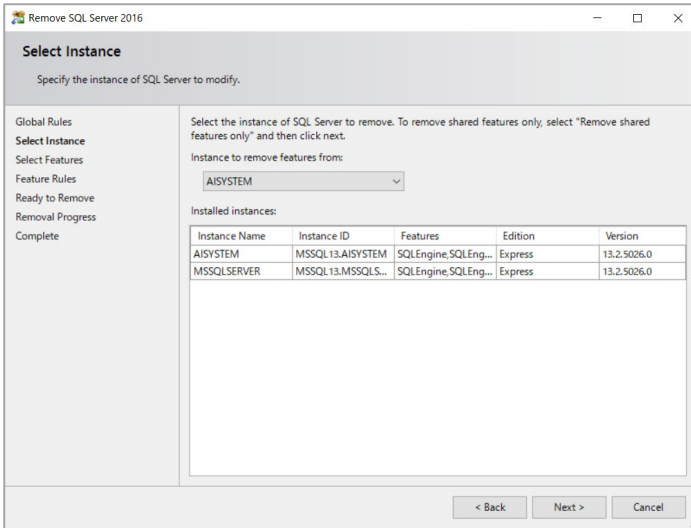
Delete “C:¥MultiAI” folder if exist.

STEP3

Find [Microsoft SQL Server 2016 (64 bit)] and [Uninstall].

Select [Remove] and delete “AISYSTEM” instance.





Note)

- SQL server instance that VMS uses is not deleted. Only instance for i-PRO Active Guard server is deleted.
- The instance name "AISYSTEM" is the default name. If you have specified an instance name as described in section 4.3.1, replace "AISYSTEM" with the specified instance name in the following sections.

STEP4

Delete “C:¥Program Files¥Microsoft SQL Server¥MSSQL13.AYSYSTEM” folder.

5.5. Change IP address

5.5.1. Change camera’s IP address

STEP1

Change camera’s IP address

STEP2

When you want to maintain existing recorded data and Best shot images of the camera, update IP Address and Save from Security Center ([Config tool] – [Video] – [Property setting of Video unit]).

Once deleting cameras from Security Center and re-register the camera using new IP address, existing data will be unavailable.

STEP3

Delete the camera from i-PRO Active Guard server (Refer to 5.2.1)

STEP4

Register the camera again (Refer to 4.3.2.3).

STEP5

Restart process (Refer to 4.3.3).

5.5.2. Change Security Center’s IP address

Existing recorded data and Best shot images are available after changing IP address.

STEP1

Change Security Center’s IP address.

STEP2

Delete the Security Center from i-PRO Active Guard server (Refer to 5.2.3)

STEP3

Register the Security Center again (Refer to 4.3.2.2).

STEP4

Restart process (Refer to 4.3.3).

5.5.3. Change i-PRO Active Guard server's IP address

Existing recorded data and Best shot images are available after changing IP address.

STEP1

Change i-PRO Active Guard server's IP address.

STEP2

Update configuration for Connection to i-PRO Active Guard server from Plug-in (Refer to 4.4.2).

5.6. Data backup and restore

Image data and related database can be backed-up manually. It is important to note that the reinstallation of i-PRO Active Guard server requires the same version of software for reinstallation from backup due to differences in each database version.

5.6.1. Backup process

STEP1

Start – Windows Administrative Tools – Task Scheduler. Right click and disable “AliveMonitoringProcess”

STEP2

Start – Windows Administrative Tools – Services.

Right click and stop for “MultiAICameraService”, “MultiAISupportProcessManagementService” and “SQL Server(AISYSTEM)”, respectively.

STEP3

Browse to SQL Server data save path (set by install tool at 4.3.1.) .

Copy “ai_db.mdf”, “aicam.mdf”, “support_db.mdf”, “ai_db_log.ldf”, “aicam_log.ldf”, “support_db_log.ldf”, “bi.mdf” and “bi_log.ldf” to safe location (i.e.: a USB drive, a NAS device, another server, etc.).

STEP4

Copy “C:\MultiAI\Image” folder to safe location.

If you changed image data save path, copy the folder.

Copy “C:\MultiAI\Backup\WebConfig” folder to safe location.

STEP5

Type “regedit” to Start menu and run. Right click two folder and export to safe location, respectively.

“%HKEY_LOCAL_MACHINE\SOFTWARE\Panasonic\AiSystem” or

“%HKEY_LOCAL_MACHINE\SOFTWARE\i-PRO\AiSystem”.

“%HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Panasonic\AiSystem” or

“%HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\i-PRO\AiSystem”.

STEP6

Start – Windows Administrative Tools – Services.

Right click and run for “MultiAICameraService”, “MultiAISupportProcessManagementService” and “SQL Server(AISYSTEM)”, respectively.

STEP7

Start – Windows Administrative Tools – Task Scheduler. Right click and enable “AliveMonitoringProcess”

5.6.2. Restore process

STEP1

Start – Windows Administrative Tools – Task Scheduler. Right click and disable “AliveMonitoringProcess”

STEP2

Start – Windows Administrative Tools – Services.

