

Network PTZ Dome Camera Firmware

Version: V5.5.0

Release Note

Firmware Basic Information	Firmware Version:	V5.5.0 build 170907
	SDK Version:	V5.3.1.15_build20170714
	Play Library (PlayCtrl.dll)	v7.3.3.61 build170510
	Encapsulation Library (SystemTransform.dll)	V2.5.2.5
	Voice intercom library	1.4.0.3
	iVMS-4200	2.5.13.2build20170907
	IE Client version	plugin: V3.0.6.26 web:V4.0.1build170905
	SADP	v3.0.0.11 build20170710

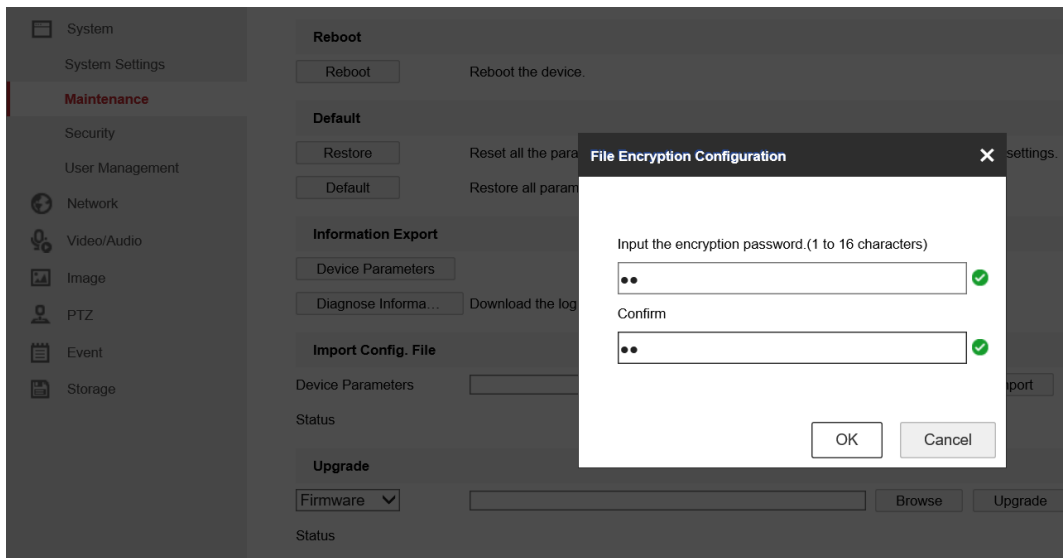
1. *Compatibility Update*

- 1) **HIKCGI version: V2.0;**
- 2) **ONVIF version: V1612;**
- 3) **ISAPI version: 2.4;**
- 4) **Hik-Connect: V1.7**
- 5) **Avigilon Control Center: V6.2.2.6;**
- 6) **Excaqvision: V8.4.2.111578**
- 7) **Milestone:**
 - 1) Milestone Enterprise 8.1a(2016 R2 10.1a), Milesstone drive version (Device Pack 9.1)
 - 2) Milestone Corporate version(2017 R1 11.2a), Milestone drive version (Driver 9.1)

2. Security modifications

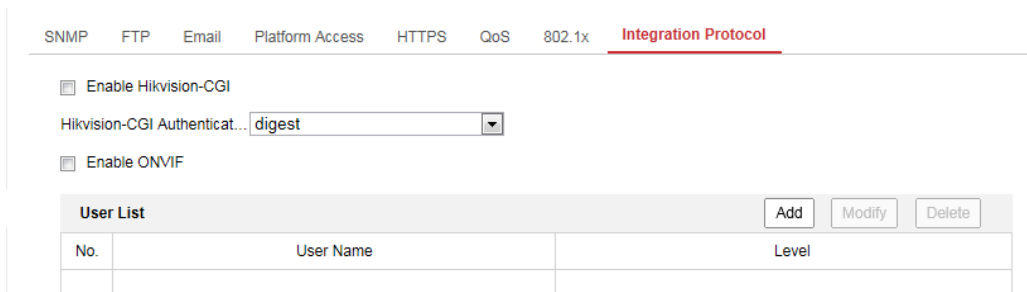
2.1 Device Parameters Information Import and Export

The password is needed when import or export Device Parameters from Web or 4200 client. The length of password is from 1~16 bits, numbers or letters are permitted.



