

TN-AM-11

Installation Guide for DC-T1445WRA LPR Camera and IDIS Solution Suite Integration

Version 1.0.4

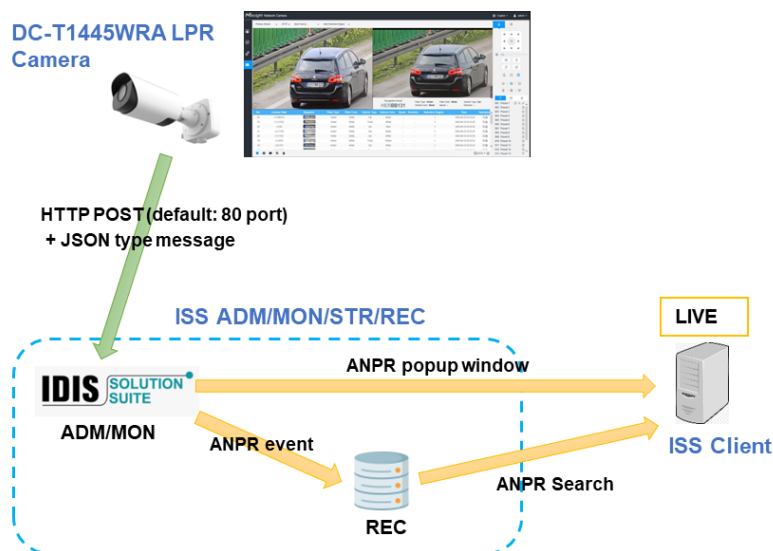
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1 Overview

This document provides information on the installation and configuration of the DC-T1445WRA LPR camera to integrate with the IDIS Solution Suite (ISS).

The DC-T1445WRA camera will transmit detected license plate event information to the ISS in the following manner:



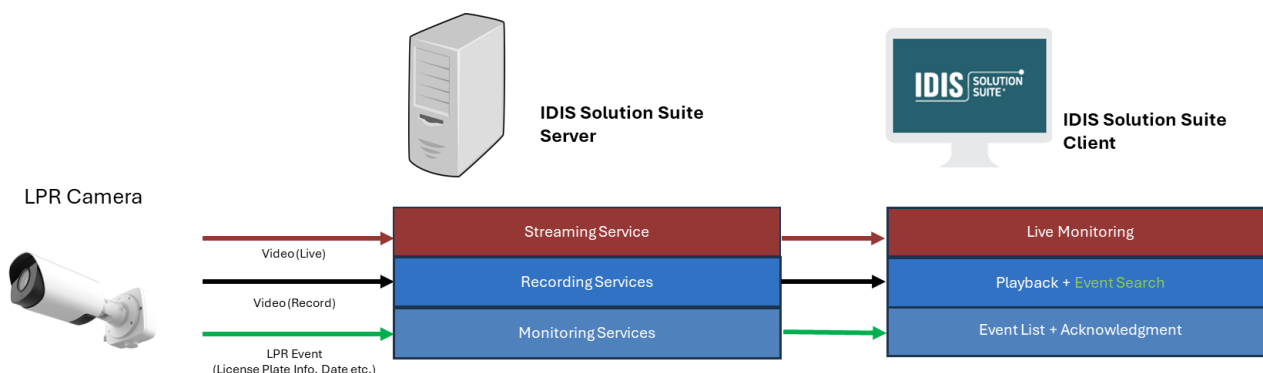
When a license plate is detected by the camera, the event information and detection time are sent to the ISS Monitoring service via an HTTP POST request.

The ISS Monitoring service receives the event, identifies it, and performs actions based on the event settings configured in ISS Setup—such as recording event video, displaying an ANPR event pop-up, and more. Additionally, the Allow/Deny list based on license plate number can be configured within the ISS Monitoring service.

The ISS Recording service stores video along with the event trigger time, license plate number, and Allow/Deny status information.

Users can search for and play recorded video associated with license plate detection events using the ISS Client. Events can also be filtered and searched by license plate information.

Additionally, the live feed from the LPR camera can be displayed in the ISS Client through the ISS Streaming service.



2 Pre-requisite

The following hardware and software should be prepared.

- IP Camera: DC-T1445WRA740nm or DC-T1445WRA850nm
- ISS (IDIS Solution Suite) Expert: 5.0.0, or 5.0.1 version
- ISS Add-On: ISS_Add_On_for_IDIS_VAI_and_DC-T1445WRA_LPR_v5.1.0_20250711.zip
- IDIS Discovery: 4.8.0 or greater version

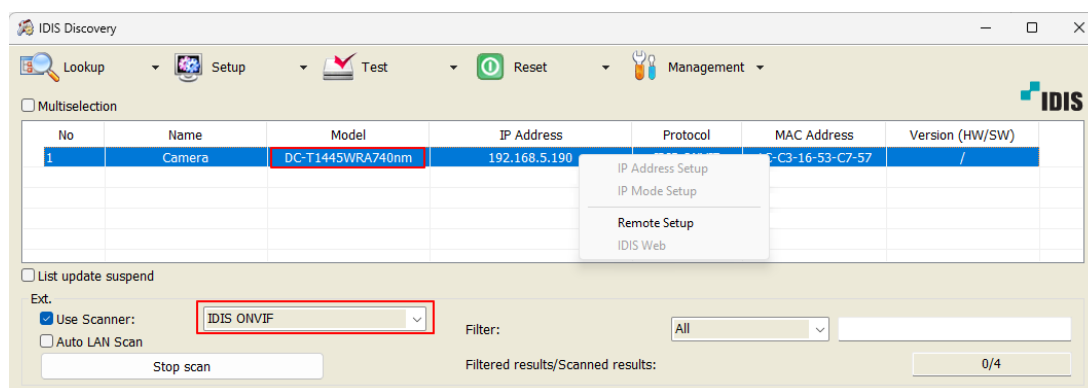
3 Installing and Setting the DC-T1445WRA Camera

Please install and set up the DC-T1445WRA camera by following the instructions below.