Right click and stop for “MultiAICameraService”, “MultiAISupportProcessManagementService” and “SQL Server(AISYSTEM)”, respectively.

STEP3

Copy saved files “ai_db.mdf”, “aicam.mdf”, “support_db.mdf”, ai_db_log.ldf”, “aicam_log.ldf”, “support_db_log.ldf”, “bi.mdf” and “bi_log.ldf” to “C:¥Program Files¥Microsoft SQL Server¥MSSQL13.AISYSTEM¥MSSQL¥DATA” and replace existing files.

STEP4

Copy saved folder “Image” to “C:¥MultiAI” and replace existing files.

Copy saved folder “WebConfig” to “C:¥MultiAI¥Backup” and replace existing files.

STEP5

Double-click the saved registry export file. This will re-install the registry keys.

STEP6

Start – Windows Administrative Tools – Services.

Right click and run for “SQL Server(AISYSTEM)”.

STEP7

Execute “C:¥MultiAI¥tools¥restore_user¥restore_user.bat” as administrator

Note)

If you set the SQL server instance name to something other than "AISYSTEM", change the instance name in the bat file from "AISYSTEM" to the instance name you set and execute the file.

STEP8

Right click and run for “MultiAICameraService”, “MultiAISupportProcessManagementService”, respectively.

STEP9

Start – Windows Administrative Tools – Task Scheduler. Right click and enable “AliveMonitoringProcess”.

5.7. Procedure to move i-PRO Active Guard server location from Security Center's PC to dedicated server's PC

i-PRO Active Guard server location can be moved from Security Center's PC to dedicated server's PC, for example, when the number of cameras are increased or when distributing processing load is required.

5.7.1. Preparation of data and account information

STEP1

Prepare administrator account information of existing i-PRO Active Guard server when install.
If you forget administrator account, reset it (Refer to 5.9).

STEP2

Backup data (Refer to 5.6.1)

5.7.2. Install i-PRO Active Guard server to new PC and restore data

STEP1

Install i-PRO Active Guard server to new PC as dedicated server PC (Refer to 4.3.1).

Note) Account information you set when installing will be overwritten in restore process (Refer to step 2).

STEP2

Restore data (Refer to 5.6.2)

STEP3

Execute "C:\¥MultiAI¥tools¥init_dedicated_server.bat" as administrator

STEP4

Start – Windows Administrative Tools – Services.

Right click and Restart for "MultiAICameraService", "MultiAISupportProcessManagementService".

5.8. Procedure to restart/shut down i-PRO Active Guard server PC

As a safety precaution, it is recommended to stop the services before rebooting the computer.

STEP1

Stop i-PRO Active Guard server's process (Refer to 4.3.7.2).

STEP2

Restart or shutdown.

5.9. Reset administrator account

When you forget credential of administrator to access configuration, you need to reset on PC that i-PRO Active Guard server is installed.

Execute "C:\MultiAI\tools\ChangeAdminPassword\ChangeAdminPassword.exe" as administrator and set credentials.

5.10. Upgrade SQL server to Standard Edition

You can determine if you need Standard Edition from 3.3.

If you need it, please follow the steps below to upgrade after purchasing the license.

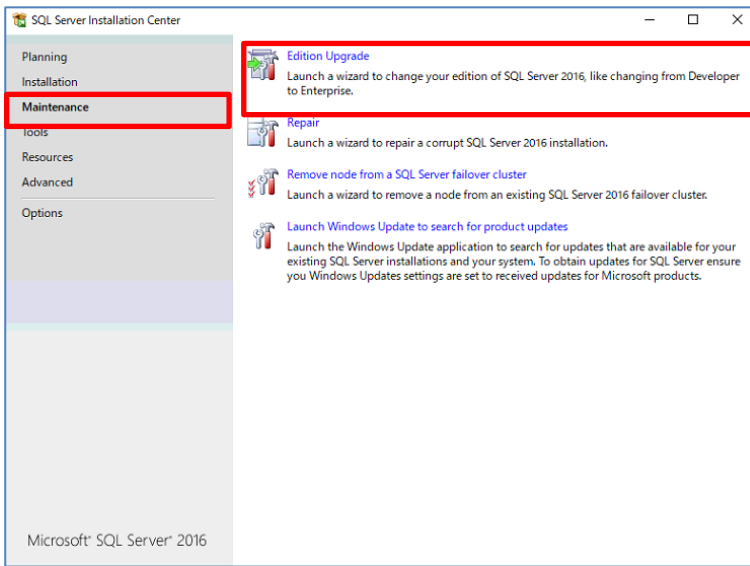
i-PRO Active Guard server software need to be installed in advance.

STEP1

Start [setup.exe] from install media of SQL server Standard Edition.