2.2 Modify ONVIF and CGI

- 1) ONVIF is disabled by default at vision 5.5.0, even update device from old version that ONVIF is enabled. There has ONVIF switch at Web interface, 4200 Client.



- 2) User management system in ONVIF is independent from device. There have three user types, including Media user, Operator and Administrator, Up to 32 users. The password level of ONVIF user is consistent with device user.

Add user
✕

User Name

Password

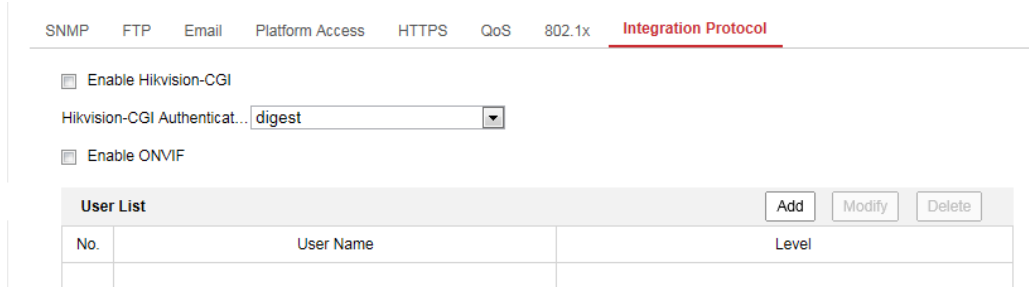
Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

Confirm

Level

Media user
 Operator
 Administrator

- 3) ONVIF version is updated to V1612, support Media 2.0(only H265 Video Encoding) and Two-way Audio at TCP/UDP/HTTP protocol.
- 4) CGI is disabled by default at vision 5.5.0, even update device from old version that CGI is enabled. There has CGI switch at Web interface, 4200 Client and only baseline device support it.

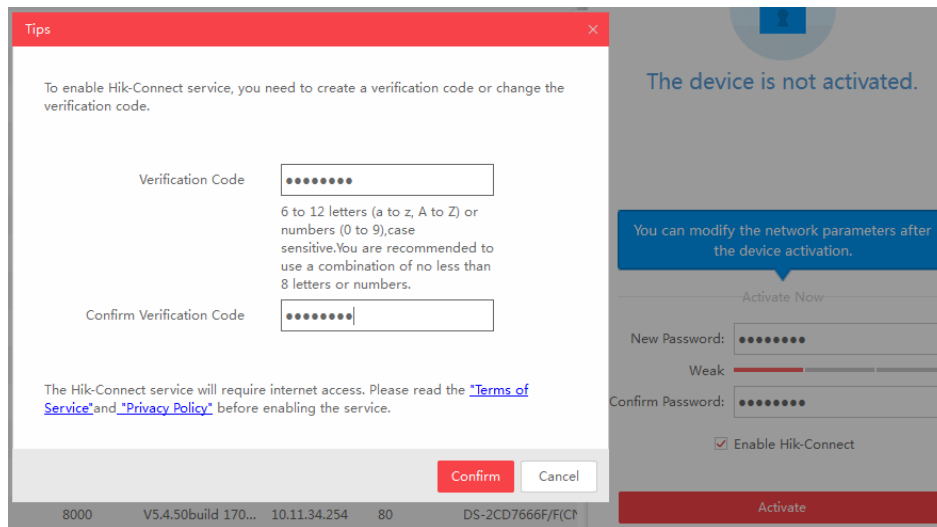


- 5) If device was restored, ONVIF's enable status won't be restored, but CGI's enable status, ONVIF/CGI/RTSP/web authentication, ONVIF's password will be restored, these information was included in Device Parameters can be imported or exported except password.

