DSS Professional V8.000.0000004.0

Release Notes

V1.0.0

Foreword

Disclaimer

- These release notes are for reference only. Slight differences might be found between the release notes and the product.
- Succeeding products and release notes are subject to change without notice.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Trademarks

Table of Contents

Release Notes

1.1 Overview

Item	Description
Product model	DSS Professional
Version	V8.000.0000004.0
Software package information	General_DSS-Professional_Win64_IS_V8.000.0000004.0.R.20211119.exe
OS requirement	CPU: Intel Xeon Silver 4114@ 2.2GHz 10 Core Processor Memory: 16 GB Network Card: 1 Gps Hard Disk Type: HDD 1 TB Free space: 500 GB or more
Release date	November, 2021

1.2 New Features

Feature	Description
User Management	● System user logs in to multiple clients at the same time. Supports disabling logging in to multiple clients at the same time for the system user. ● Supports video call when a user logs in to multiple clients at the same time.
Device management	● Supports adding encoding devices through IPV6. ● Supports adding devices via domain name. ➢ Device types: All devices (excluding LED and radar devices) can be added to the system via domain name. ➢ Add devices through ONVIF protocol via domain name. ● Supports visiting the web interface of devices added through P2P and auto registration. ● Add multi-channel devices and delete unnecessary channels. ● Automatically refresh the online and offline status of devices. ● Optimized process to add uninitialized devices. ● Import templates in batches and add the channel SN when importing P2P devices in batches. ● Add MPT and EEC devices, security screening machine, walk-through metal detector and alarm controller.

Feature	Description
Storage Management	● "Face/Alarm Pictures" and "License Plate Recognition Pictures" merge into "Images and Files". ● The main and sub serves can store videos, images and files and incidence files in hot standby.
Deployment Configuration	Independent database deployment. Users can deploy a MySQL database independently to store face snapshots, license plates, alarm events and video metadata records.
Authorization	Customizable license authorization on: ● The number of DSS Agile VDP users. ● The number of Bridges. ● The number of walk-through metal detectors. ● The number of security screening machines.
Recording Plan	● Configure center recording plans in batches. ● Configure recording retrieval plans. ➢ Configure video retrieval plans in batches and select the video stream of the recordings with the maximal retrieval cycle increased to 7 days. ➢ Configure file retrieval plans for MPT devices that can be executed only with WiFi connection..
Event	● Added PPE Detection and Soft Trigger. ● Configure alarm events linking to HTTP URL command. ● Quick door opening with improved alarm linkage to access control. ● Configure and view Alarm Protocol. ● Improved layout of Real-time Events with tiled display of key information. ● Download and store pictures of alarm events on the PC. ● Search for more than 16 resources in Event History.
Video Wall	Optimized linkage to video walls.
Maintenance Center	Upgrade the programs of Dahua IPCs and access control devices in batches.
Monitoring Center	● Monitor MPT in real-time. ● Goes to GIS map to get the real-time location of MPT devices in live view. ● The real-time video stream remains the same while switching between live view and playback. ● Add tag and channel name in the default name of downloaded videos. ● Seamless switches among live view streams. ● Voice talk with the channels of IVSS devices.
Intelligent Analysis	IVSS Heat Map Pass-through.
Access Management	● Optimized sending of Contacts and Private Password. ● Automatically extract the access control records and update attendance reports.
Download Center	Improved the default name of downloaded videos.
DeepXplore	Search for MPT enforcement records.

Feature	Description
Synthesis	Connect to a third-party system via Bridge and configure event protocol on the system for linkage.
Alarm controller	● Arm the device, sub-systems and partitions. ● Force arming if arming failed and displays the reasons for arming failure concerning the device, sub-systems and partitions. ● Arm Partition 1 and Partition 2 separately. ● Disarm the device and sub-systems. ● Displays status of sub-system group, partition group and protection zone group. ● Displays the arming status of sub-systems and protection zones in real time. ● Bypass, isolate and unbypass the protection zones.
Others	● Pull video streams from auto-registered devices. ● Automatically lock the client. ● Optimized the layout of the local configuration page of the client. ● Improved storage directory of local configuration files, logs and cache files of the client. ● Service Log Debug for easy troubleshooting. ● Update the system with fix pack.

1.3 New Feature Details

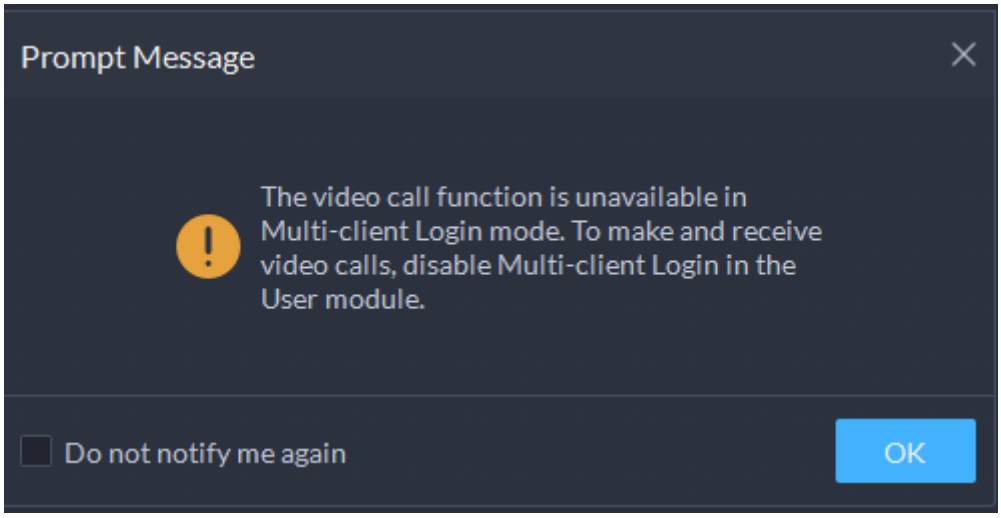
1.3.1 Video call for System users

Problems:

- Earlier versions restrict system user from performing video calls with permissions to log in to multiple clients at the same time, but the system user only logs in to one client in most cases.
- System users cannot disable the multi-client login mode for video call in earlier versions.

Solutions:

Multi-client login mode cannot be disabled for video call in earlier versions. This is not practical when the system user needs to use the video call function.



Only the System user can disable multi-client login for itself.

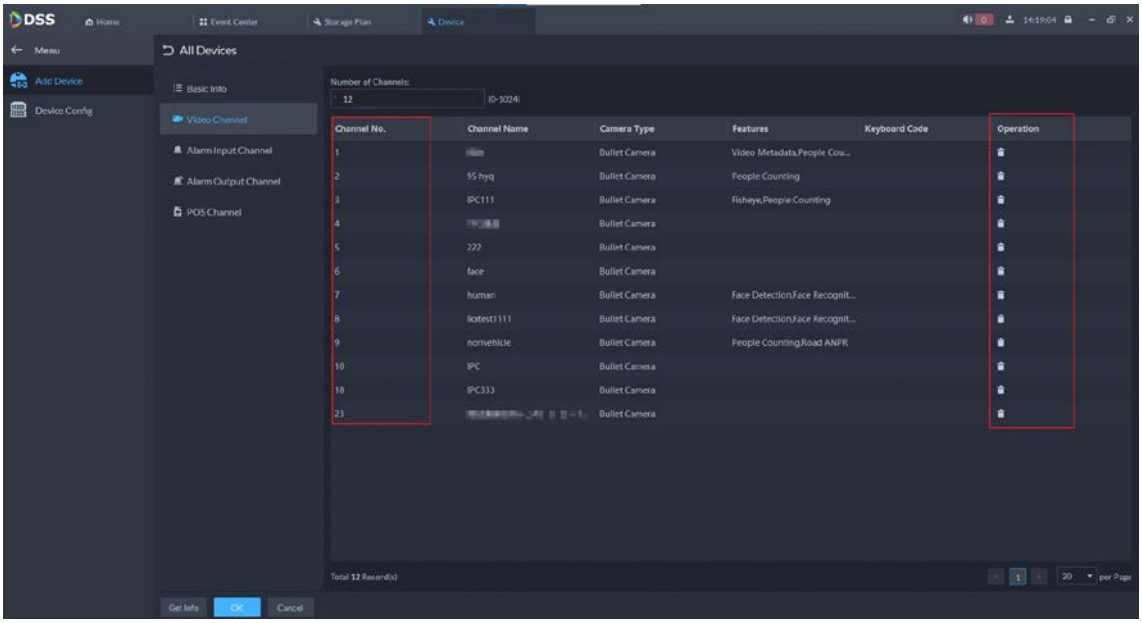
1.3.2 Adding multi-channel devices

Problems:

- When adding a multi-channel device to the system, all channels of the device were automatically added by default and cannot be modified.
- When the number of all channels reaches the license limit, no device can be added anymore.

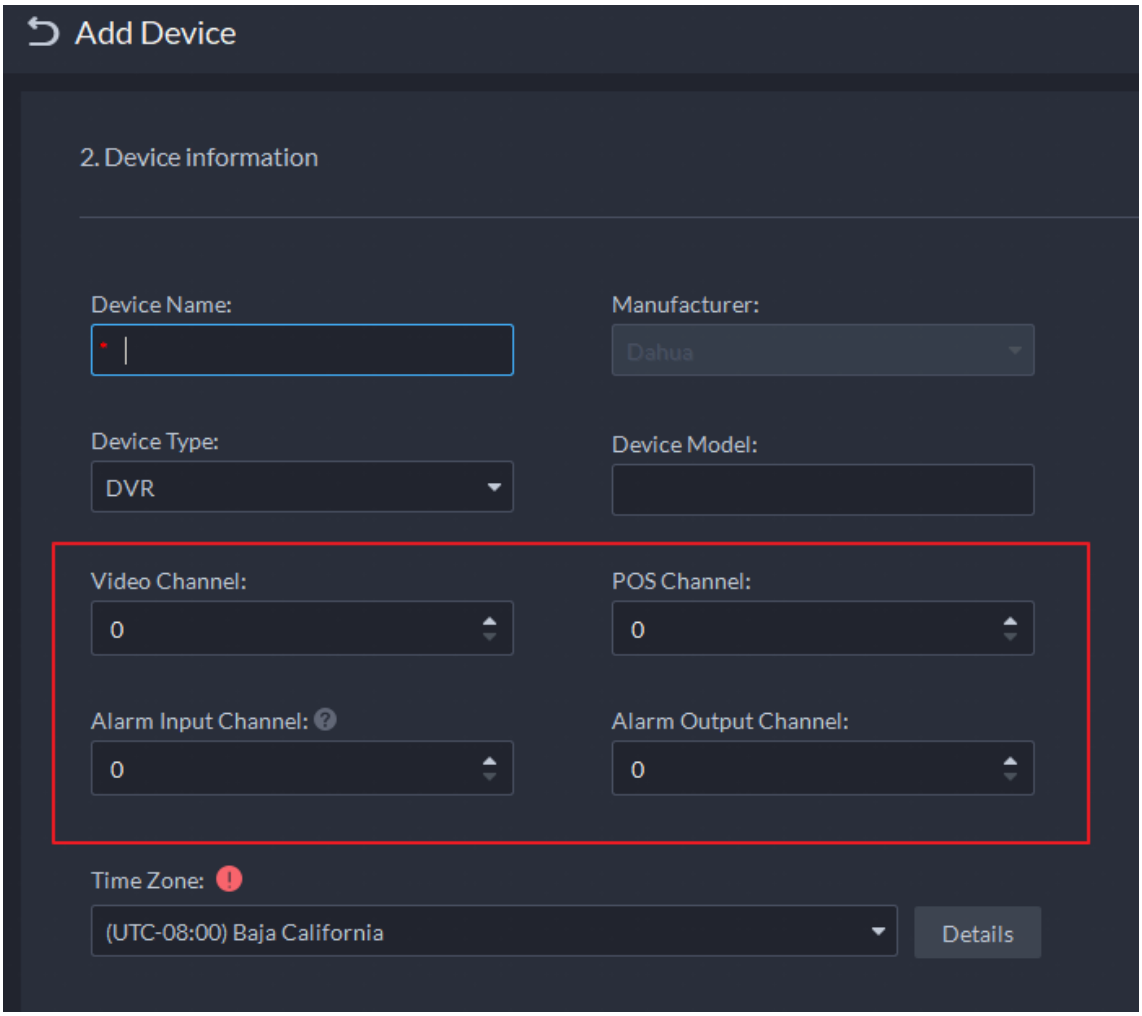
Solutions:

Added a number for each channel and you can delete any of them.