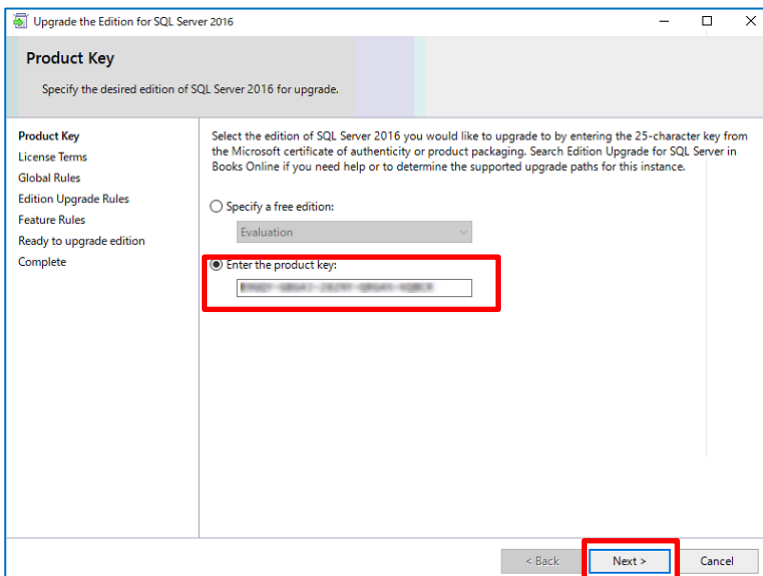
STEP2

Select [Edition Upgrade] from Maintenance.



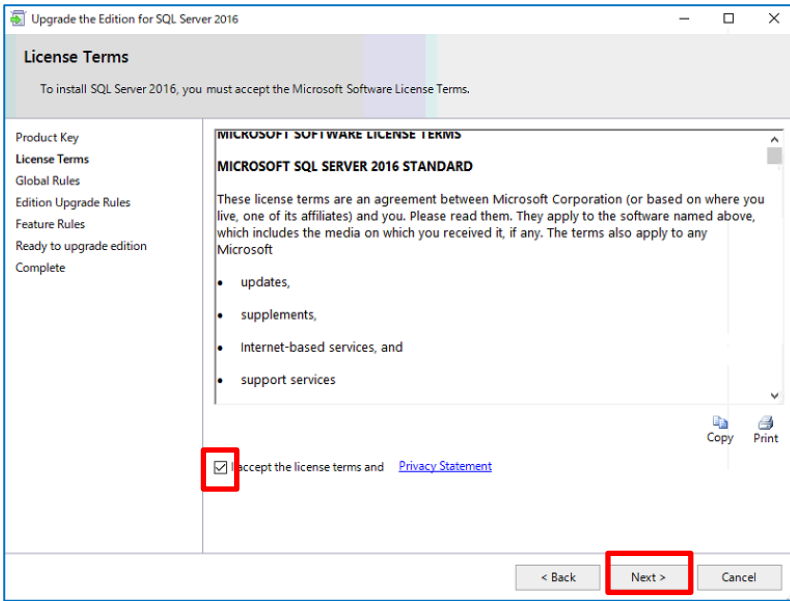
STEP3

Confirm product key is shown and click [Next].



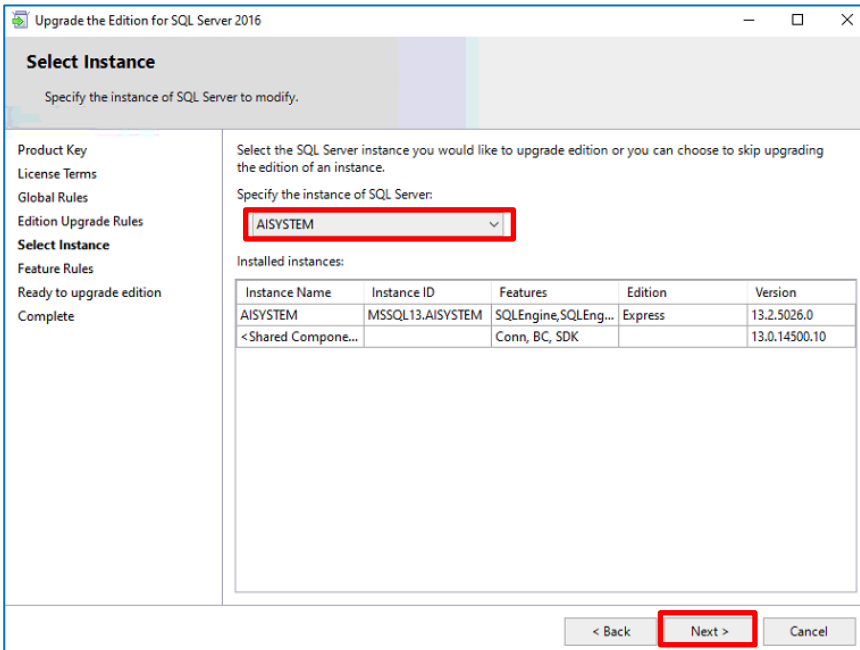
STEP4

Check for license term and click [Next].