- (1) Install the DC-T1445 WRA in an appropriate location.

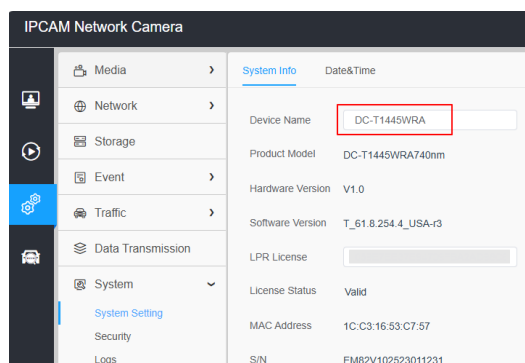
The camera should face the vehicle as directly as possible, with an installation angle of less than 30 degrees relative to the vehicle's direction of travel.

- (2) Run the IDIS Discovery program and select the 'Use Scanner' option with 'IDIS ONVIF'. If the DC-T1445WRA740nm or DC-T1445WRA850nm model appears in the device list, select 'Remote Setup'.



Caution: The default IP address and subnet mask of the camera are **192.168.5.190 / 24**. Therefore, the PC running IDIS Discovery must be set to an IP address within the same subnet range

- (3) Log in to the camera's web interface. Set the password during the initial login.
- (4) Go to Settings > System > System Setting, and enter the device name for the camera.



Caution: Enter a unique name, as this setting must match the Human-Friendly ID configured in ISS later. This device name is used to identify each ANPR camera in the ISS system.

- (5) Go to Settings > Traffic > LPR > General. Select the 'Enable LPR', set the license plate detection, and detection options. Then click 'Save'.

- (6) Go to Settings > Data Transmission > Post, and configure the 'Post and Data Settings' as follows. Then, click 'Save'.

- Select Events: LPR
- Post Type: HTTP
- URL: http://{IP Address of the ISS Monitoring Service}:{HTTP port}/post
 - If the HTTP port is set to 80, the port information can be omitted.
- Enable: Selected
- HTTP Method: Post
- User Name / Password: User name and password of the ISS
- Automatic Retransmission: Unselected (optional)
- Data Settings: Original Mode

(7) Go to LPR Mode and check whether the vehicle's license plate is recognized correctly.

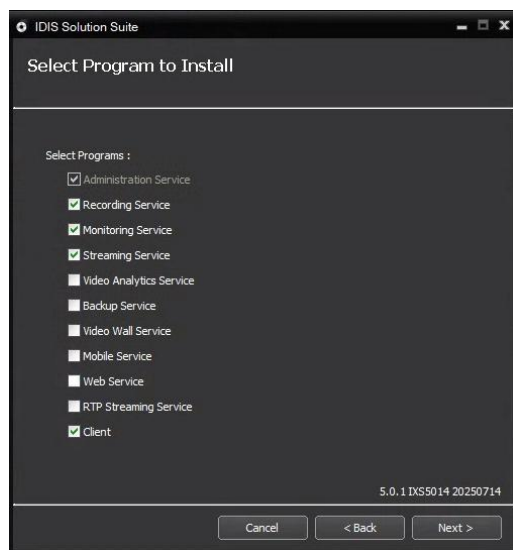
No.	Event Type	License Plate	Snapshot	Plate Type	Speed	Direction	Detection Region	Time	Operation
2	LPR	SZZ		Visitor	-	↑ Away	1	2025-07-23 15:10:30.366	
1	LPR	SZZ		Visitor	-	↓ Approach	1	2025-07-23 15:10:09.290	

4 Installing the IDIS Solution Suite and Add-on Package

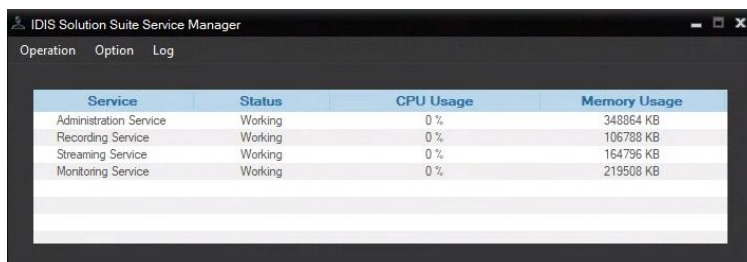
4.1 Installing the IDIS Solution Suite

(1) Install the IDIS Solution suite including the following service modules and client.

- Administration, Recording, Monitoring, Streaming Services
- Client

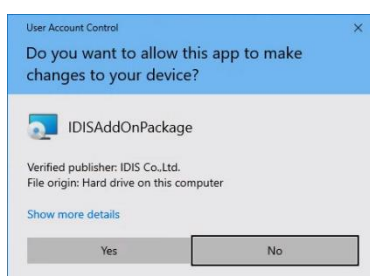


- (2) Launch the ISS Service Manager and ensure all services are running properly.

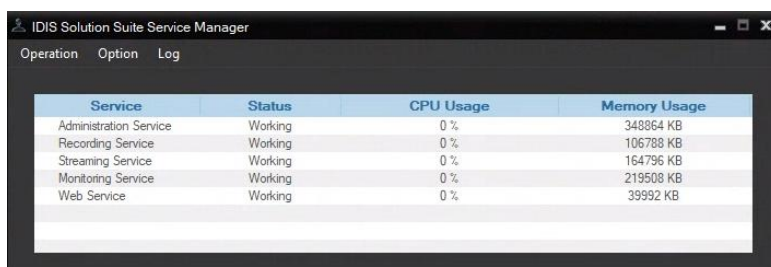


4.2 Installing the IDIS Solution Suite Add-on Package

- (1) Unzip the add-on package and run the SetupAddOn.exe file.