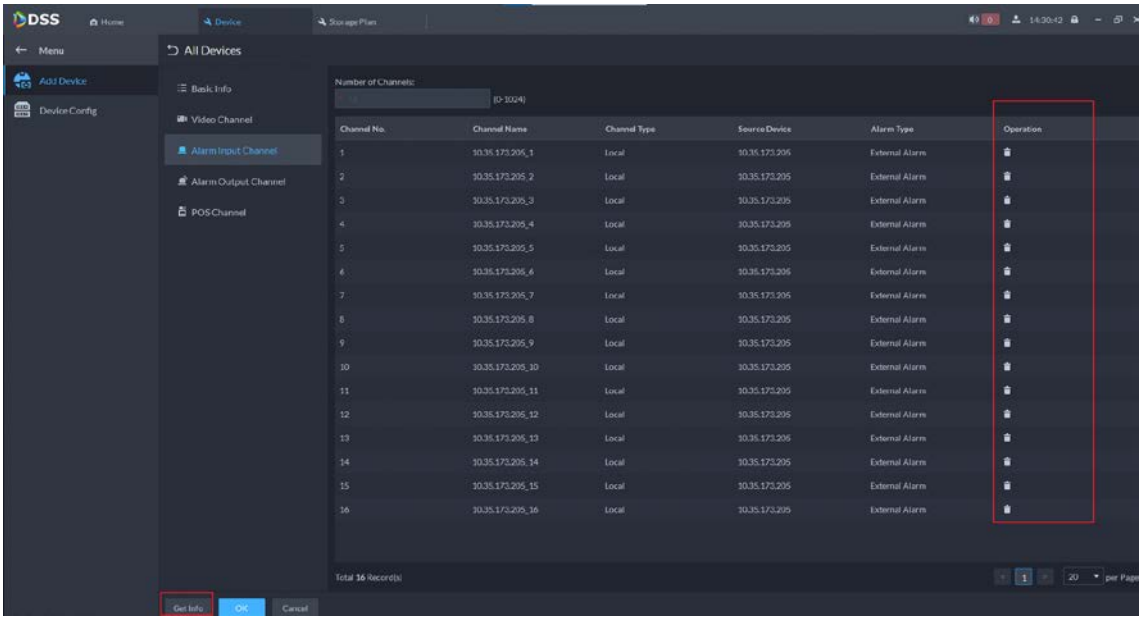


Follow the steps below to add a device with more channels than the license limit.

Step 1 Add the device. While filling in the device information, set the number of each channel within the license limit or as 0.



Step 2 Click **Edit** in **Operation** to get device information and then delete unnecessary channels.



1.3.3 Storage management

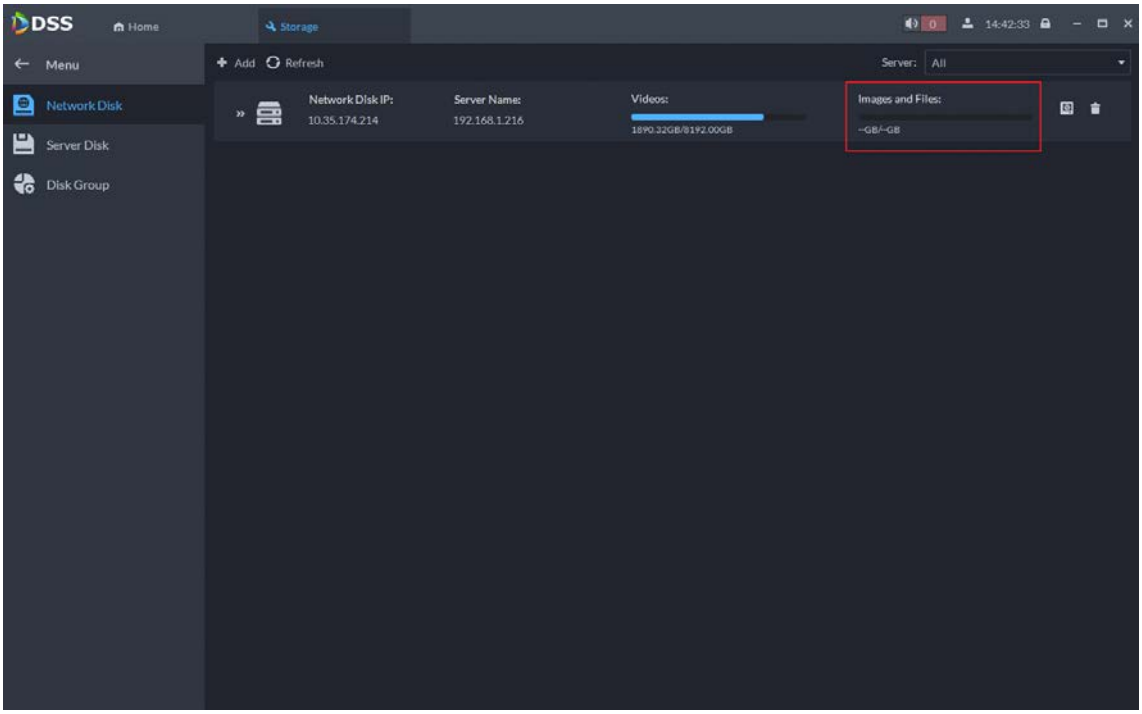
Problems:

- Face, alarm and video metadata pictures were stored in OSS disks and passing vehicle snapshots for license plate recognition were stored in CQFS disks, which caused inconvenience.

- Face, alarm and video metadata pictures can only be stored in local disks of the server with limited storage capacity.

Solutions:

- Unify the storage of face, alarm and video metadata pictures as well as passing vehicle snapshots in OSS disks. Unify the name as Images and Files to store face, alarm and video metadata pictures, passing vehicle snapshots and retrieval pictures from MPT devices.
- OSS disks to store face, alarm and video metadata pictures support IPSAN for expanded storage capacity of images and files.



1.3.4 Center storage for hot standby

Problem:

Hot standby didn't support center storage and a sub Server has to be added to store data.

Solutions:

Server disks:

- Disks that store images and files and incident files support hot standby.
- Local disks that store videos do not support hot standby.
- For hot standby of disks that store images and files and incident files, the disk configuration of the main and sub servers shall remain consistent in type and space.

IPSAN:

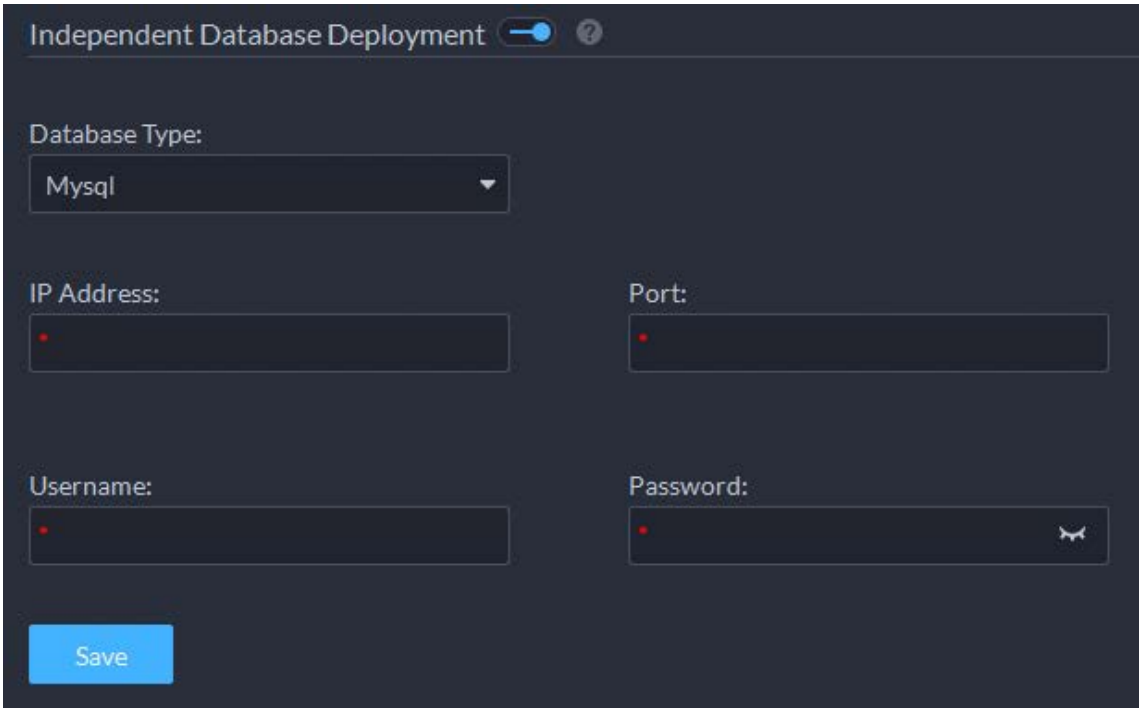
- Disks that store videos support hot standby.
- Disks that store images and files support hot standby.
- Type of disks added to the main and sub servers must remain consistent for hot standby.

1.3.5 Independent database deployment

Solutions:

Users can deploy an external database to expand storage of face, metadata, ANPR and event data from 5 million strings to 30 million strings based on MySQL data.

After deploying an external database, users can activate the independent database service in System Parameters to expand the overall communication throughput capacity.



1.3.6 License of DSS Agile VDP users

Solutions:

Added authorization management of DSS Agile VDP users. When the number of free users exceeds the limit, users need to buy a new license.

For the trial or official version of DSS Professional, you can authorize 500 DSS Agile VDP accounts. When the number of registered accounts reaches 500, you need to buy a DSS Agile VDP User License to register more accounts.