2.3 Hik-Connect

- 1) SADP, 4200, 5200, 4500 and HIK-Connect client support to open HIK-Connect function when active new device, you can also create verification

code at the same time.



2) You can also open HIK-Connect by web interface or client, there will be a prompt information to let you create Verification code, and the verification code is visible. If the factory equipment already have the verification code, the device will remind you to change it.

Enable

Platform Access Mode: Hik-Connect

Server IP: dev.hik-connect.com Custom

Register Status: Offline

Verification Code: abcd1234

6 to 12 letters (a to z, A to Z) or numbers (0 to 9), case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.

3) UPNP is disabled by default, if the device was registered to HIK-Connect, UPNP will be opened. UPNP will be close if the device was unbundled from HIK-Connect platform.

2.4 WEB and RTSP authentication

- 1) WEB authentication: digest, digest/basic, adding “web authentication” at Security → Authentication” interface, the default is Digest.
- 2) RTSP authentication: delete previous URL authentication, which is modified digest and digest/basic, and the default is digest.

3. Newly add

3.1 Alarm newly add

- 1) Preset duration time of Alarm Input can be set up, time range is from 0 to 20 seconds and the default value is 0.

Motion Detection Video Tampering **Alarm Input** Alarm Output Exception

Alarm Input No. IP Address
Alarm Type Alarm Name (cannot copy)

Enable Alarm Input Handling

Arming Schedule **Linkage Method**

<input type="checkbox"/> Normal Linkage	<input type="checkbox"/> Trigger Alarm Output	<input type="checkbox"/> Trigger Recording	PTZ Linking <input type="text" value="A1"/>
<input type="checkbox"/> Send Email <input type="checkbox"/> Notify Surveillance Center <input type="checkbox"/> Upload to FTP/Memory Card/...	<input type="checkbox"/> A->1	<input type="checkbox"/> A1	<input checked="" type="checkbox"/> Preset No. <input type="text" value="1"/> Duration <input type="text" value="0"/> s <input type="checkbox"/> Patrol No. <input type="text" value="1"/> <input type="checkbox"/> Pattern <input type="text" value="1"/>

Note: Only device reaches the preset point, duration time can be started. Inside the duration time, device won't deal with other alarm linkage unless the duration time is over. And the device just process latest alarm linkage.

- 2) PTZ Camera is added "Motion Detection in PTZ Control" function. After enable "Motion Detection in PTZ Control", Alarm can be triggered even the PTZ Camera is on the move.

Motion Detection Video Tampering Alarm Input Alarm Output Exception

Enable Motion Detection
 Enable **Motion Detection in PTZ Control**
 Enable Dynamic Analysis for Motion

Area Settings Arming Schedule Linkage Method

3.2 Rapid Focus supports 4 Scenes.

Rapid Focus supports 4 Scenes, the Rate and Calibration Point Amount are configurable. Only DF2307IX, DF3607IX and DF3609IX PTZ Cameras support Rapid Focus.

Finish calibration before you enable eagle vision focus. Disabling eagle vision focus before you delete all scenes.

				<input type="button" value="Add"/>	<input type="button" value="Delete"/>
No.	Scene Name	Rate	Calibration Point Amount		
1	Scene1	21	3		
2	Scene2	21	2		
3	Scene3	21	5		
4	Scene4	21	4		

3.3 Security Question

- 1) Support Security question in order to help customers get back passwords that might have forgotten.
- 2) In order to ensure safety, reset password operation must be in local area network.
- 3) User can create 3 common questions, there has 10 optional questions.