- (2) All ISS services will be temporarily shut down during the add-on package installation and will restart automatically afterward as follows.



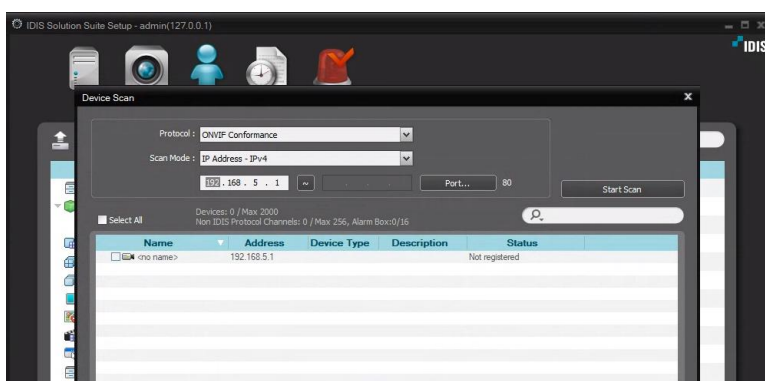
If the add-on package is installed correctly, the file {IDIS Solution Suite folder}\Server\profile\config\userconfig.conf will be created or updated to include the following information.

```
CF_USE_NETWORK_ANPR_DEVICE_FOR_RECORDER = 1
CF_USE_DEVICE_CUSTOM_ID = 1
```

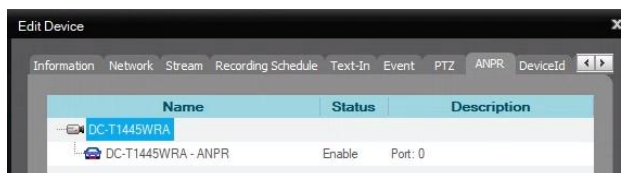
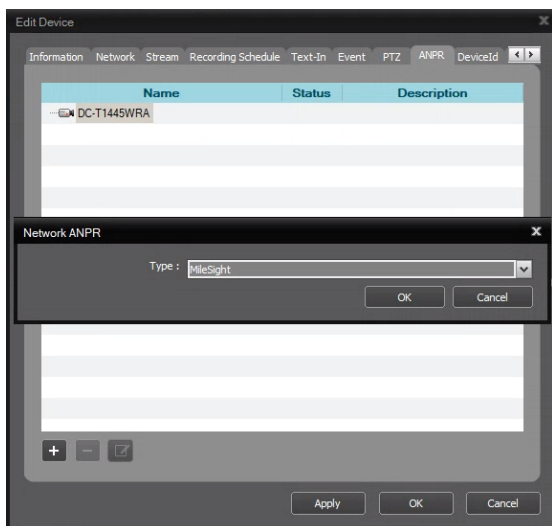
5 Setting the IDIS Solution Suite

5.1 Registering and Configuring the DC-T1445WRA Camera in ISS

- (1) Run the ISS Setup. Select the Device icon and register the DC-T1445WRA camera with ISS as an ONVIF device, as shown in the image below.



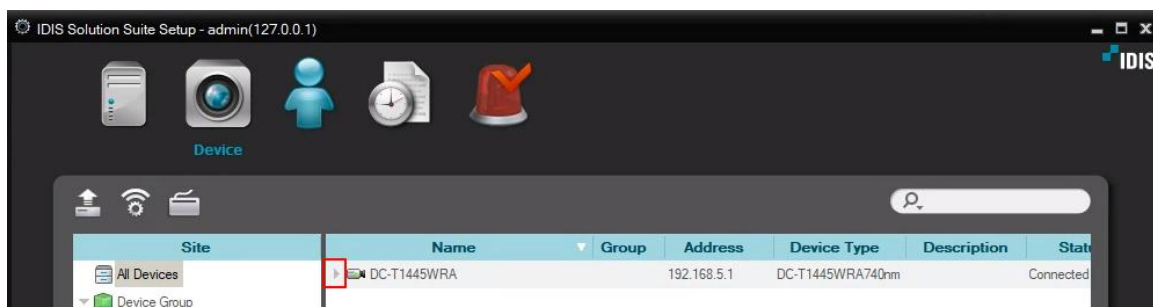
- (2) Once the camera is registered in ISS, double-click the registered IP camera and select the ANPR tab. Click the (+) button, select 'MileSight' as the type, and then click OK to confirm.



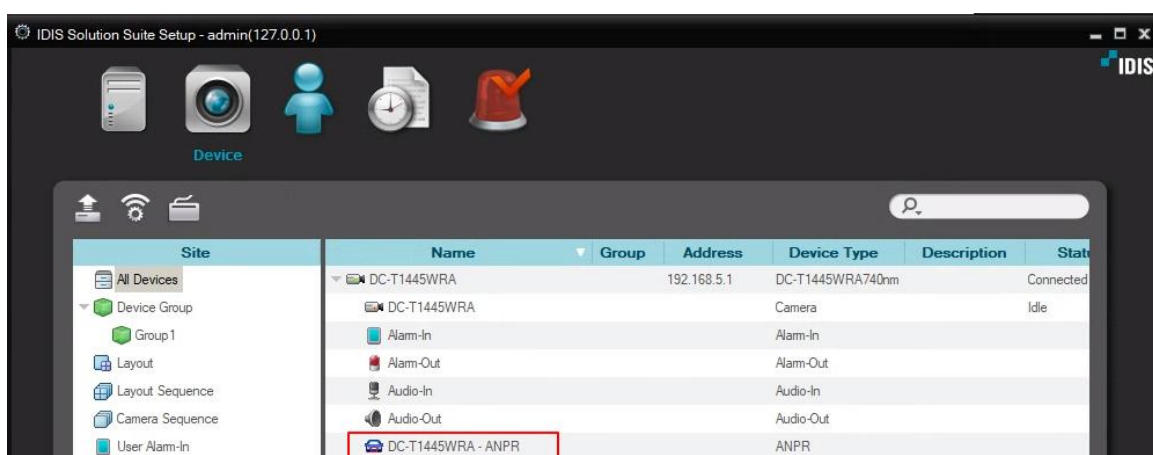
The default HTTP port for ANPR (LPR) is 80, and this will be displayed as '0' in the ANPR settings.