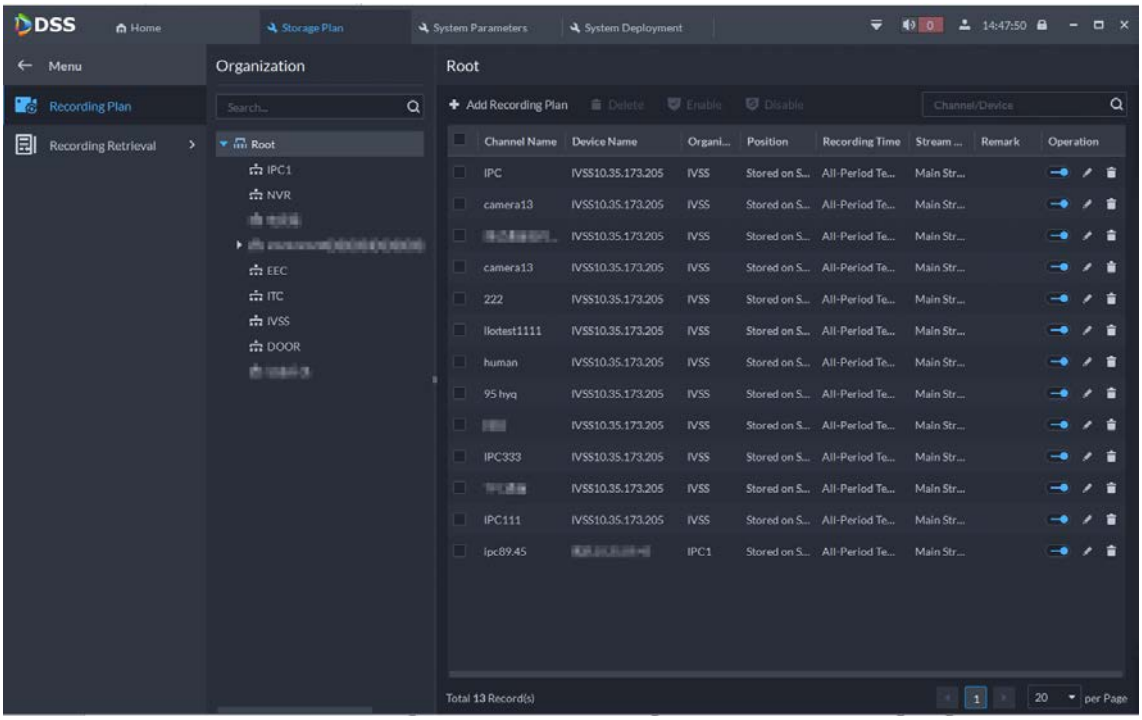
1.3.7 Configure center recording plans in batches

Problem:

Users had to configure the center recording plan for each channel one by one.

Solutions:

Added recoding plan configuration including recording plan and recording retrieval plan. Users can configure center recording plans for video channels in batches. After configuration, the recoding plan of each channel is displayed.



1.3.8 Configure recording retrieval plans

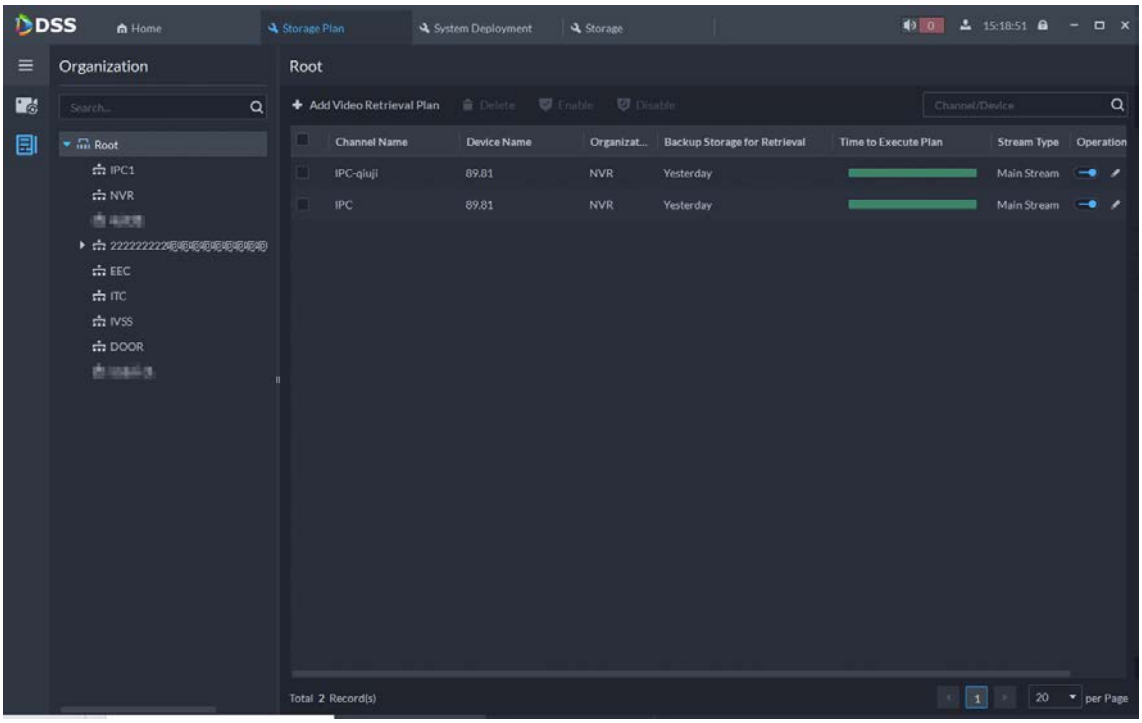
Problems:

- Users have to configure retrieval plans one by one.
- Only main stream is supported for retrieval plans.
- Images and videos of MPT devices need to be backed up in the server.

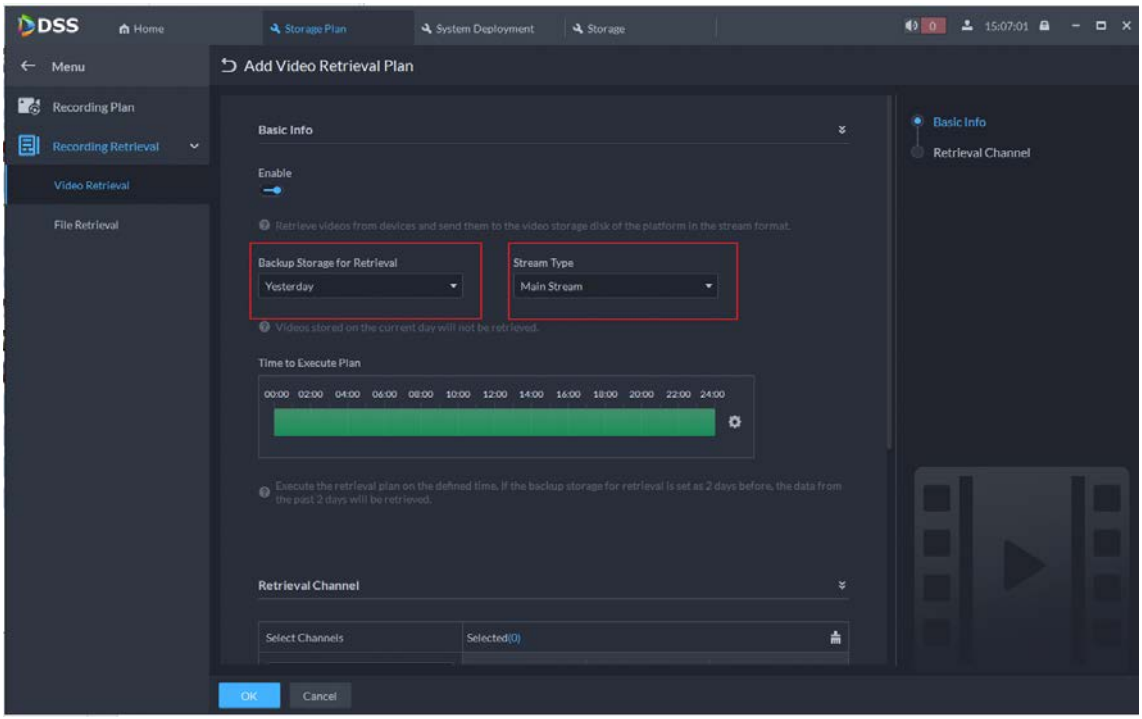
Solutions:

Video retrieval

- Configure recording retrieval plans in Recording Retrieval in Storage Plan.

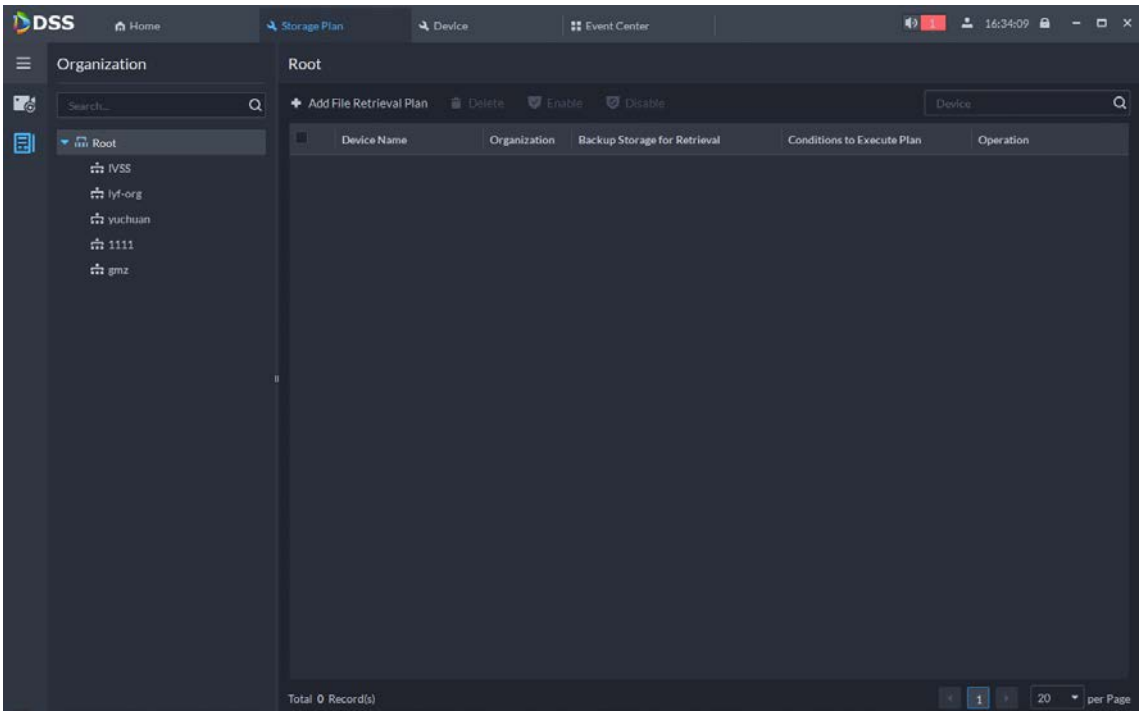


- Stream type: Main Stream, Sub Stream 1, and Sub Stream 2.
- Recording retrieval cycle extends to 7 days (Files from the current day are not included).



File retrieval

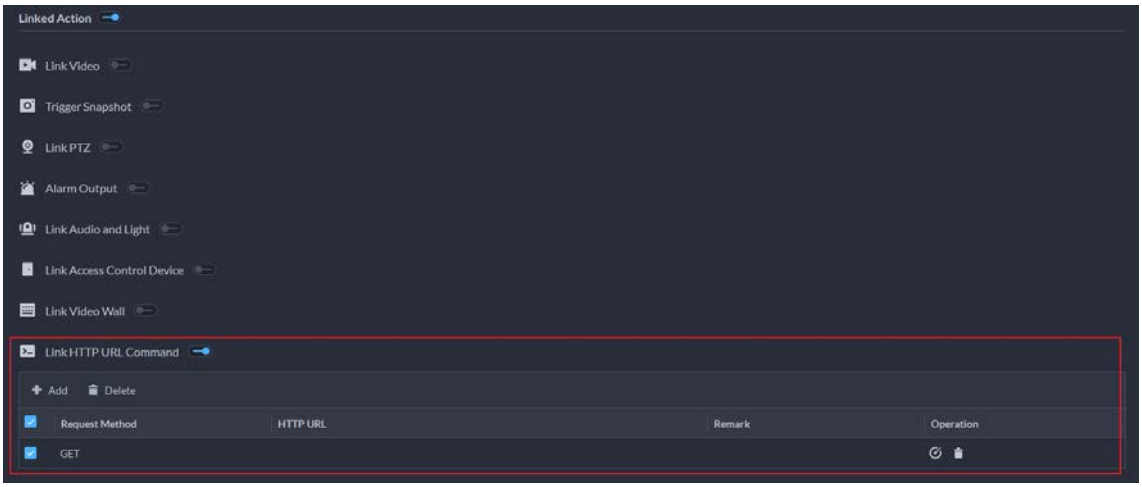
- Configure file retrieval plans in Recording Retrieval in Storage Plan.
- File retrieval cycle extends to 7 days (Files of the recording day are included).
- Set to allow recording retrieval only when connected to Wifi.