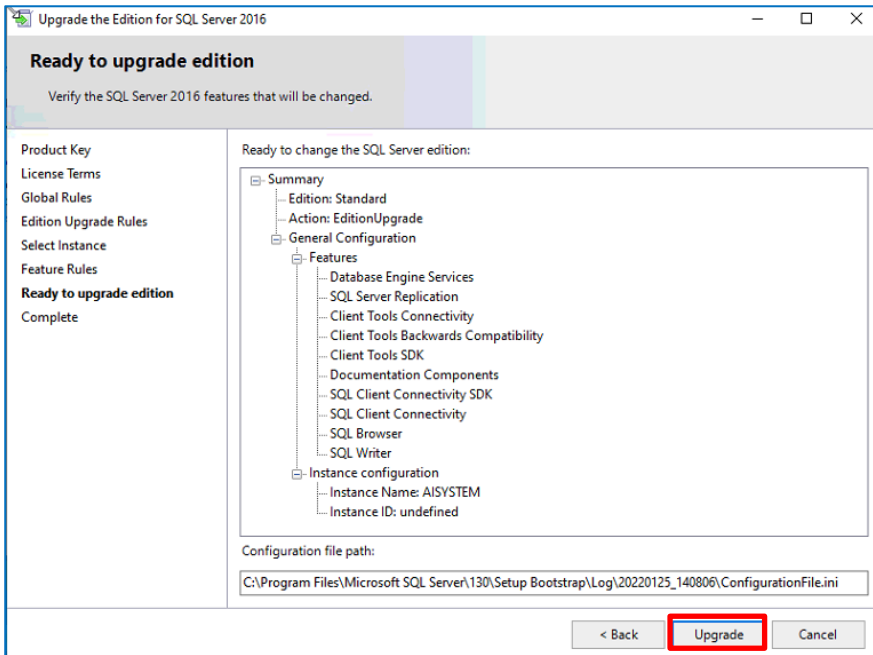
STEP5

Select [AISYSTEM] for instance and click [Next].



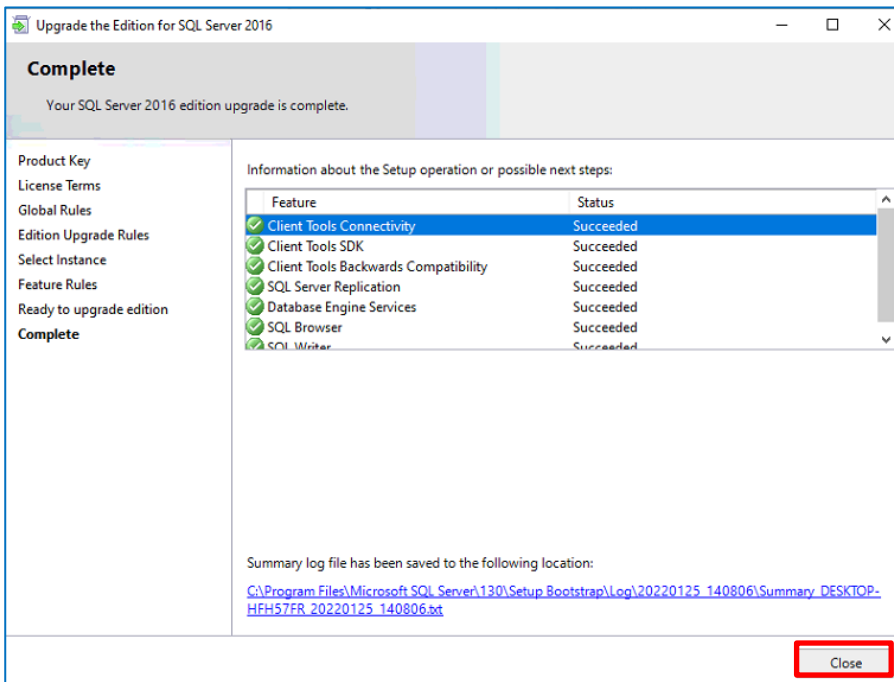
STEP6

Click [Upgrade]



STEP7

Click [Close]