Note: If you wish to modify the HTTP service port used for LPR camera integration, refer to Appendix A.

- (3) From the ISS Setup > Device menu, click the arrow next to the camera to expand its settings.

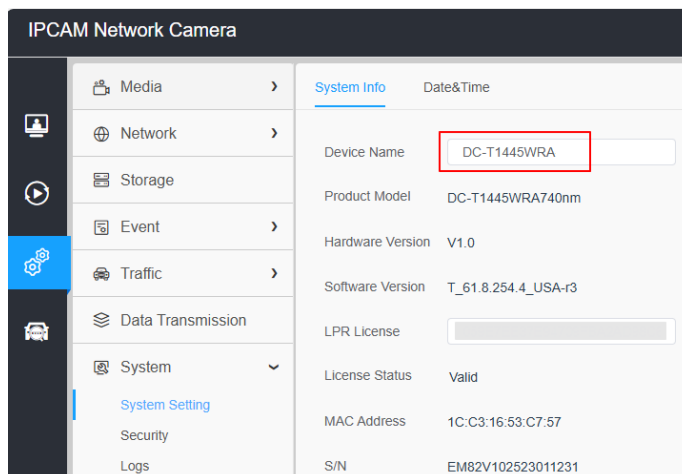
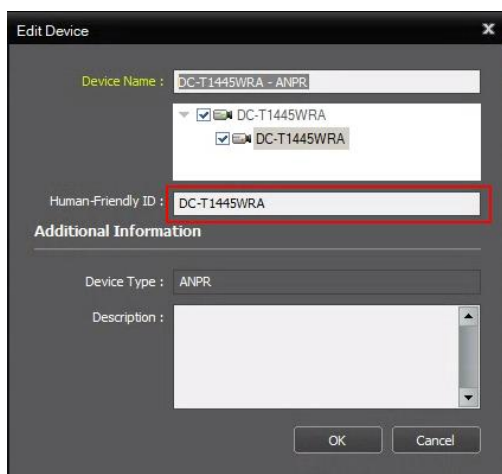


(4) Double-click the ANPR device module (e.g. DC-T1445WRA740nm – ANPR)



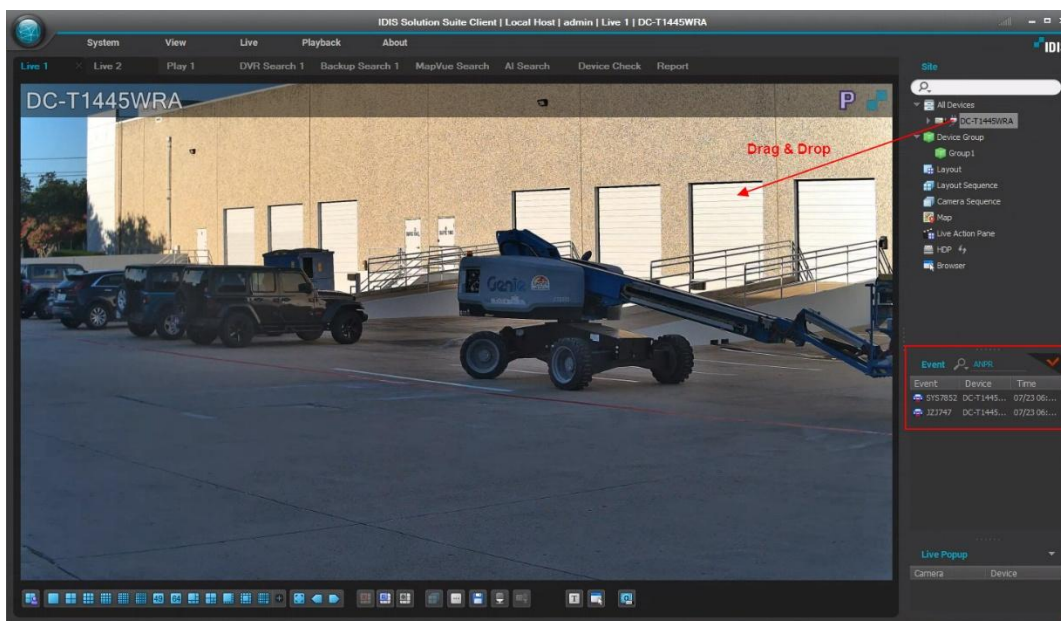
(5) Enter the camera's device name in the 'Human-Friendly ID' field.

Caution: 'Human-Friendly ID' must exactly match the camera's device name.