1.3.9 Alarm events linking to HTTP URL command

Solutions:

- Added Link HTTP URL Command to Event Configuration. After enabling the function, users can input a HTTP URL command to link Dahua or third-party devices. When such an event occurs, the platform will execute the command.
- One-click to check whether the command performs normally.



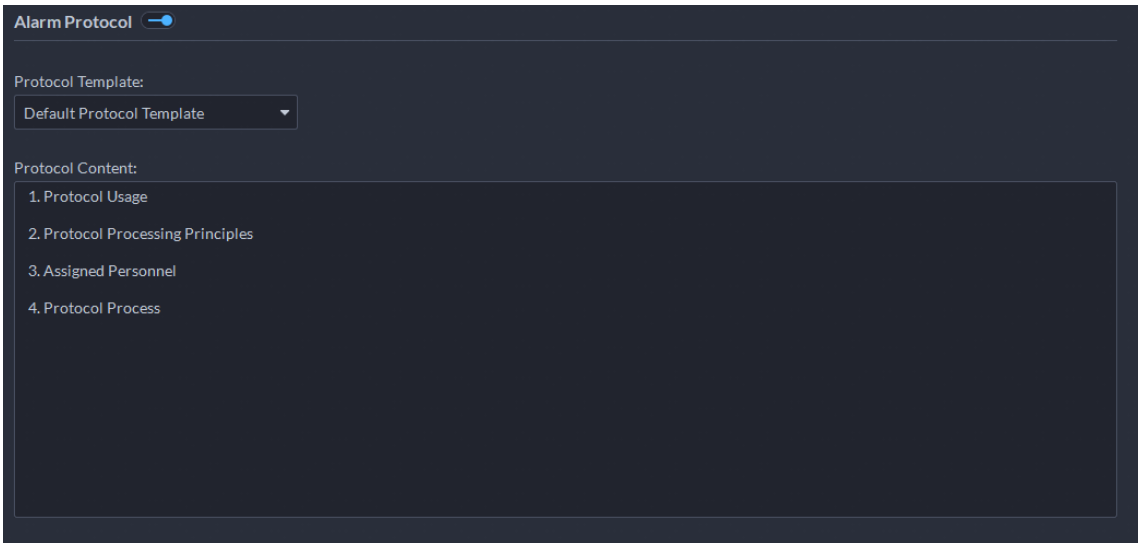
1.3.10 Alarm protocols

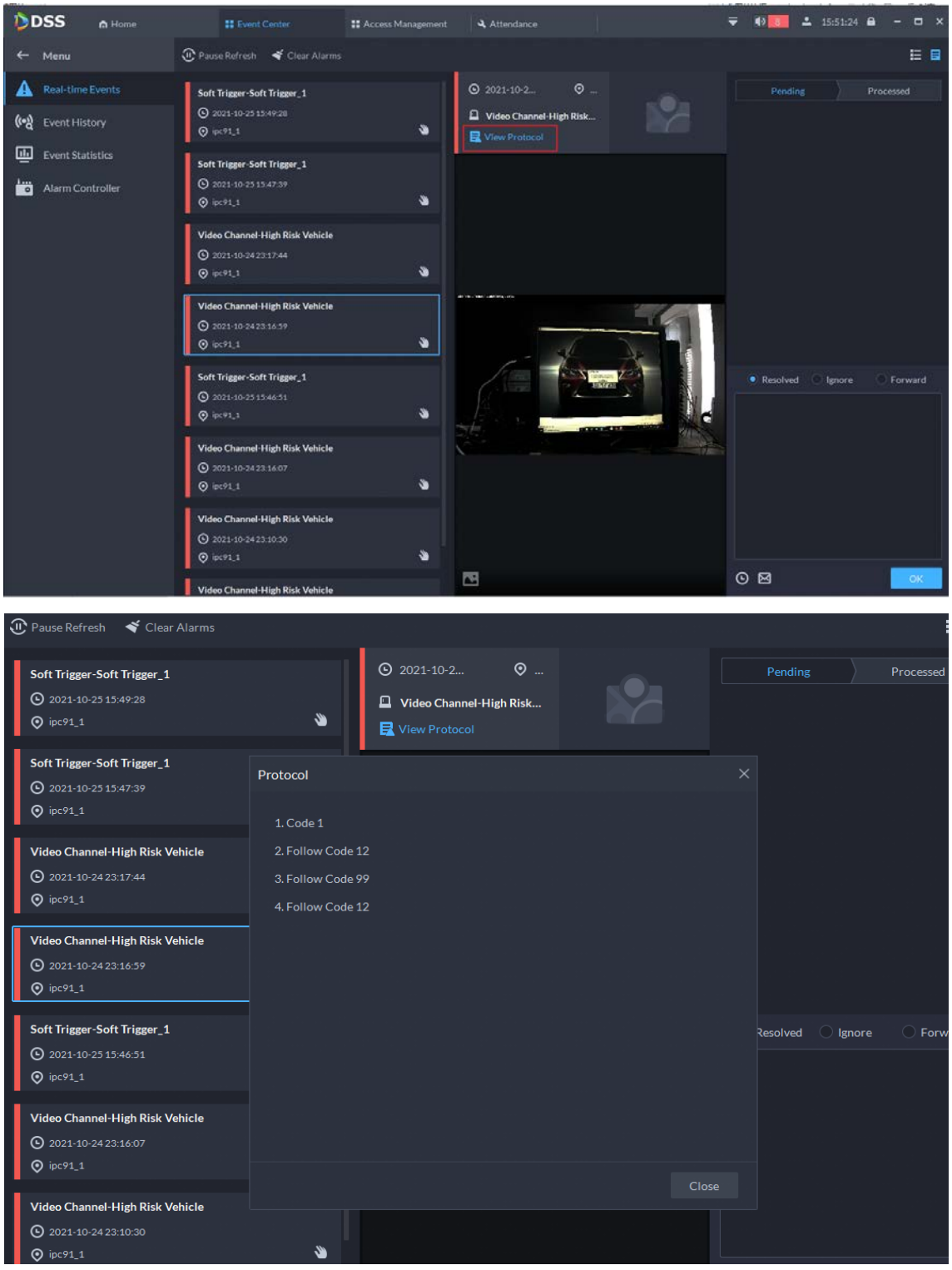
Problem:

Alarm protocol was not supported. Users could not add a protocol when an alarm occur to show information about handling the alarm.

Solutions:

Users can configure protocol contents in Event and view the contents in Real-time Events and Event History to process the alarms accordingly.





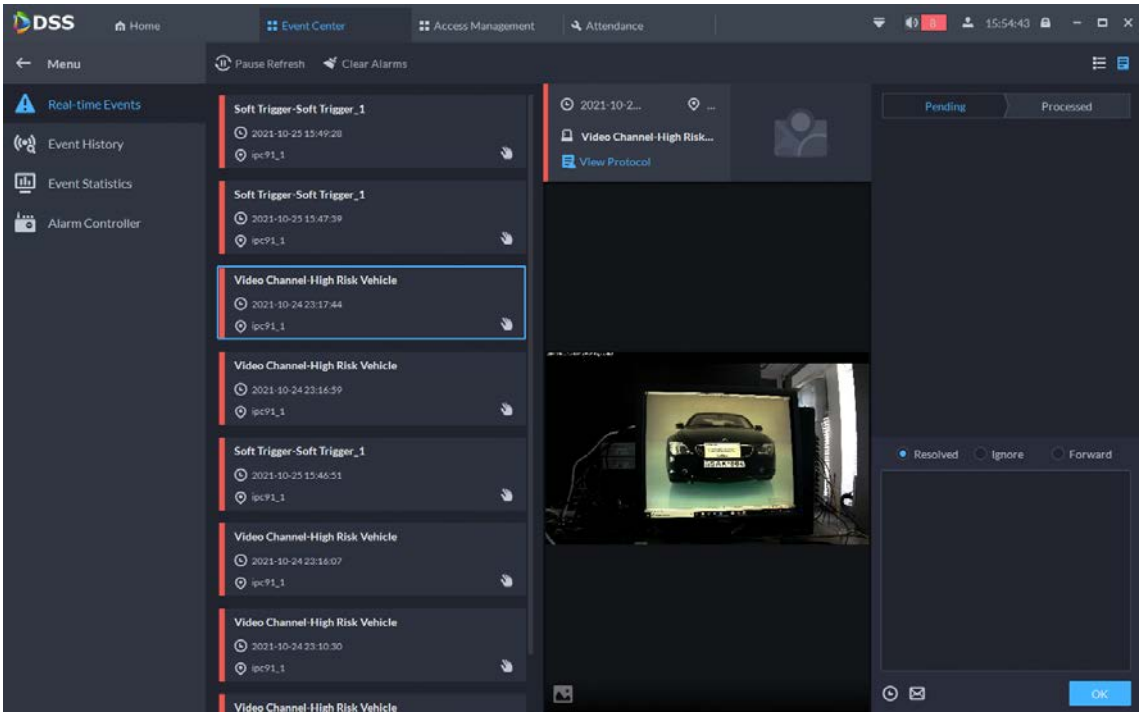
1.3.11 Real-time alarm events

Problem:

When viewing the real-time events, users had to switch among pages of event description and corresponding recordings, pictures and videos.

Solutions:

- Tiled display of event description, real-time recordings, videos and pictures. Users can open the files to quickly assess the event.
- Users can also download alarm event images for event assessment and sharing.

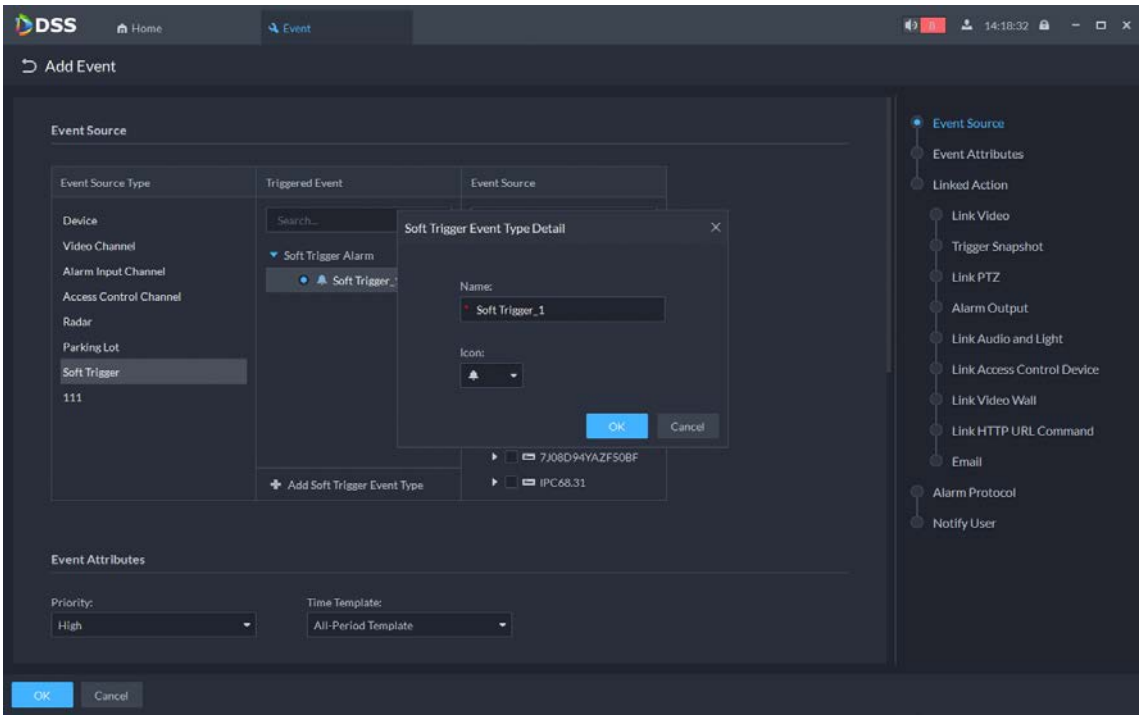


1.3.12 Soft trigger

Solutions:

Users can customize the name of the event source type, and then select an icon for manual trigger and video channels as the event source. When viewing live videos of the selected channels in monitoring center, they will see the icon.