User Management Online Users

User List			<input type="button" value="Security Question"/>	<input type="button" value="Add"/>	<input type="button" value="Modify"/>	<input type="button" value="Delete"/>
No.	User Name	Level				
1	admin	Administrator				

Security Question Configuration

Security Question Configuration

Security Question1

Answer

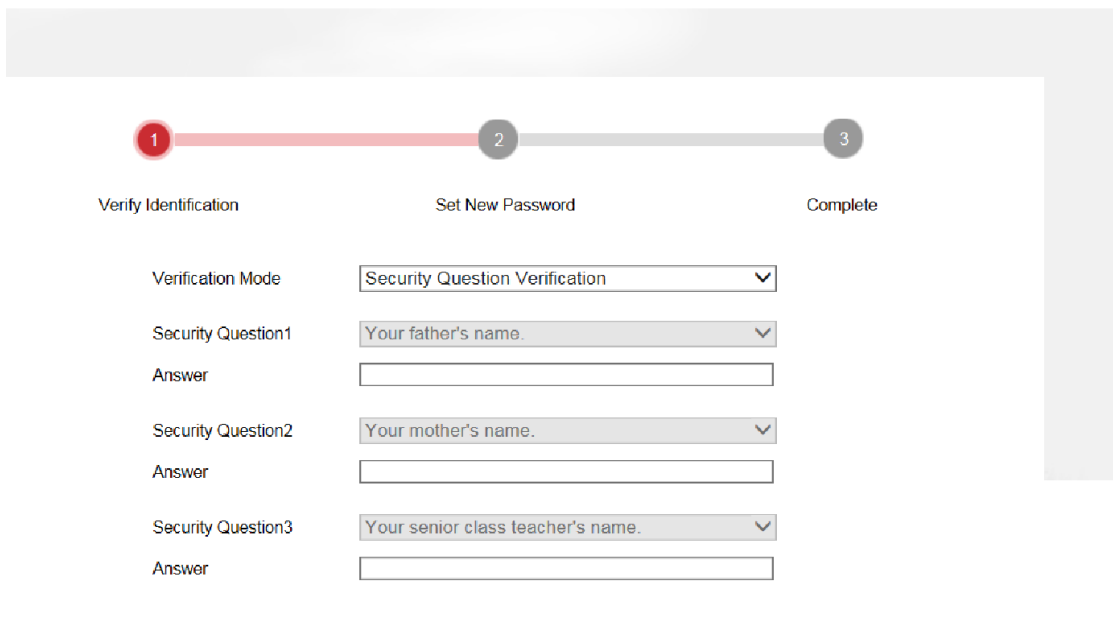
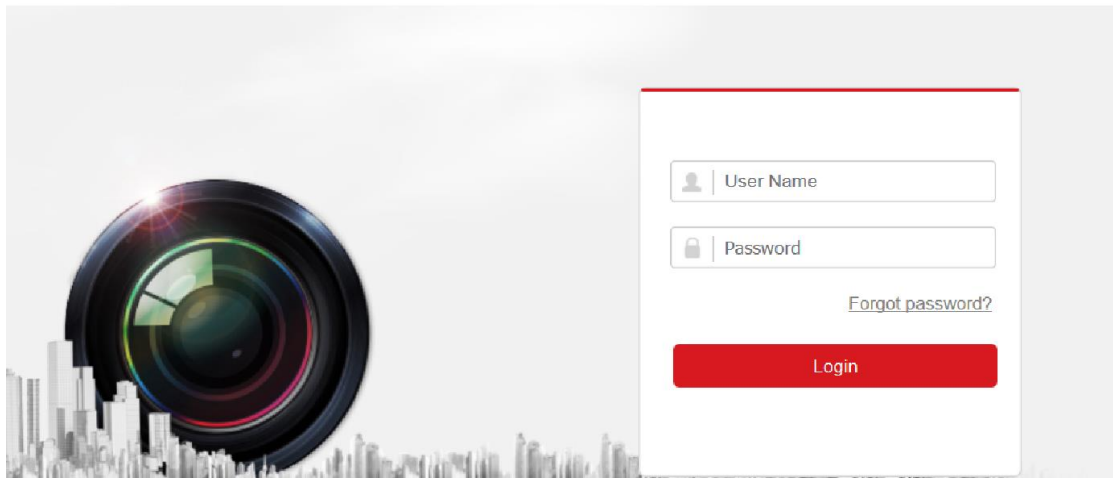
Security Question2