6 Using the DC-T1445WRA Camera with IDIS Solution Suite

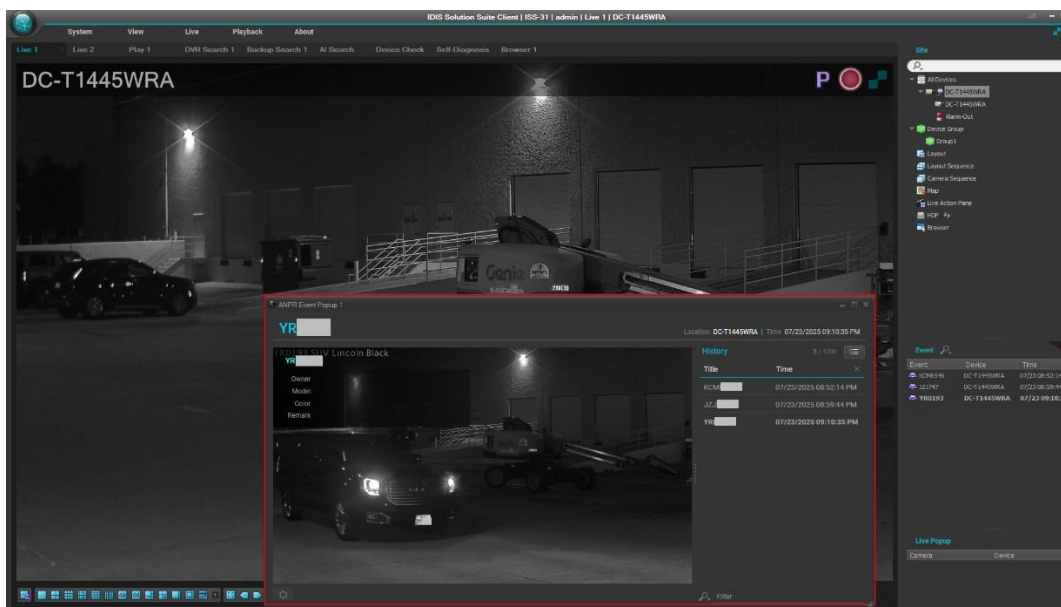
6.1 Live Video and Event Monitoring



In the ISS Client, users can monitor the camera's live video feed on the Live tab and view ANPR events in the event list, as shown in the image above.

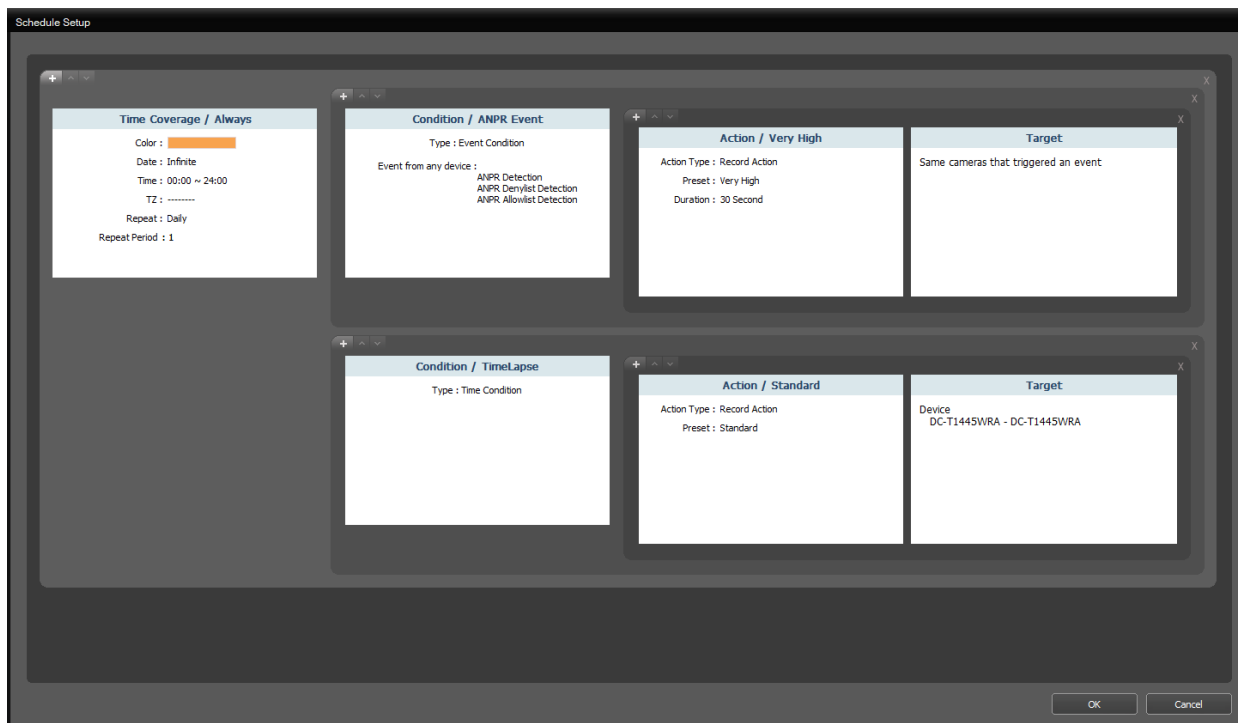
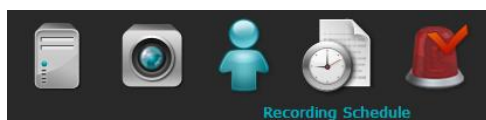
6.2 ANPR Event Pop-Up

The ANPR pop-up feature allows you to easily view license plate information, detection time, and a snapshot of the vehicle when a license plate event is detected as follows.