When emergency happens, users can click the icon to quickly trigger an alarm.



1.3.13 Remote program update

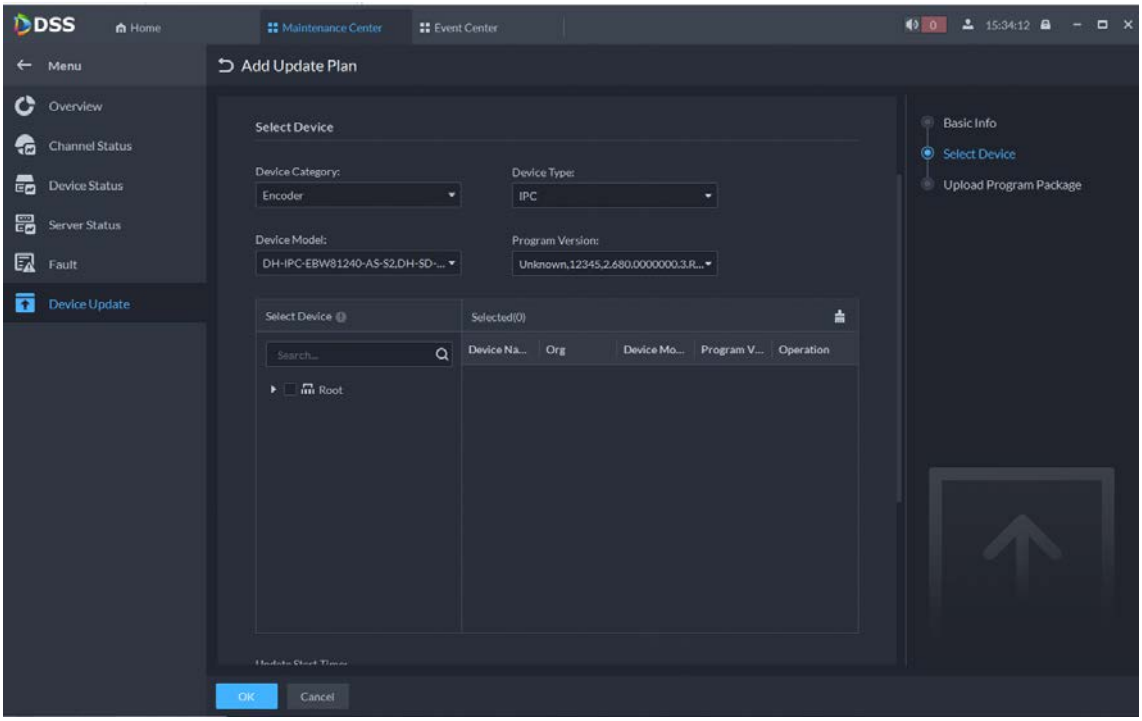
Problem:

If programs of devices added to the system need update, users have to log in to the web or update with other tools.

Solutions:

Update the device programs in batches on the client through adding update plans and customize the time to perform update so that users can set to update the programs in spare time.

An update plan can include multiple devices to update their programs in batches.



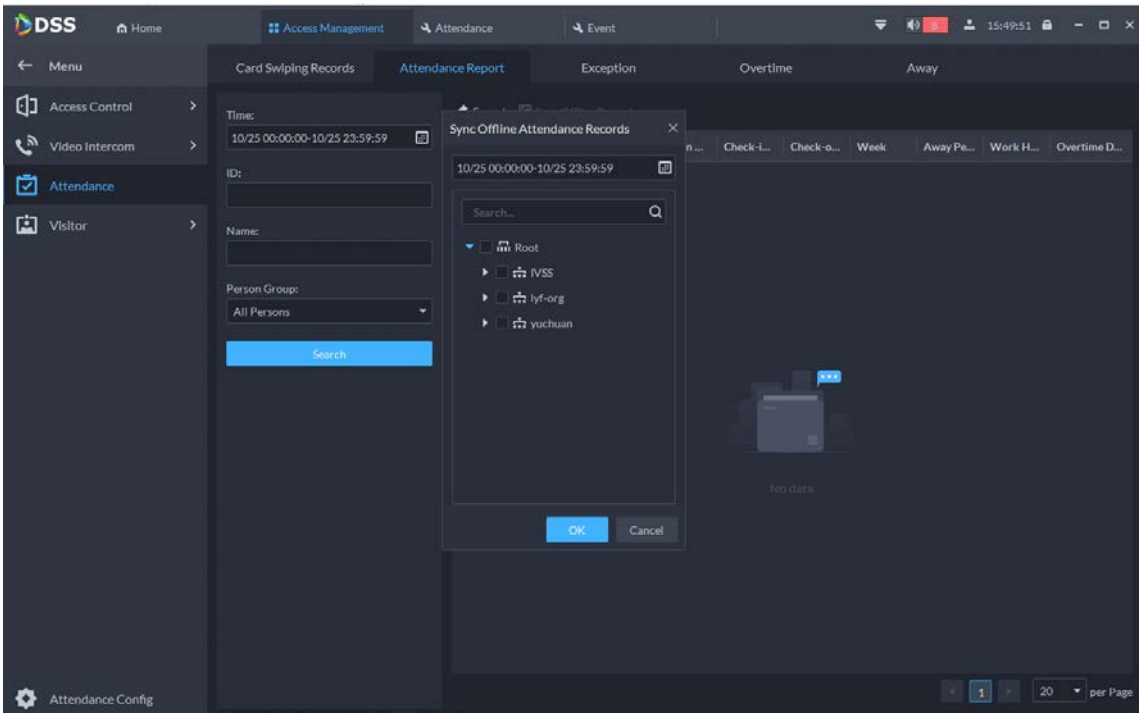
1.3.14 Access control records and attendance reports

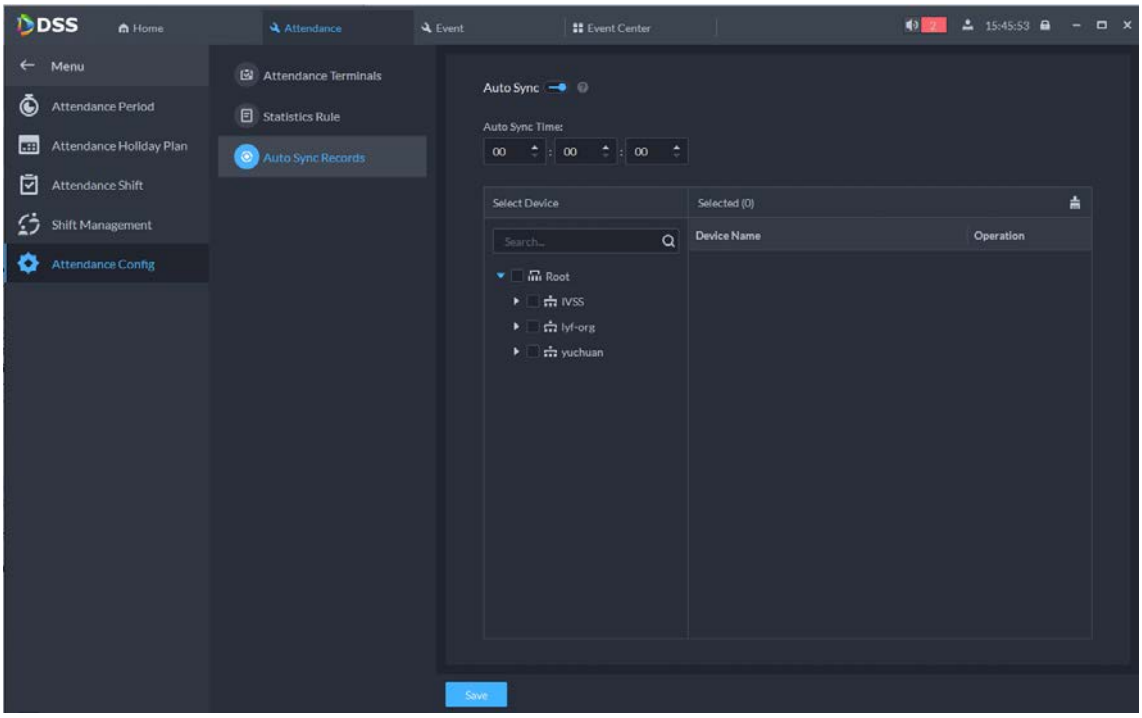
Problem:

Attendance records generated by devices when they are offline cannot be synchronized to the system.

Solutions:

- Manually synchronize: Users can select a device to manually synchronize its offline records in Attendance Reports.
- Automatically synchronize: User can enable Auto Sync Records in Attendance Configuration and set the synchronization time for a selected device to perform automatic synchronization each day.



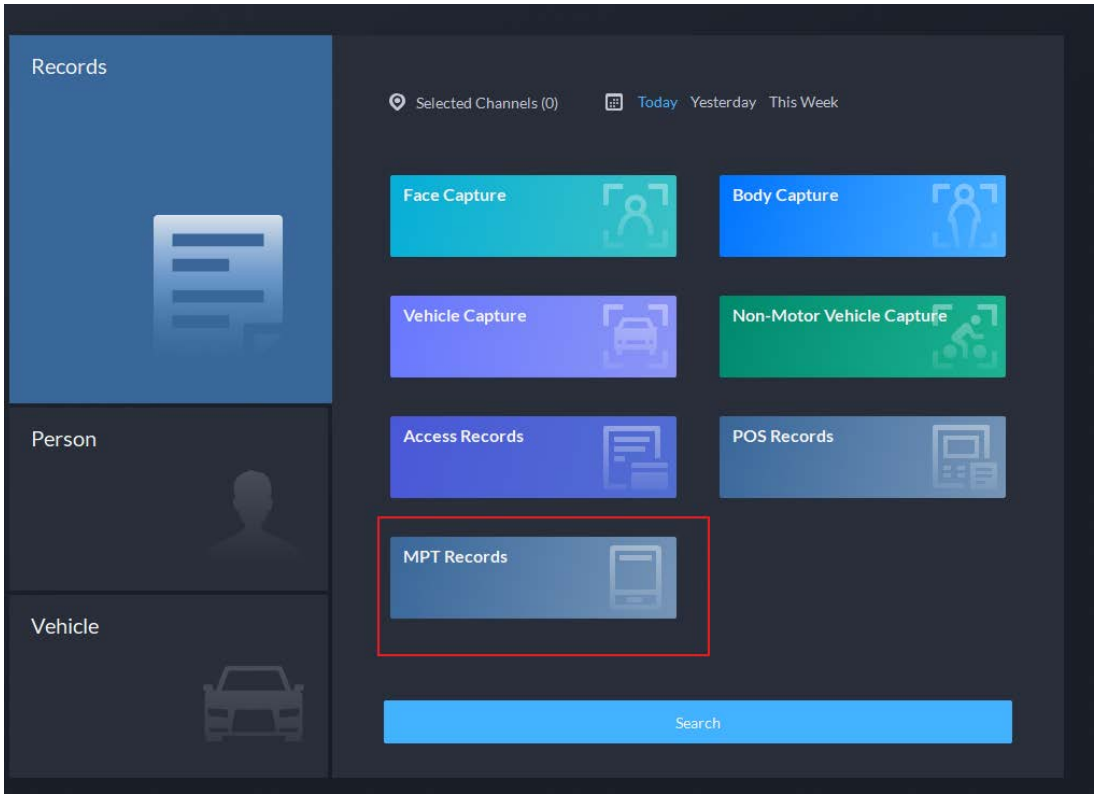


1.3.15 MPT devices

Solutions:

Add MPT devices.

