Network PTZ Dome Camera Firmware
Version: V5.5.0
Release Note

| Firmware Basic Information	Firmware Version:	V5.5.0
	SDK Version:	V5.2.7.45_build20170612
	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	2.5.13.2build20170709
	IE Client version	plugin: V3.0.6.26 web:V4.0.1build170711
	SADP	v3.0.0.11 build20170710

1. Compatibility Update

- **HIKCGI version: V2.0;**

- **ONVIF version: V1612;**

- **ISAPI version: 2.4;**

- **Milestone:**
  1) Milestone Enterprise 8.1a(2016 R2 10.2a), Milesstone drive version (Device Pack 9.1);
  2) Milestone Corporate version(2017 R1 11.1), Milestone drive version (Driver 9.1);

- **Avigilon Control Center: V5.10.12.2;**

- **Excaqvision: V8.4.2.111542**

2. Security modifications (compared to 5.4.8)

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.
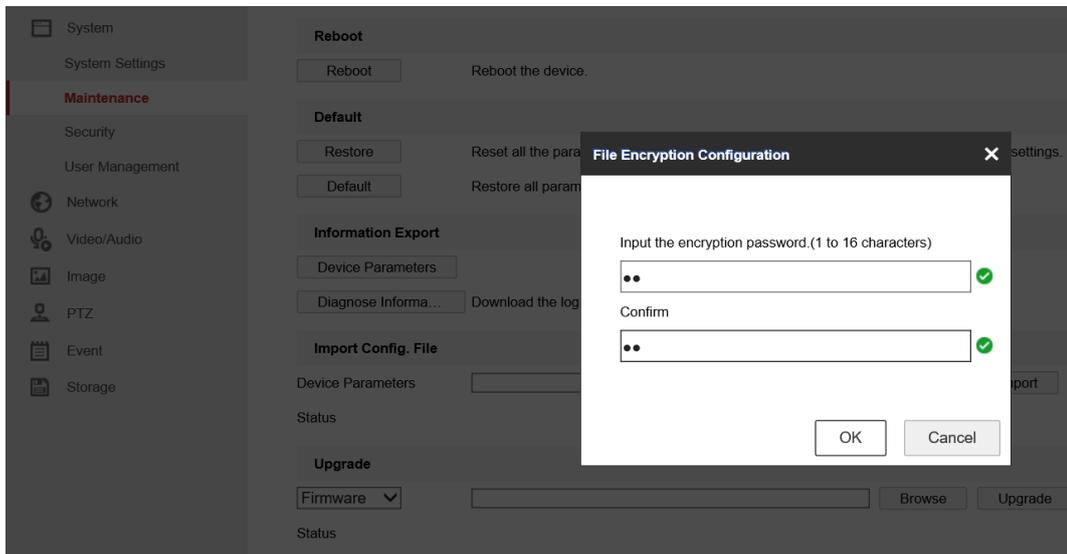
2.2 Modify ONVIF and CGI

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.
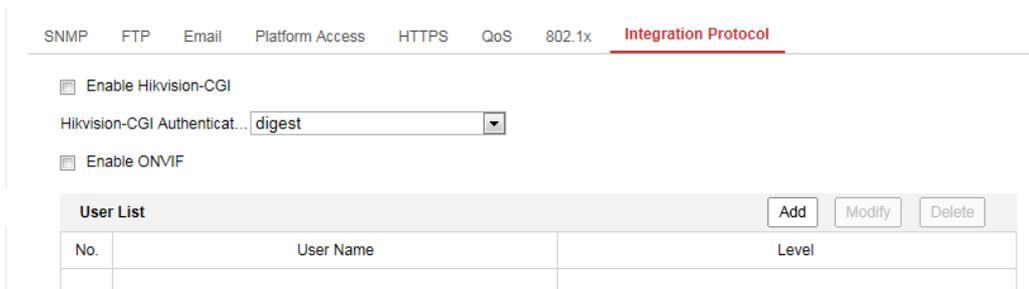
2) User management system in ONVIF is independent from device. There have three user types, including Media user, Operator and Administrator, Up to 32 users. The password level of ONVIF user is consistent with device user.
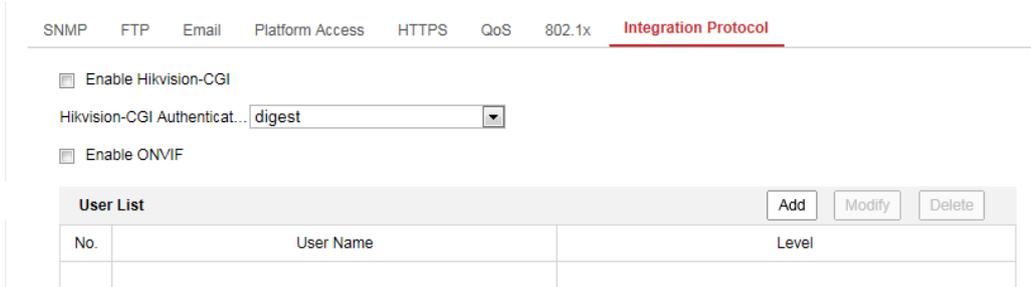
3) ONVIF version is updated to V1612, support Media 2.0(only H265 Video