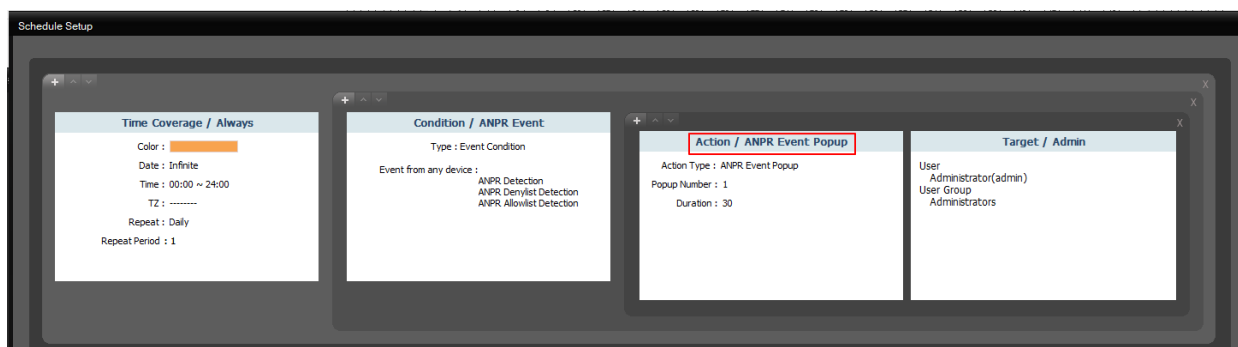
To use this feature, both recording and event settings must be configured.

- (1) Go to ISS Setup > Recording Schedule, and configure the camera's recording schedule. For example, set it as shown in the image below.



- (2) Go to ISS Setup > Event Management and configure the camera's event schedule, conditions, actions, and other relevant settings.

Please select 'ANPR Event Popup' from the list of event actions.



6.3 Event Acknowledgement

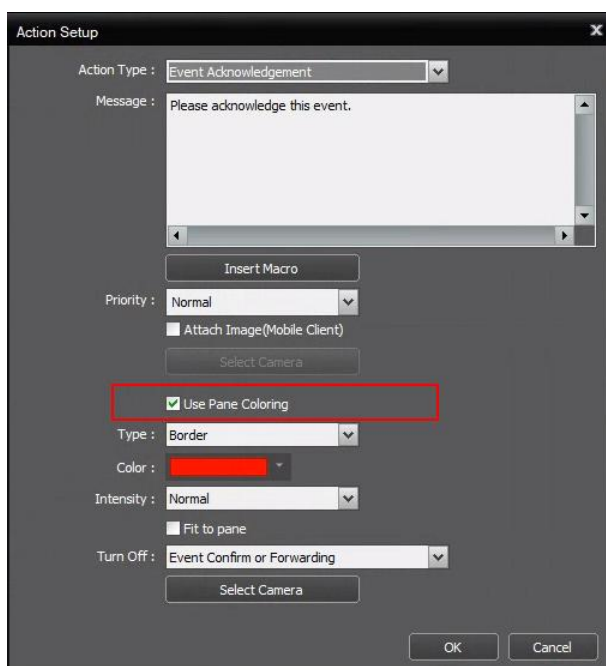
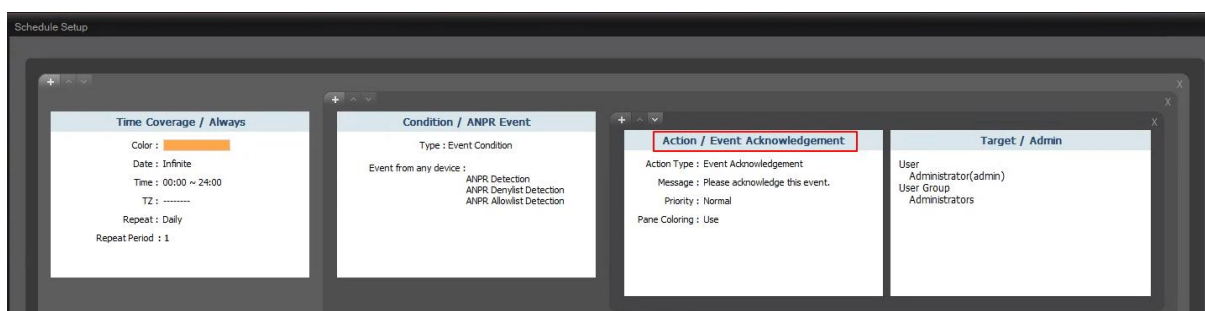
The Event Acknowledgement help for users to easily check the license plate detection events that require verification.

To use this feature efficiently, both recording and event settings must be configured.

- (1) Go to ISS Setup > Recording Schedule, and configure the camera's recording schedule. Please refer to step (1) in [Section 6.2](#).
- (2) Go to ISS Setup > Event Management and configure the camera's event schedule, conditions, actions, and other relevant settings.