6. Troubleshooting

6.1. Trouble shooting for Installation and Setup

Problem	Cause and solution	Refer
Failed to install SQL server	There may be some data that was used in the past. Uninstall program related to SQL server 2016 if VMS use another SQL server version, delete folder C:\Program Files\Microsoft SQL Server\MSSQL13.AISYSTEM and delete folder C:\MultiAI if you installed before.	5.4.2
	Check if the file path length of install package is less than 120 and launch installer as administrator.	4.3.1
	When you use Window 10, version 20H2 and the Microsoft Edge browser of any version from 84.0.522.52 through 86.0.622.55, execute "Windows update". Ref. https://docs.microsoft.com/en-us/troubleshoot/sql/install/error-set-up-update-instances	-
Cannot install VMS server software after i-PRO Active Guard server installation	When you install i-PRO Active Guard server to PC with VMS server, you need to install VMS server software in advance. If i-PRO Active Guard server is installed before that, uninstall i-PRO Active Guard server and SQL server and then, install VMS server.	4.3.1 5.4.2
Cannot access i-PRO Active Guard configuration.	Did you access <a href="http://<ip>:8092">http://<ip>:8092 ? "https://<ip>:8092" is correct. When you set another port number, another software use 8092 or you changed after installation, enter the port number.	4.3.2.1
	Supported browser is Microsoft Edge 85(or later), Chrome 83(or later) and Firefox 95(or later.)	3.2
	Please confirm related service is running on PC that i-PRO Active Guard server is installed. Start – Windows Administrative Tools – Services. "MultiAICameraService", "MultiAISupportProcessManagementService" and "SQL Server(AISYSTEM)"	5.6.1

	If stopped, right click and run	
Cannot log in to i-PRO Active Guard configuration	If you forget administrator account, reset account from PC that i-PRO Active Guard server is installed.	5.9
Cannot register VMS.	Check if IP address, port, protocol and credentials are correct.	4.3.2.2
	Check if web-SDK is enabled from Config tool on Security Center and	4.2.3
	Supported version of Security Center is SC 5.10.1.0 or later	2.2
Cannot register cameras	Check if IP address, port, protocol and credentials are correct.	-
	Check if extension software is installed to camera in advance.	4.1
	Check if cameras are registered to Security Center in advance.	4.2.1
	Check if "Digest" is used for authentication on camera side. ([Settings] - [User mng.] - [User auth.])	-
Face, People or Vehicle images cannot be searched from Plug-in (camera is not shown for camera list).	Camera registration to i-PRO Active Guard server should be done after registering camera to Security Center. When you re-register the camera to Security Center after registration to i-PRO Active Guard server, you need to also re-register the camera to i-PRO Active Guard server (delete and then register again.)	5.2.1 5.1.1
Face, People or Vehicle images cannot be searched from Plug-in (the number of search result is 0).	Receiving status from each cameras can be confirmed from i-PRO Active Guard configuration. Check network connection between camera and i-PRO Active Guard server, last received time, last diagnosis time. If the result is not expected, check if schedule setting on camera side for extension software is on.	4.3.7.1
	Check process status of i-PRO Active Guard server. If some process is stopped, restart the process.	4.3.7.2
	Check if schedule setting on camera side for extension software is on.	-
	Configuration issues in a multiple network environment	-

	Check if the camera is connected to a network that is not local to the server.	
	Firewall configuration issues. Check if i-PRO Active Guard server's program are listed on "Allowed apps and features" for firewall settings.	
Cannot connect from Plug-in to i-PRO Active Guard server.	Check if IP address, port, protocol and credentials are correct. Port and credentials can be changed from i-PRO Active Guard configuration.	4.3.5.2 4.4.2
Playback time is incorrect.	Check if PC time of i-PRO Active Guard server and VMS server are synchronized when i-PRO Active Guard server is installed to dedicated server.	
Registered face detection or registered people detection cannot be shown	Check if custom event and actions (e.g. Trigger alarm) are configured.	4.5
	Check if i-PRO Active Guard server detect alarm from diagnosis on i-PRO Active Guard configuration. If alarm exists, check the process status of i-PRO Active Guard server.	4.3.8.3
System alarm cannot be shown	Check if custom event and actions (e.g. Trigger alarm) are configured.	4.5

6.2. Trouble shooting after starting operation

When trouble occurs after starting operation, you can confirm error code on i-PRO Active Guard configuration (Refer to 4.3.7.4)

Problem	Error code	Cause and solution
Server process is stopped on i-PRO Active Guard configuration	514 - 517 1025 – 1028 4097 – 4100 4354,4357, 4610,4611	Services related to i-PRO Active Guard server does not exist. Please install i-PRO Active Guard server again Process related to i-PRO Active Guard server failed to start. Restart i-PRO Active Guard server manually (Refer to 4.3.8.2). When process stops again, download logs (Refer to 4.3.8.5) and contact the system administrator.
Camera disconnect	4355,4356,4358	Check network connection between camera and i-PRO Active Guard server. Check camera works (recording to VMS and live monitoring) If problem continues after restart camera and i-PRO Active Guard server manually (Refer to 4.3.8.2), download logs (Refer to 4.3.8.5) and contact the system administrator.
Face, People or Vehicle Images cannot be searched from Plug-in (the number of search result is 0).	66052,66053	Receiving status from each cameras can be confirmed from i-PRO Active Guard configuration. Check network connection between camera and i-PRO Active Guard server, last received time, last diagnosis time. If the result is not expected, check if schedule setting on camera side for extension software is on.
False detection (Not face, people or vehicle is searched)	-	To avoid false detection, configure mask area using iCT (Refer to 4.1).
High CPU usage, memory usage or disk access	65793,65794 65796,65797	Check CPU or memory status (Refer to 4.3.8.2) and confirm whether the usage by i-PRO Active Guard server software is high.