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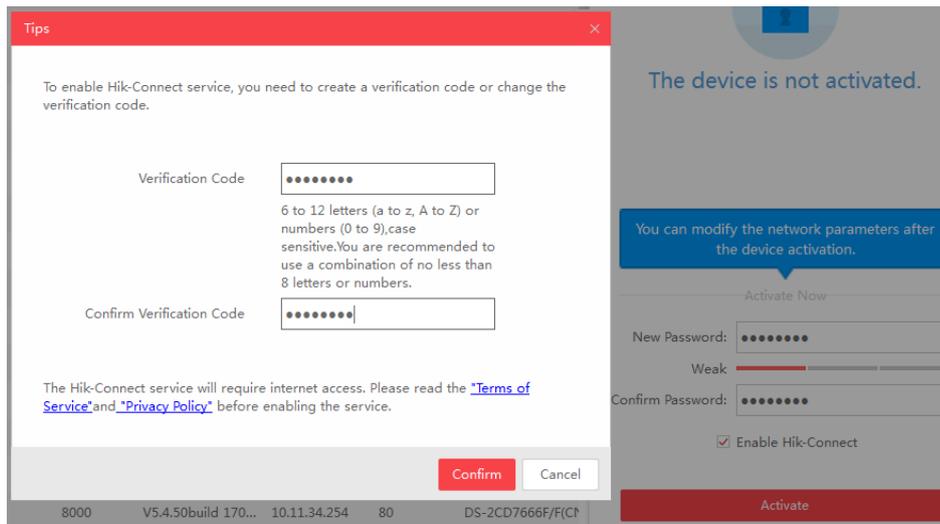
2) You can also open HIK-Connect by web interface or client, there will be a prompt information to let you create Verification code, and the verification code is visible. If the factory equipment already have the verification code, the device will reminder you to change it.

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.

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.

3.2 Eagle Vision Focus supports 4 Scenes.

Compared to version 5.4.8, Eagle Vision Focus has up to 4 Scenes. Only 8

inch 2MP Ultra-low Light PTZ Cameras that have 23X and 37X zoom support Eagle Vision Focus.

Note: the old version PTZ Cameras mentioned above may not support Eagle Vision Focus.

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

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 Diagnose Information Export

1) All devices of Version 5.5.0 support export **Diagnose Information**, the filename format is like "Serial No. current time.txt".

2) The exported information includes log, system information and hardware information.

| Upgrade & Maintenance | Log | System Service |

Reboot

Reboot   Reboot the device.

Default

Restore   Reset all the parameters, except the IP parameters and user information, to the

Default   Restore all parameters to default settings.

Information Export

Device Parameters

Diagnose Informa…   Download the log, system information and hardware information.

Local
System
   System Settings
   Maintenance
   Security
   User Management
Network
Video/Audio
Image
PTZ

3.4 Local password reset

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.