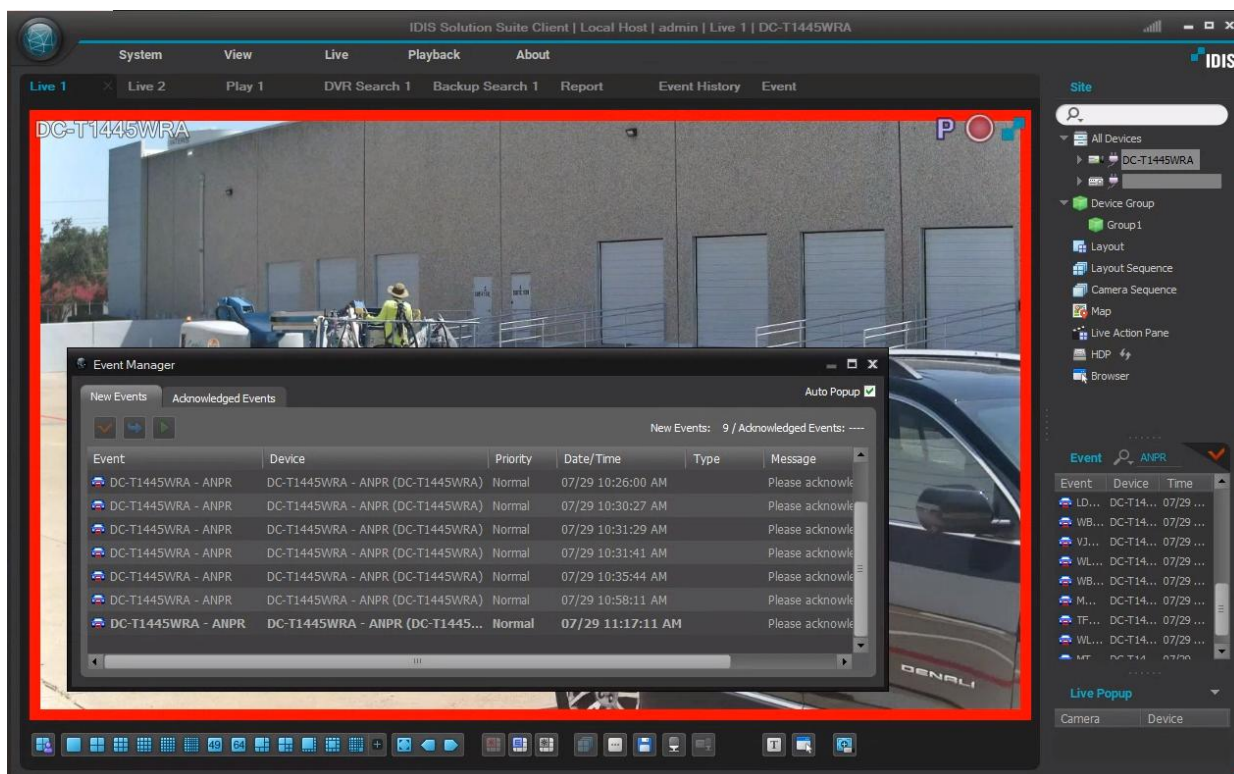
Please select 'Event Acknowledgement' from the list of event actions.

Users can highlight the camera pane where the event occurred by selecting the 'Use Pane Coloring' option.



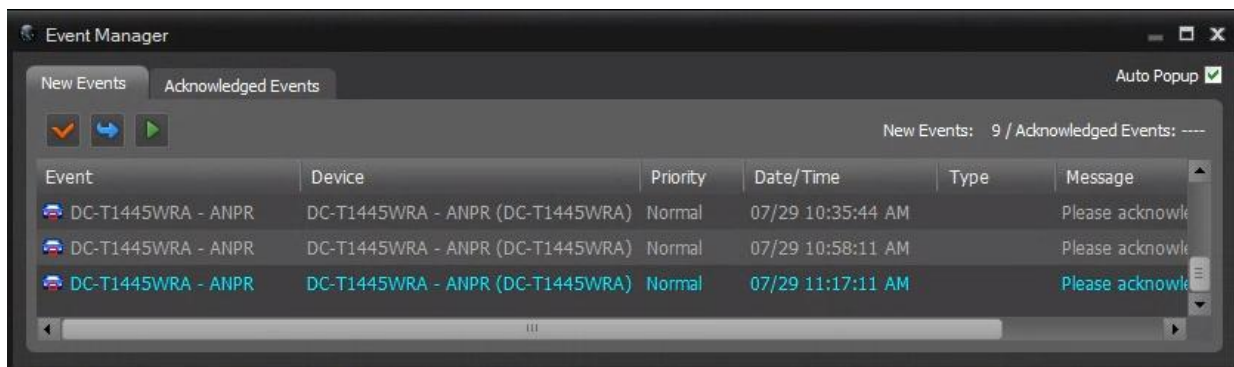
- (3) If an ANPR event is triggered, the Event Manager window will pop up, displaying the event details.

If the 'Use Pane Coloring' option is enabled, the corresponding camera pane will be highlighted by blinking the user-defined color along its border.



- (4) The user can select an event and confirm verification by clicking the  icon, or forward the event to another user by clicking the  icon.

Additionally, clicking the  icon allows immediate playback of the recorded footage associated with the event.