- Users can add MPT devices to the system through auto registration and view their real-time videos and locations in Monitoring Center, and synchronize the device alarms in Event Center.
- With file retrieval function, MPT files can be downloaded to the server for storage. Users can view these files in DeepXplore.



1.3.16 Synthesis through Bridge

Problem:

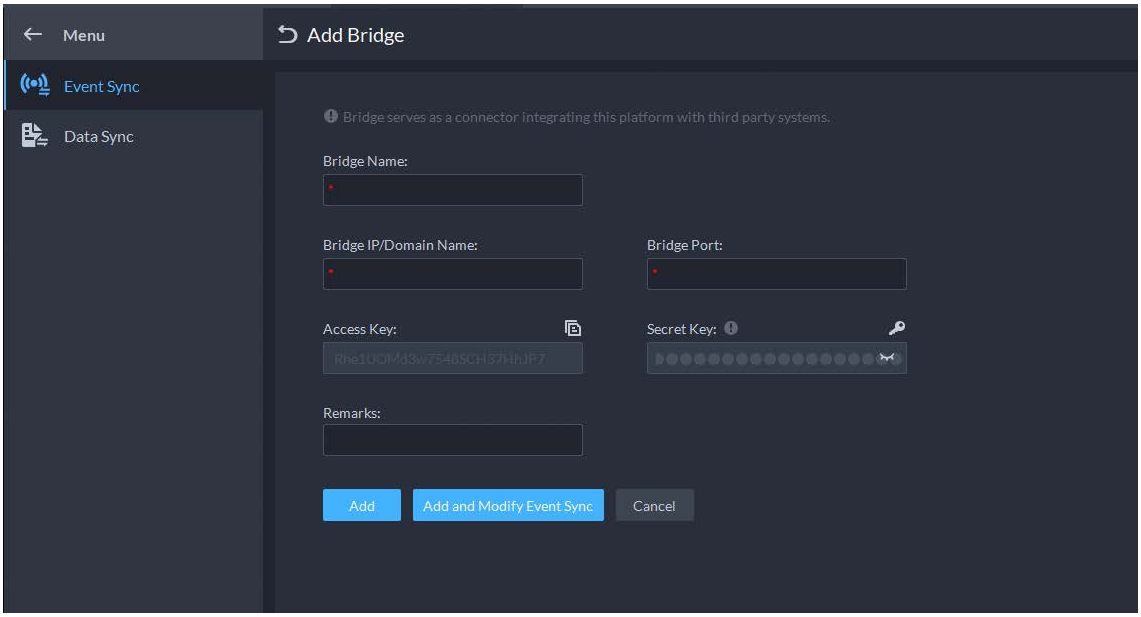
The previous versions cannot connect to an independent third-party system via Bridge to authenticate the event type and source of the third-party, nor can they receive third-party system events or configure event protocols on the system for event linkage.

Solutions:

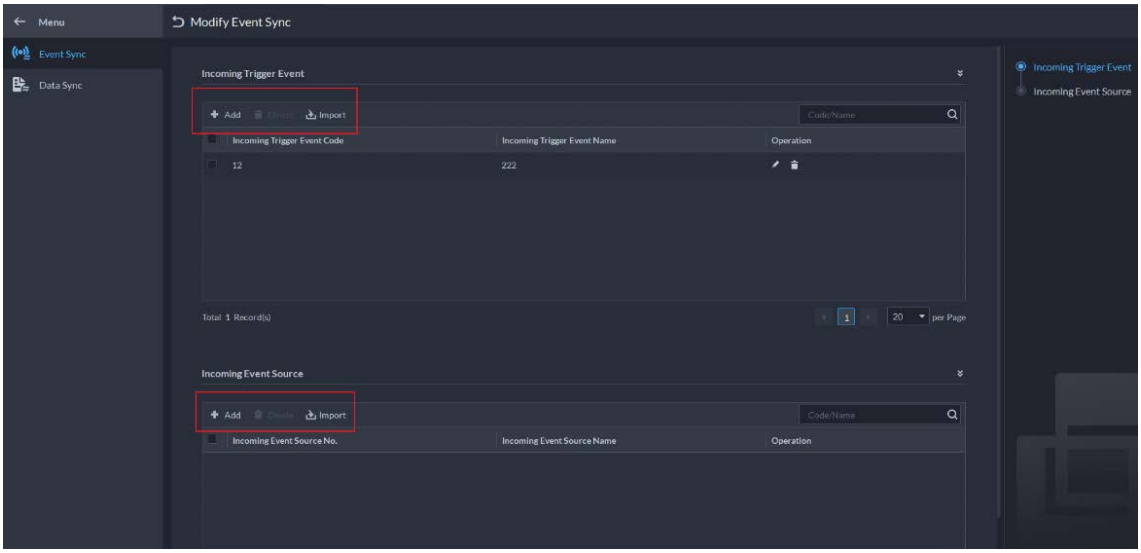
Added Event Sync where users can configure Bridge basic information, the Incoming Trigger Event and Incoming Event Source as well as event protocols in DSS system.

Procedures:

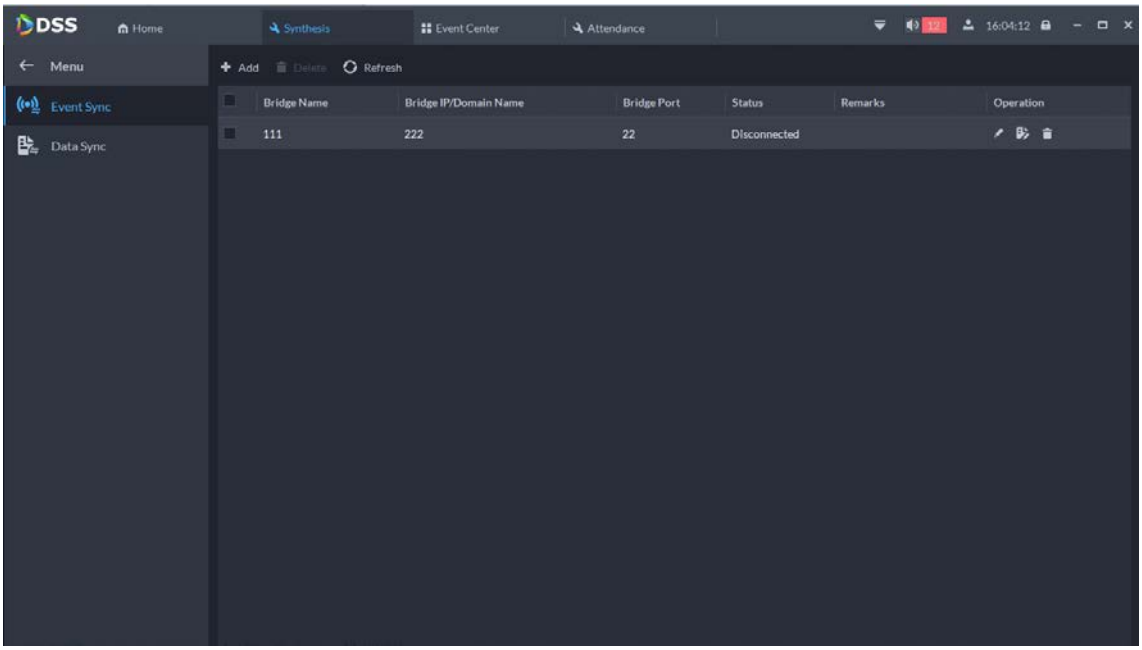
Step 1 Configure the basic information of Bridge, including name, IP address/domain name, port and more.



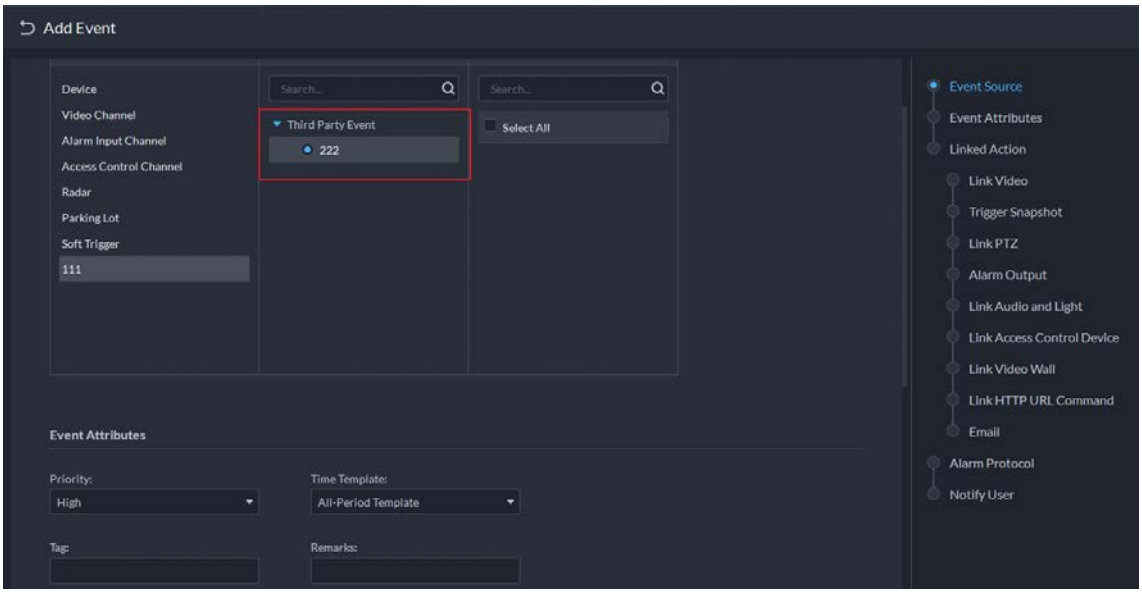
Step 2 Add/import Incoming Trigger Event and Incoming Event Source.



Step 3 Return to the Bridge list.



- Configure and receive third-party events in Event configuration.



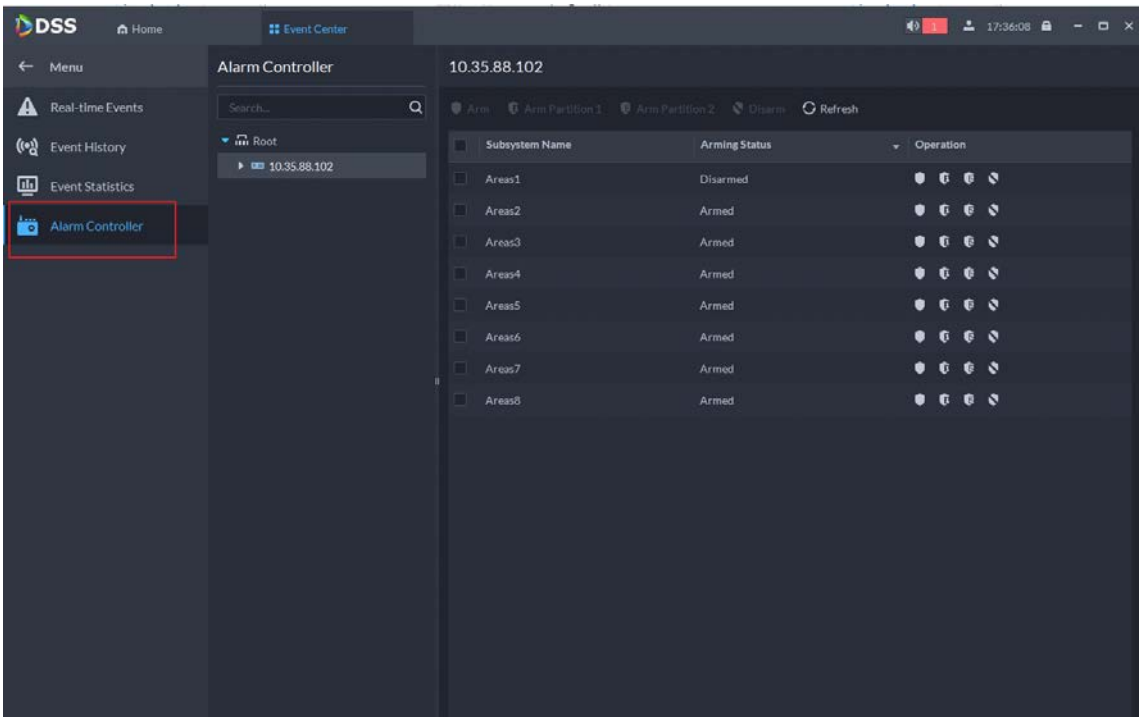
1.3.17 Alarm controller

Problem:

The system didn't support configuring the basic functions of alarm controller including arming, disarming, bypass and unbypass.