4) At the Login interface, you can click "Forgot password" to input the answers to the questions that you set.
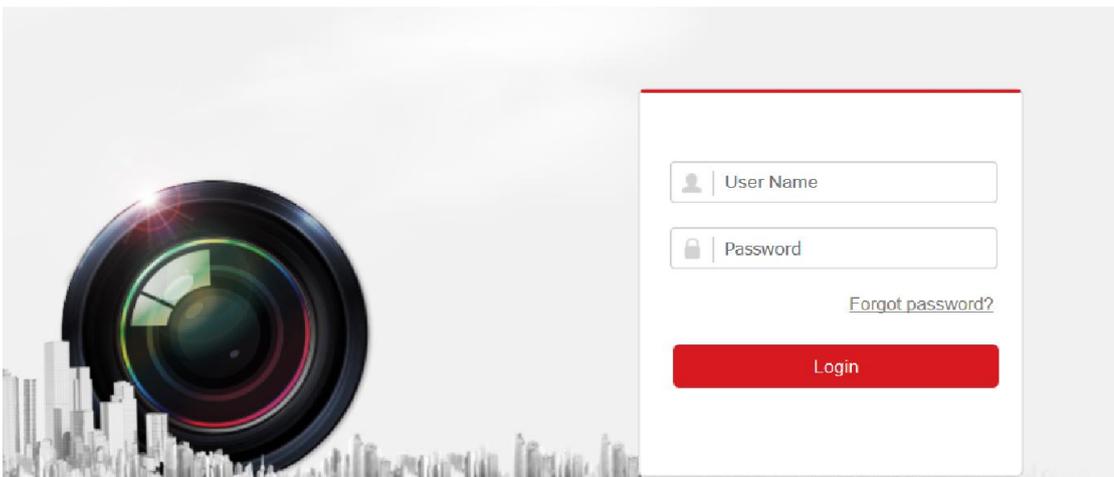
5) SADP client support set *Security Question* when active new device。

3.5 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.

3.6 Newly add number 46 preset

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

4. Optimization

4.1 Defog&&White-light

1) Optimize optical defog mode: When non-white light device enable optical defog mode, you can switch Day/Night/Auto/Scheduled-Switch mode and open supplement light, but the image is in black-and-white status

4.2 Change the password needs to enter the original password

1) Administrator delete or add new user needs to input Admin Password.

4.3 H265 Encoding support SVC configuration.

4.4 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.

4.5 Optimize supplement light effect of PTZ Camera.

1) Optimize IR light ICR back and forth oscillation issue.

4.6 Optimize infrared lamp effect.

4.7 The memory size of SD card mostly supports 256GB.

4.8 All DS-2DFxxxxW series, DS-2DExxxxW series, DS-2DYxxxxW series, DS-2ZCNxxxW series devices support SVC function.

4.9 Optimize EIS of DS-2DFxxxxW series and DS-2DExxxxW series devices: image won't have sudden change after enable EIS.

4.10 The Park Time of ZOOM Camera keeps consistent with PTZ Camera, which is changed from 15 second to 5 second.

5. Delete

Delete Genetec and PSIA supports

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.

- Hikvision is not liable for any typing or printing errors.

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

Supported PTZ Dome Camera Model List (DFxxxxx)		
DS-2DF8236I-AELW	DS-2DF7274-D	DS-2DF5284-AE3
DS-2DF8236I-AEL	DS-2DF7274-AW	DS-2DF5284-A3F
DS-2DF8223IN-AEL	DS-2DF7274-AF	DS-2DF5284-A3
DS-2DF8223I-AELW	DS-2DF7274-AELW	DS-2DF5284-A
DS-2DF8223I-AEL	DS-2DF7274-AEL	DS-2DF5276-D3
DS-2DF7286-D	DS-2DF7274-A	DS-2DF5276-D
DS-2DF7286-AW	DS-2DF7230I2N-A	DS-2DF5276-AF
DS-2DF7286-AF	DS-2DF6236-AEL	DS-2DF5276-AEL
DS-2DF7286-AEL	DS-2DF6223-AEL	DS-2DF5276-AE3
DS-2DF7286-A	DS-2DF5286-D3	DS-2DF5276-A3F
DS-2DF7284-D	DS-2DF5286-D	DS-2DF5276-A3
DS-2DF7284-AW	DS-2DF5286-AF	DS-2DF5276-A
DS-2DF7284-AF	DS-2DF5286-AEL	DS-2DF5274-D3
DS-2DF7284-AELW	DS-2DF5286-AE3	DS-2DF5274-D
DS-2DF7284-AEL	DS-2DF5286-A3F	DS-2DF5274-AF
DS-2DF7284-A	DS-2DF5286-A3	DS-2DF5274-AEL
DS-2DF7276-D	DS-2DF5286-A	DS-2DF5274-AE3
DS-2DF7276-AW	DS-2DF5284-D3	DS-2DF5274-A3F
DS-2DF7276-AF	DS-2DF5284-D	DS-2DF5274-A3
DS-2DF7276-AEL	DS-2DF5284-AF	DS-2DF5274-A
DS-2DF7276-A	DS-2DF5284-AEL	DS-2DT6223-AELY