	<p>If the usage of i-PRO Active Guard server is high, to reduce load, configure mask area on camera side using iCT (Refer to 4.1) or “Max frequency of receiving object data (per sec)” (Refer to 4.3.5.4)</p> <p>If the usage of i-PRO Active Guard server is low and those of whole PC is high, check the influence of other software. When i-PRO Active Guard server is installed with VMS software, check the VMS software status.</p>
<p>Reach the max disk space of image (delete old images)</p>	<p>65795</p> <p>Old images has been deleted by exceeding the settings for “Max usage of image storage drive”.</p> <p>If you need to store data for “Retention period”, configure mask area on camera side using iCT (Refer to 4.1) to reduce the number of detection.</p>

7. Appendices

7.1. Secure system guideline

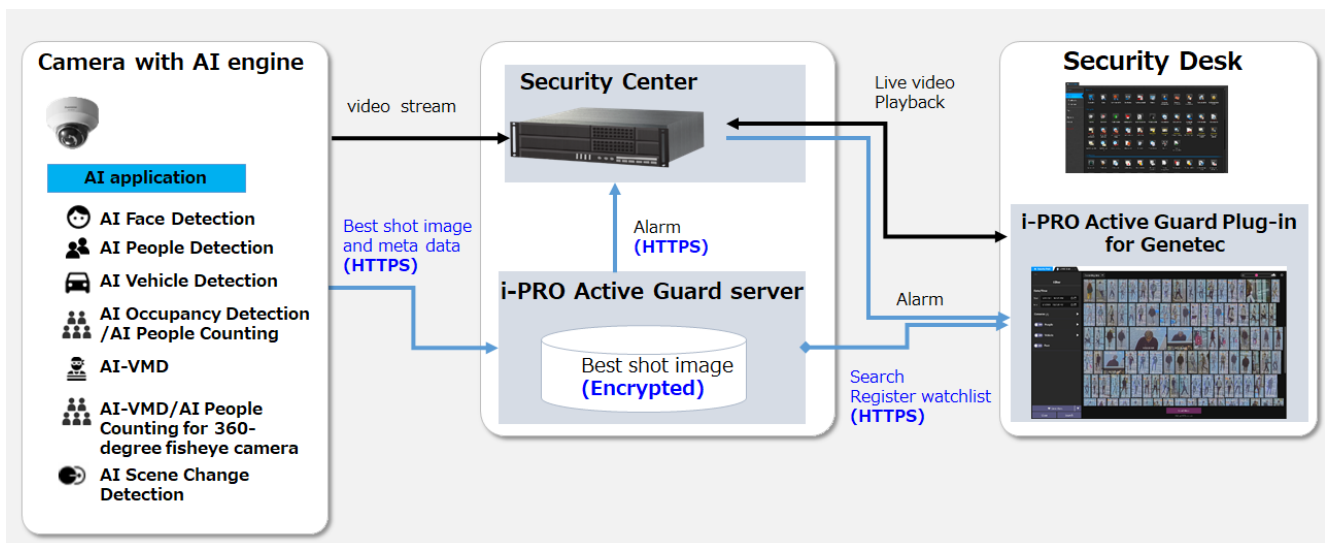
To ensure encrypted communications within critical environments, the secure system has been created as an additional security layer for the application. This document describes how to enable and configure secure system.

The communication between the cameras and i-PRO Active Guard server can be encrypted over HTTPS protocol.

The communication between the Security Center and i-PRO Active Guard server can be encrypted over HTTPS protocol.

The communication between i-PRO Active Guard server and Plug-in can be encrypted over HTTPS protocol.

Recorded Best shot images on i-PRO Active Guard server can be encrypted. Data encryption can be configured only when you install i-PRO Active Guard server.



7.1.1. HTTPS between camera and i-PRO Active Guard server

STEP1

Open the camera's web browser (*see instructions for each made and model*).

[Setup] – [Network] – [Advanced] – [HTTPS], select [HTTPS] from the Connections list box.

STEP2

When you register camera to i-PRO Active Guard server, select HTTPS (Refer to 4.3.2.3).

7.1.2. HTTPS between i-PRO Active Guard server and Plug-in

STEP1

Configure HTTPS for [Client plugin connection] on i-PRO Active Guard configuration (Refer to 4.3.5.2) and Restart process.

STEP2

Configure HTTPS connection on Plug-in's setting (Refer to 4.4.2)

7.1.3. HTTPS between VMS and i-PRO Active Guard server

STEP1

Select "use SSL connection" on Config tool (Refer to 4.2.3)

STEP2

When you register VMS to i-PRO Active Guard server, select HTTPS (Refer to 4.3.2.2).

7.1.4. Encryption of Best shot images

Encryption on/off can be configured only when installing i-PRO Active Guard server (Refer to 4.3.1).