Solutions:

- The alarm controller displays arm, disarm, bypass, isolate and unbypass.
- Added Alarm Controller to Event Center where users can arm or disarm the alarm controller, sub systems and partitions. Select the zone under Alarm Controller to configure bypass, isolate and unbypass.


DSS
Home
Event Center
17:36:08
Menu
Real-time Events
Event History
Event Statistics
Alarm Controller
Alarm Controller
Search...
Root
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10.35.88.102
Arm
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Area1
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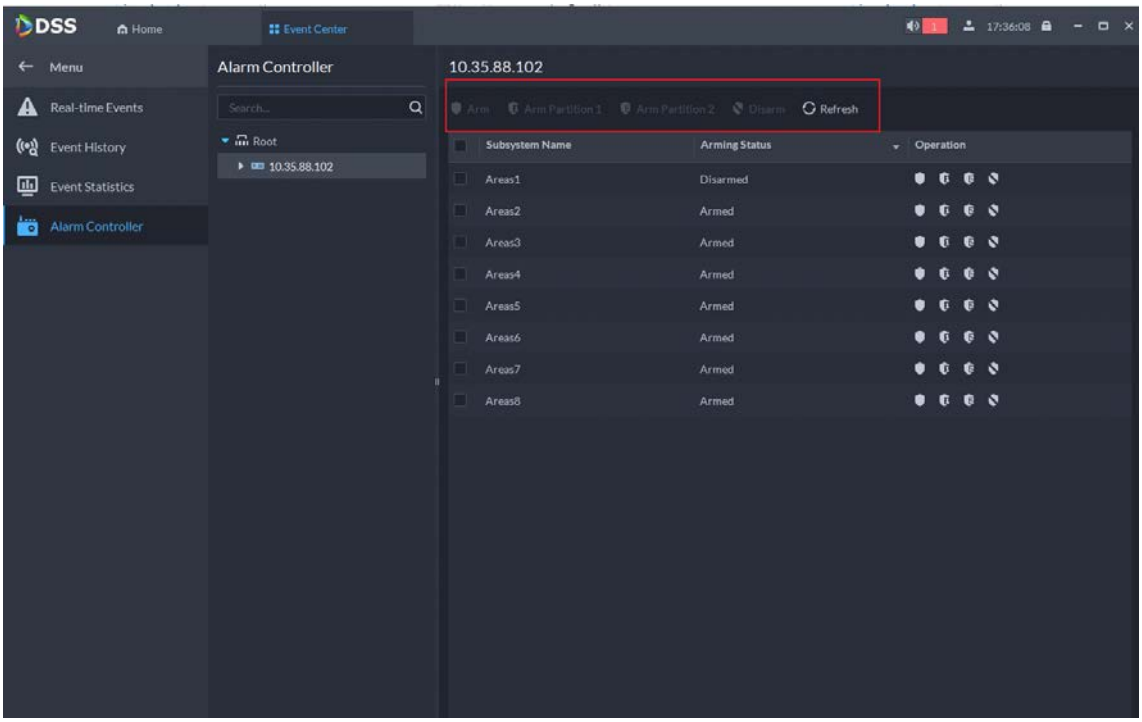
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Event History
Event Statistics
Alarm Controller
Alarm Controller
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Root
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10.35.88.102
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Arm Partition 1
Arm Partition 2
Disarm
Refresh
Subsystem Name
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Area1
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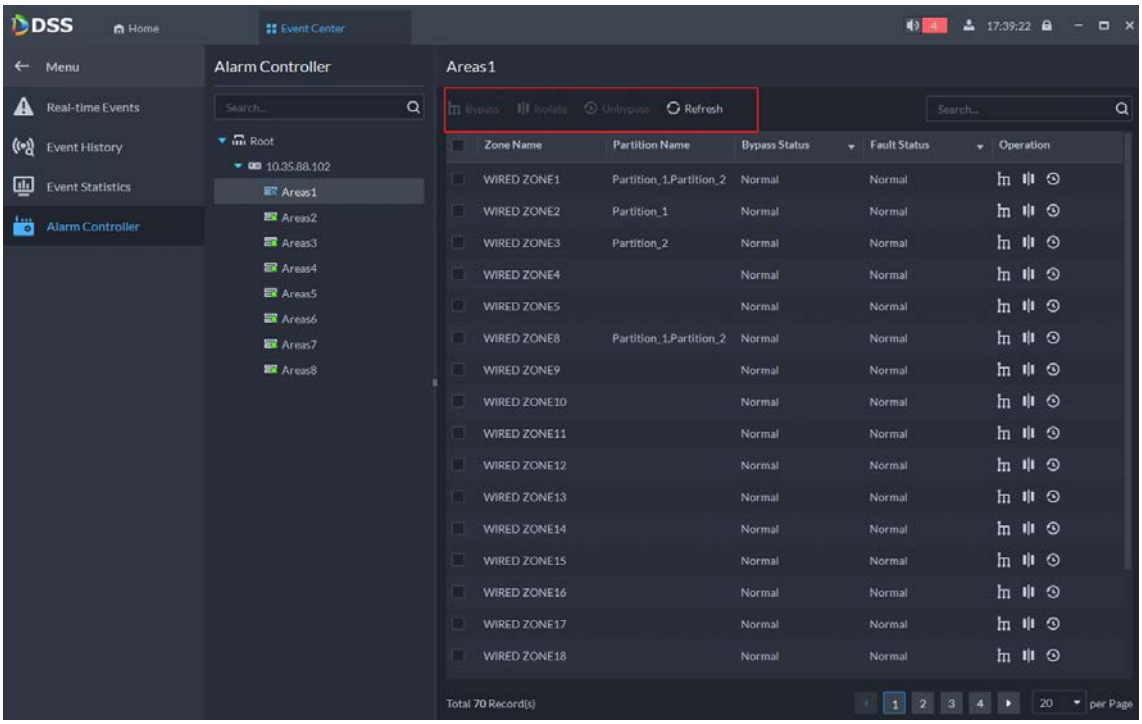


1.3.18 Automatically lock the client

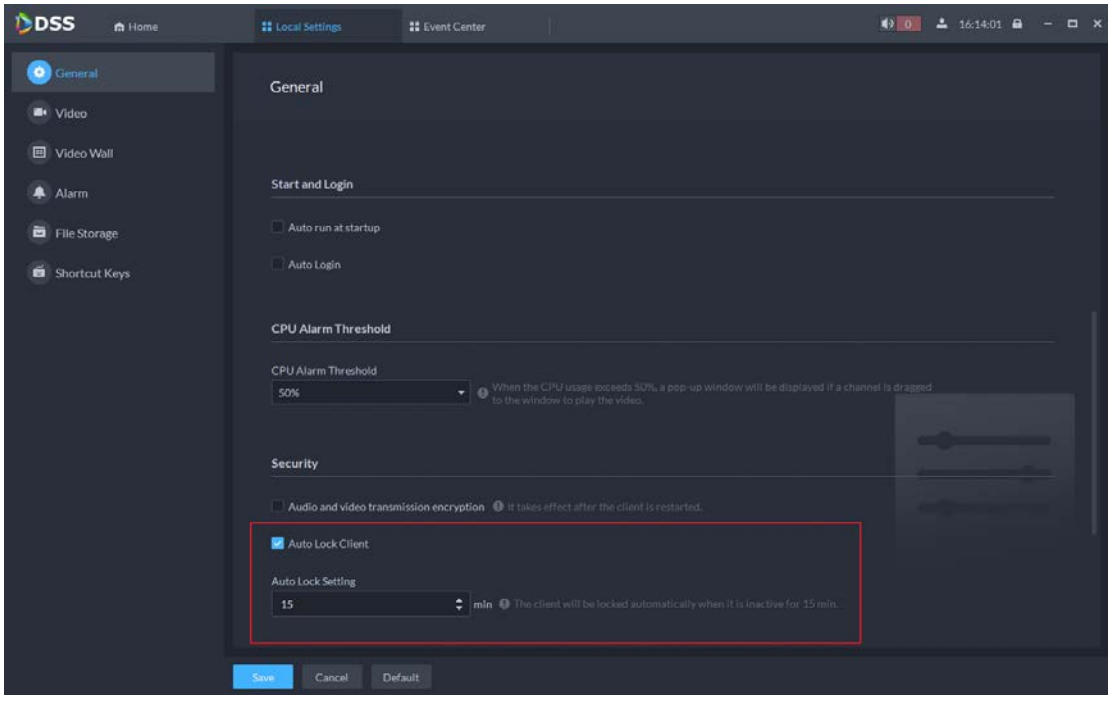
Problem:

The previous versions cannot automatically lock the client if it is inactive for long, which posed a threat to system security.

Solution:

Added General in Local Settings where users can enable Auto Lock Client and set the inactive limit for auto lock.

The client will be locked automatically when it is inactive for the configured period.