Answer

Security Question3

Answer

- 4) At the Login interface, you can click “Forgot password” to input the answers to the questions that you set.



- 5) SADP client support set **Security Question** when active new device.

3.4 HTTP protocol event alarm connection

- 1) Support unload arming (alertStream mechanism).
- 2) Support unload subscription arming (subscribeEvent mechanism).
- 3) Support unload listening (httpHosts mechanism).

Target: All event alarm is uploaded to platform via http, in order to integrate the third platform.

3.5 Newly add number 46 preset

- 1) number 46 preset is used for *Day/Night Auto Mode*.

3.6 800MP devices support 4096*2160 resolution.

3.7 Smart Event number is added from 4 to 6, there will all have Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Unattended Baggage Detection, Object Removal Detection.

4. Optimization

4.1 Administrator delete or add new user needs to input Admin Password

4.2 H265 Encoding supports SVC configuration

4.3 Modify HTTPS

- 1) Delete https certification and reboot device, which won't create certification automatically.
- 2) Secret key length of HTTPS certification is change from 1024 to 2048.

4.4 Optimize supplement light effect of PTZ Camera

4.5 Optimize infrared lamp function

4.6 Optimize EIS function

4.7 Optimize WDR function

4.8 The memory size of SD card mostly supports 256GB

5. *Delete*

- 1) Delete Genetec and PSIA function.
- 2) Delete Capture Mode, Capture Mode will not be configurable.

Customer Impact and Recommended Action

This update refers to function/compatibility improvement and will take effect automatically after the Date of Change. We are very sorry for any inconvenience of use-habit changes caused by this action.

For any questions and request for this firmware, please contact our local technical support team.

Remarks:

- Hikvision reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The Hikvision firmware may contain defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.
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Hikvision Digital Technology CO., Ltd.
No. 555 Qianmo Road, Binjiang District, Hangzhou 310051, China
Tel: +86-571-8807-5998
FAX: +86-571-8993-5635
Email: overseabusiness@hikvision.com

6. Supported Model List

Supported PTZ Dome Camera Model List (DFxxxxx)		
DS-2DF8250I5X-AEL	DS-2DF8250I5X-AELW	DS-2DF8436IX-AEL
DS-2DF8425IX-AELW	DS-2DF8425IX-AEL	DS-2DF8436IX-AELW
DS-2DF8436I5X-AELW	DS-2DF8236IX-AELW	DS-2DF8236I5X-AELW
DS-2DF8236IX-AEL	DS-2DF8225IX-AEL	DS-2DF8225IX-AELW
DS-2DF8836IX-AEL	DS-2DF8836IX-AELW	DS-2DF8836I5X-AELW
DS-2DF8825IX-AELW	DS-2DF8825IX-AEL	DS-2DF7225IX-AEL
DS-2DF7232IX-AELW	DS-2DF7232IX-AEL	DS-2DF7225IX-AELW
DS-2DF6225X-AEL	DS-2DF5225X-AEL	DS-2DF5232X-AEL
DS-2DF5225X-AE3	DS-2DF5232X-AE3	

Supported Positioning System Model List (DYxxxxx)		
DS-2DY9836X-A	DS-2DY9250IAX-A	DS-2DY9250IX-A
DS-2DY9250X-A	DS-2DY9236IAX-A	DS-2DY9236IX-A
DS-2DY9236X-A		