When data is encrypted, image can be seen from Plug-in software. Other software cannot open the file.

7.2. Open source software

This product uses open source software.

For details concerning licensing, read license.txt included in install package.

7.3. How to use 3rd party extension software

3rd party camera extension software developed for i-PRO camera can be used in the i-PRO Active Guard system. Not all 3rd party extension software cannot be used, software that implements specific integration can be used. You can check the extension software that can be connected to i-PRO Active Guard from [application list](#) when released.

This document does not include install or configuration for 3rd party extension software itself and includes other procedure after them.

7.3.1. Required software version

i-PRO Active Guard server: v1.6.1 or later.

7.3.2. i-PRO Active Guard server configuration

This section describes the steps required to register camera with 3rd party extension software to i-PRO Active Guard server and receive event data.

STEP1

Edit configuration file to register the extension software.

Open the file "C:\MultiAI\Backup\3rdpartyApp.config" in the PC that i-PRO Active Guard server software is installed.

Input the extension software name, event name and custom event id, and also enable the line by removing ";" at the beginning of the line.

Ex.

```
application_name_1 = "SampleApplication"
```

```
event_name_1 = "SampleDetection"
```

```
genetec_custom_event_id_1 = 12000
```

Save and close the file after editing.

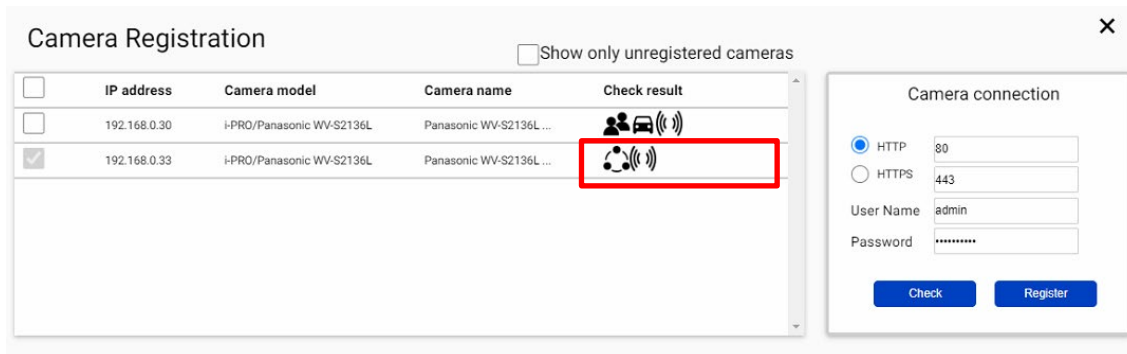
Note)


Up to 10 extension software and 10 events can be registered in a system.

The extension software name and event name of the extension software will be shown on [application list](#) when released. It will not work if any other name is configured.

STEP2

Register camera to i-PRO Active Guard server (Refer to 4.3.2.3).

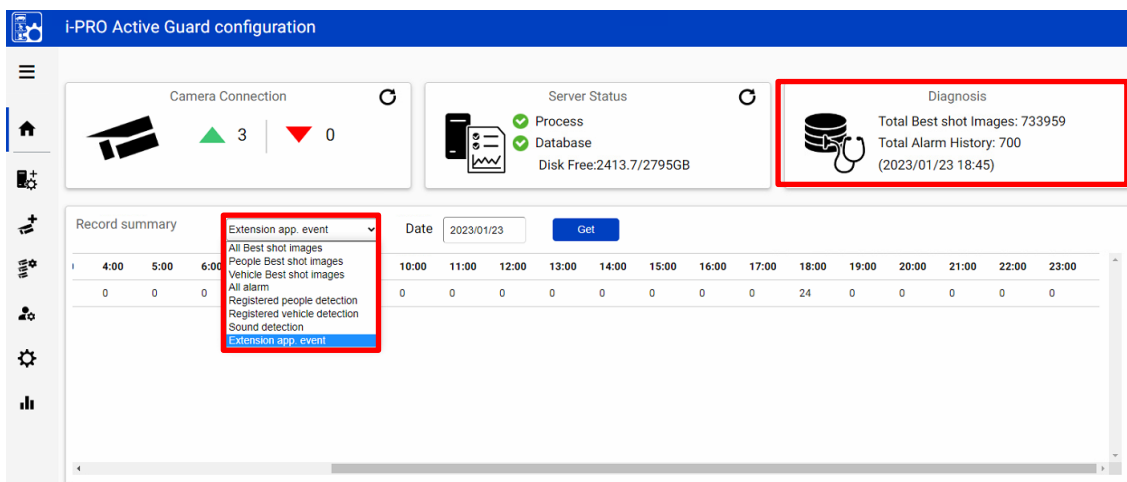


When the 3rd party extension software is installed in the selected camera, icon  will be shown in the [Check result]. If not shown, please check if configuration file is edited correctly.

STEP3

Check if an event has occurred (Optional).