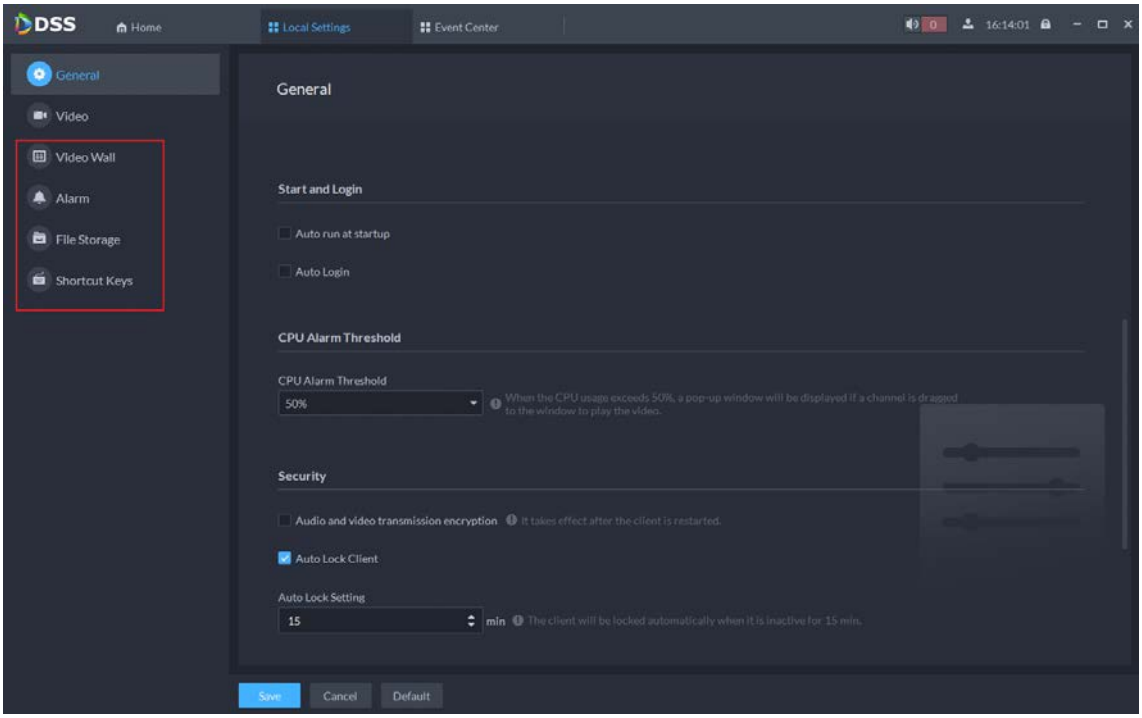
1.3.19 Local settings

Problems:

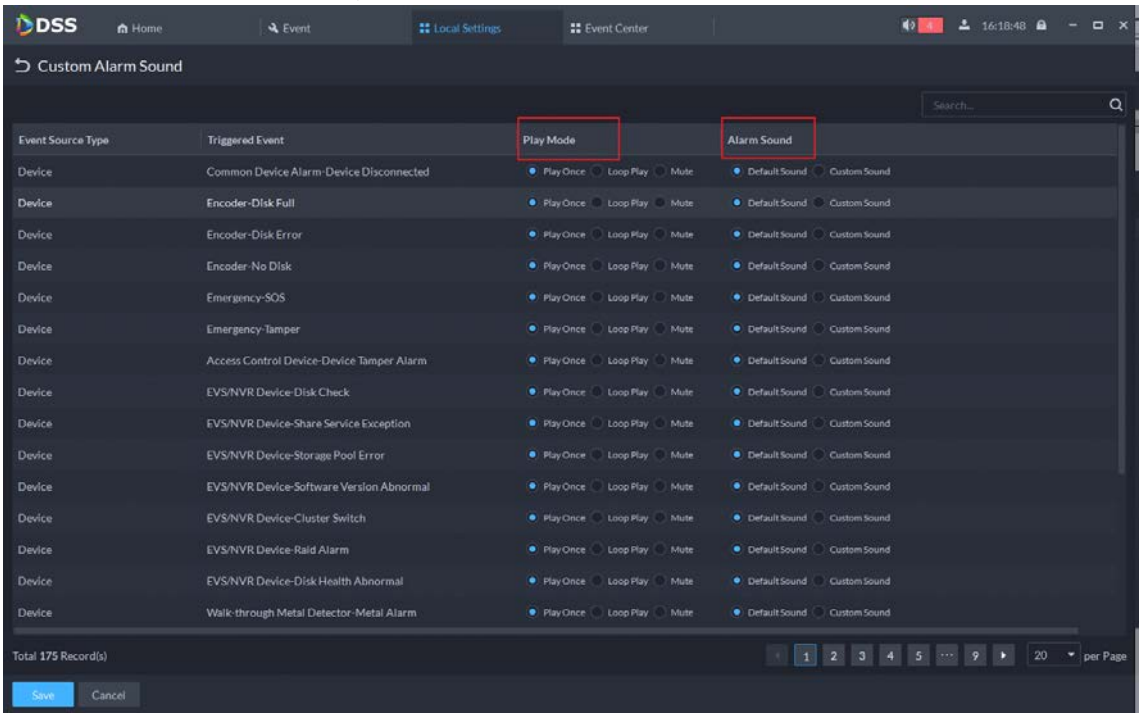
- The Local Settings layout is inappropriate.
- Configuration of alarm sound is illogical.

Solutions:

- The Local Settings menu is divided into General, Video, Video Wall, Alarm, File Storage and Shortcut Keys.



- Users can modify the play mode and alarm sound of each event type one by one or in batches and upload sounds to the system.



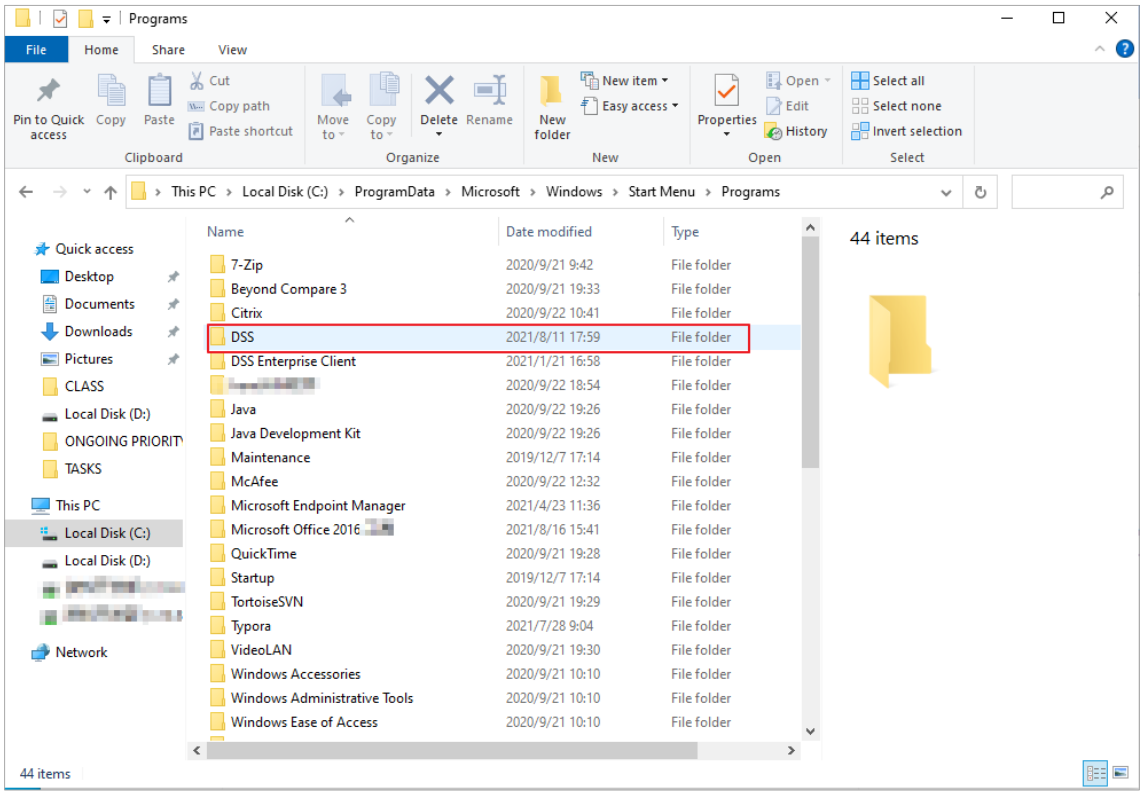
1.3.20 Storage of local setting files, logs and cache files

Problems:

- Configuration and cache files and logs were stored in the directory where the client is installed. But Window Guest Users don't have the permission to write the files and therefore cannot use the client.
- A mechanism is needed to clear the cache files to prevent the client form occupying too much disk capacity after long use.

Solutions:

All files generated by the client will be stored in C:/Users/Public/DSS Client. If this directory does not exist, all files will be stored where the DSS client is installed.



- Added a Cache folder in the path where the DSS client is installed to store temporary cache files, and a Picture folder to store snapshots.
- Clear cache
  - ◇ Exit to clear: When users log out of the system, all files and folders in Cache will be cleared.
  - ◇ Clear on schedule: The files are cleared every 10 minutes and each folder only reserves the latest 500 files.
  - ◇ Clear Dump files: Each process reserves the latest two Dump files and the two DSS processes reserve four Dumps altogether.

1.3.21 Service log debug

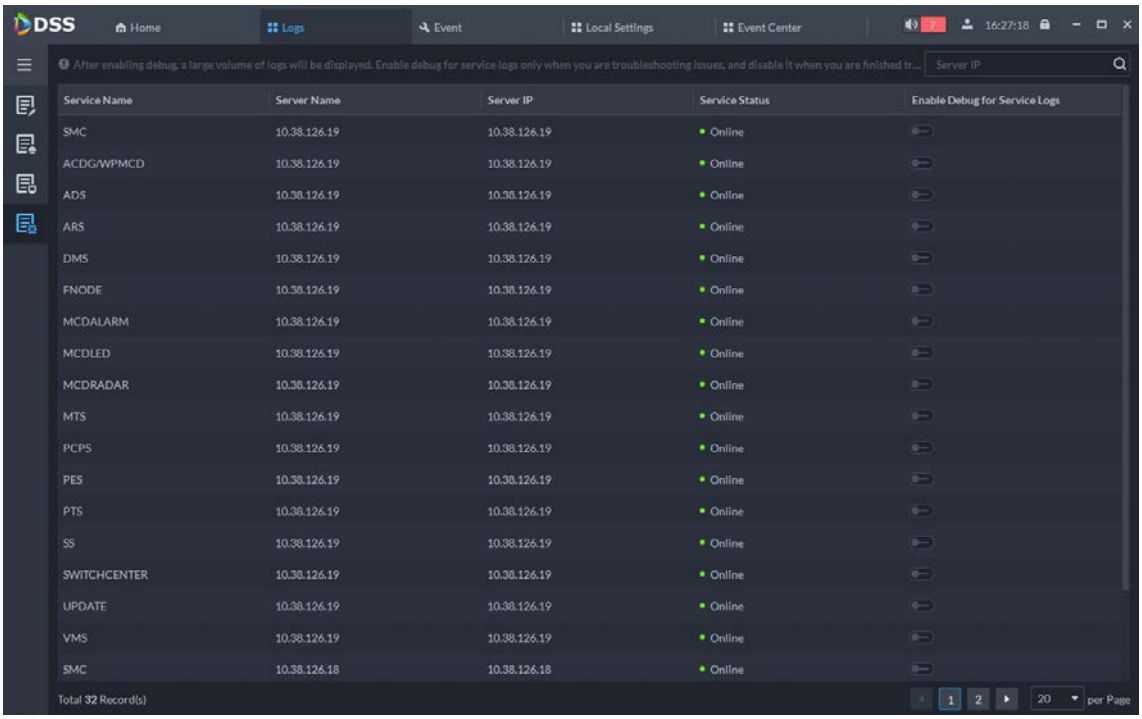
Problem:

Debug methods for previous versions were complicated.

Solutions:

Users can enable or disable debug for service logs in Service Log Debug in Logs.

Only super administrators have permission of the function.



1.3.22 Fix pack

Problem:

Debug efficiency was greatly affected due to poor network, time difference, repetitive work and other factors.

Solution:

Developers will release a fix pack in exe based on the number and severity of bugs. Users only need to double click the exe file to install it on the server for debug.

The latest fix pack fixes all the bugs involved in the previous versions.

1.4 Compatibility

OS Name	OS Type	Platform Type	Test Strategy	Test Result
winserver2012-64bit	Physical machine	Server	Auxiliary test	PASS
winserver2016-64bit	Physical machine	Server	Auxiliary test	PASS
winserver2019-64bit	Physical machine	Server	Main test	PASS
winserver2019-64bit	Virtual machine	Server	Auxiliary test	PASS
win7-32bit	Physical machine	Login Client	Auxiliary test	PASS
win7-64bit	Physical machine	Login Client	Auxiliary test	PASS
winserver2008-64bit	Physical machine	Login Client	Auxiliary test	PASS
winserver2012-64bit	Physical machine	Login Client	Auxiliary test	PASS
winserver2019-64bit	Physical machine	Login Client	Auxiliary test	PASS
winserver2016-64bit	Physical machine	Login Client	Auxiliary test	PASS