Supported Positioning System Model List (DYxxxxx)		
DS-2DY9185-A	DS-2DY9187-AI8	DS-2DY9188-AI2
DS-2DY9185-AI2	DS-2DY9187-AIA	DS-2DY9188-AIA
DS-2DY9187-A	DS-2DY9188-A	

Supported PTZ Dome Camera Model List (DxxxxxW)

DS-2DF8236I5W-AELW	DS-2DE4220W-AE/AE3	DS-2DE5230W-AE/-AE3
DS-2DF6223-CX(W)	DS-2DE4320W-AE/AE3	DS-2DE5320W-AE/-AE3
DS-2DF6236-CX(W/316L)	DS-2DE4420IW-DE	DS-2DE5330W-AE/-AE3
DS-2DB4223I-CX(WE)	DS-2DE4A204IW-DE(2.8-12mm)	DS-2DE6220IW-AE
DS-2DB4223I-CX(WE/316L)	DS-2DE4A204IW-DE(8-32mm)	DS-2DE6420IW-A
DS-2DB4236I-CWX(WE/316L)	DS-2DE4A220IW-DE	DS-2DE7120IW-AE
DS-2DE2106IW-DE3	DS-2DE4A320IW-DE	DS-2DE7130IW-AE
DS-2DE2204IW-DE3	DS-2DE4A404IW-DE(2.8-12MM)	DS-2DE7220IW-AE
DS-2DE2402IW-DE3	DS-2DE4A404IW-DE(8-32MM)	DS-2DE7230IW-AE
DS-2DE3104W-DE	DS-2DE4A420IW-DE	DS-2DE7320IW-AE
DS-2DE3204W-DE	DS-2DE5120IW-AE	DS-2DE7330IW-AE
DS-2DE3304W-DE	DS-2DE5120W-AE/-AE3	DS-2DE7420IW-AE
DS-2DE4120IW-DE	DS-2DE5130W-AE/-AE3	DS-2DE7430IW-AE
DS-2DE4120W-AE	DS-2DE5220IW-AE	DS-2DE7520IW-AE
DS-2DE4120W-AE3	DS-2DE5220W-AE/-AE3	DS-2DE7530IW-AE
DS-2DE4220IW-DE		

Supported Positioning System Model List (DYxxxxxW)

DS-2DY7230IW-A	DS-2DY5223IW-DM	DS-2DY3220IW-DE
DS-2DY7230W-A	DS-2DY3204IW-DE(2.8-12mm)	DS-2DY3220IW-DE4
DS-2DY7236IW-A	DS-2DY3204IW-DE(8-32mm)	DS-2DY3320IW-DE
DS-2DY7236W-A	DS-2DY3204IW-DE4(2.8-12mm)	DS-2DY3320IW-DE4
DS-2DY5223IW-AE	DS-2DY3204IW-DE4(8-32mm)	

Supported Zoom Camera Model List (ZCxxxxx)

DS-2ZCN2006(C)	DS-2ZCN3008(C)	DS-2ZMN2309(C)
DS-2ZCN2007(C)	DS-2ZMN0407(C)	DS-2ZMN3006(C)
DS-2ZCN2008(C)	DS-2ZMN2006(C)	DS-2ZMN3007(C)
DS-2ZCN2307(C)	DS-2ZMN2007(C)	DS-2ZMN3008(C)

DS-2ZCN2309(C)	DS-2ZMN2008(C)	DS-2ZMN3207(C)
DS-2ZCN3006(C)	DS-2ZMN2307(C)	DS-2ZMN3607(C)
DS-2ZCN3007(C)		