[Extension app. event] can be selected to confirm the number of detection. (Refer to 4.3.8.3)

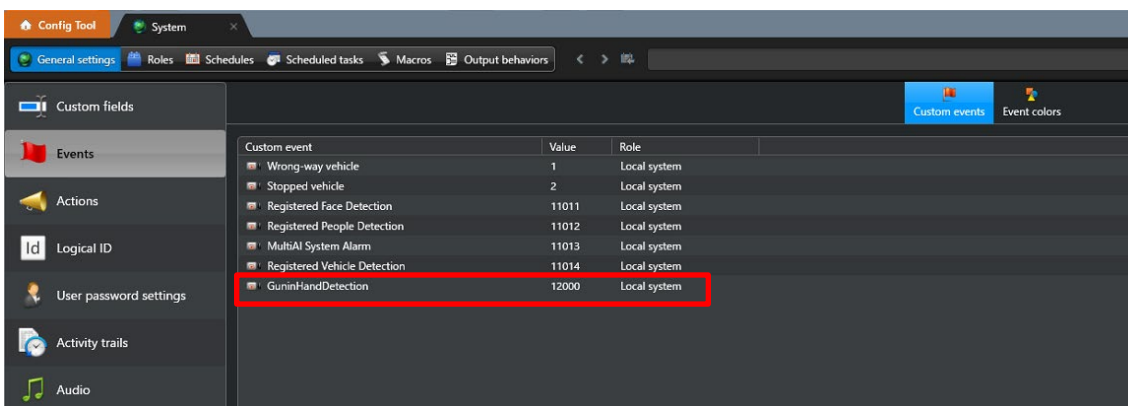
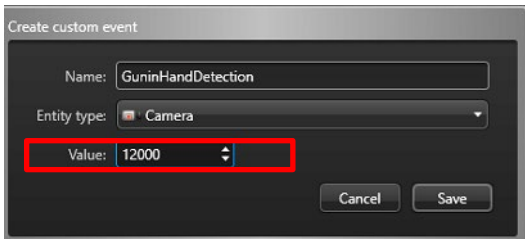


* It takes about 15 min for an event to appear on the screen after it has occurred.

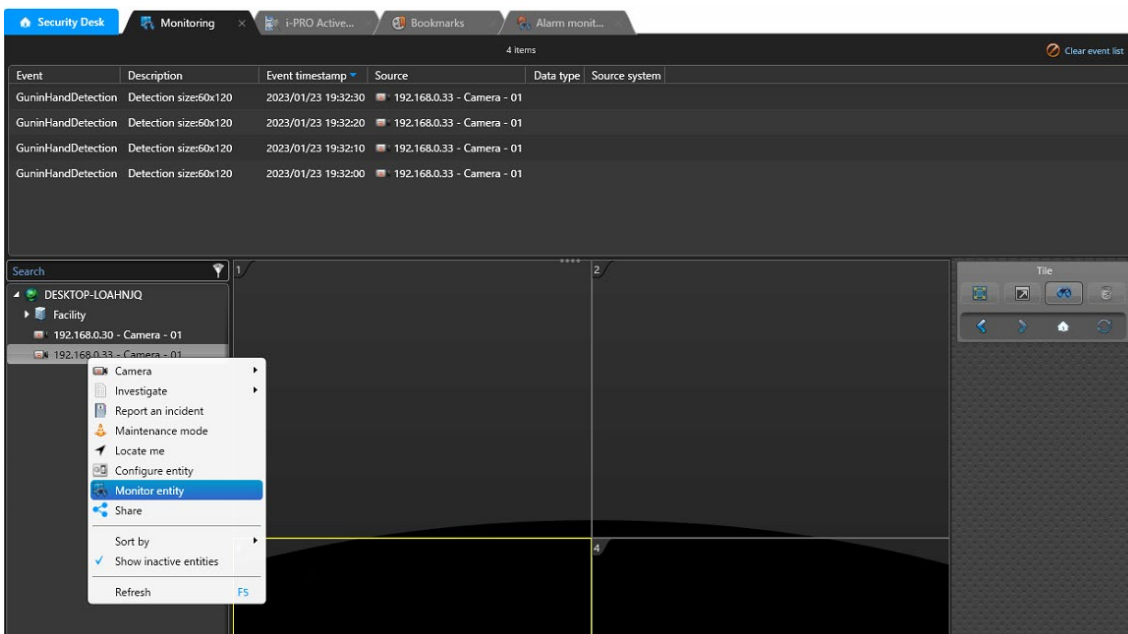
7.3.3. Configure custom event (mandatory)

Similar to the procedure described in 4.5, 3rd party extension software event can be used as custom event.

Add extension software event with the value. The value should be matched with configured value in “C:\MultiAI\Backup\3rdpartyApp.config” on i-PRO Active Guard server side.



By enabling [Monitoring] – [Monitor entity], extension software event will be shown.



Configure Actions (Optional).