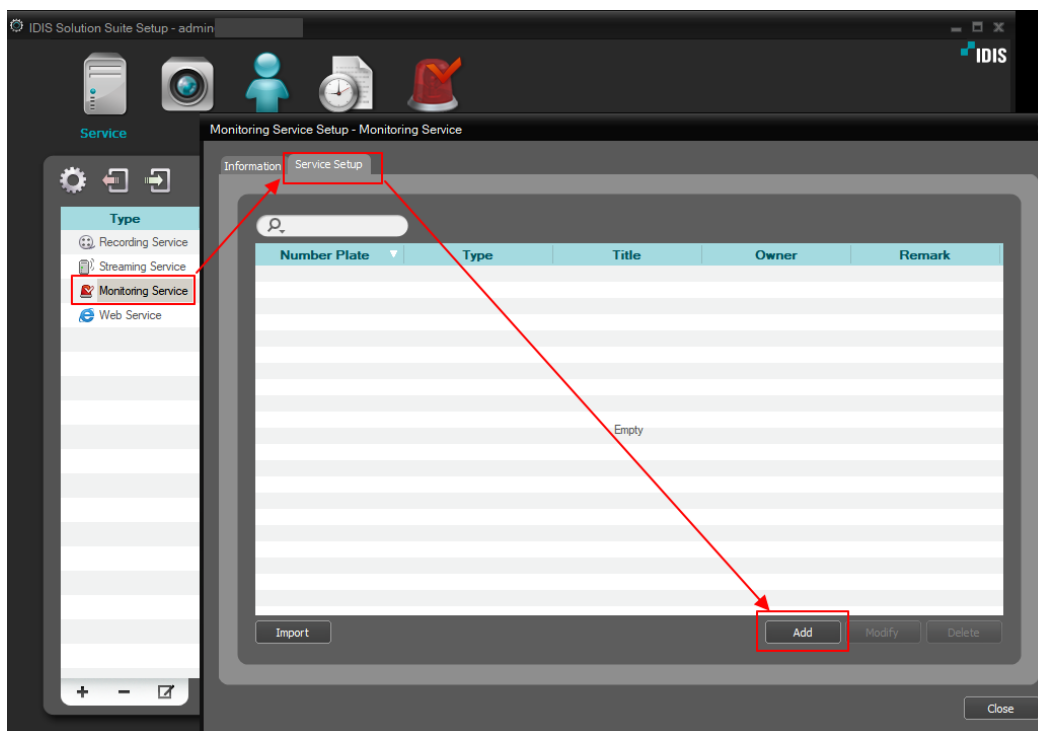


6.4 Setting Up License Plate Allow/Deny Lists

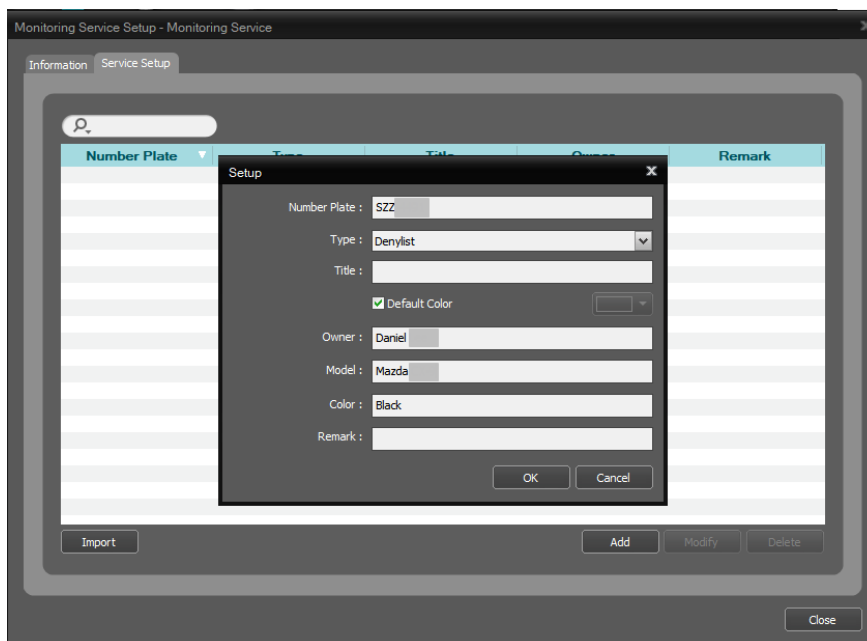
Users can create allow or deny lists for specific vehicle license plates in the ISS Monitoring Service using one of the following two methods:

6.4.1 Manually Creating a List in the ISS Monitoring Service Setup Window

- (1) Go to ISS Setup > Service. Double-click on Monitoring Service, then select Service Setup. Click the Add button.



(2) Enter the license plate information to be allowed or denied, then click OK to save the entry.



6.4.2 Importing the List File into the ISS Monitoring Service Setup Window

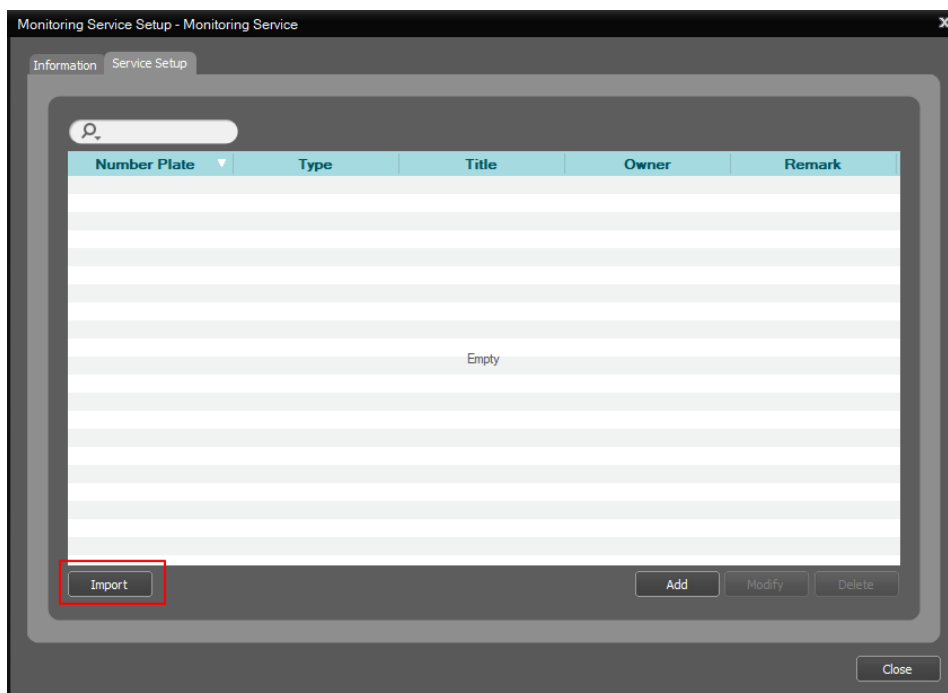
(1) If users want to upload multiple allowed and denied license plate information, create the .CSV file and fill in the list as shown in the image below.

- The .csv file must be saved in either 'CSV UTF-8 (Comma delimited)' or 'CSV (Comma delimited)' format.

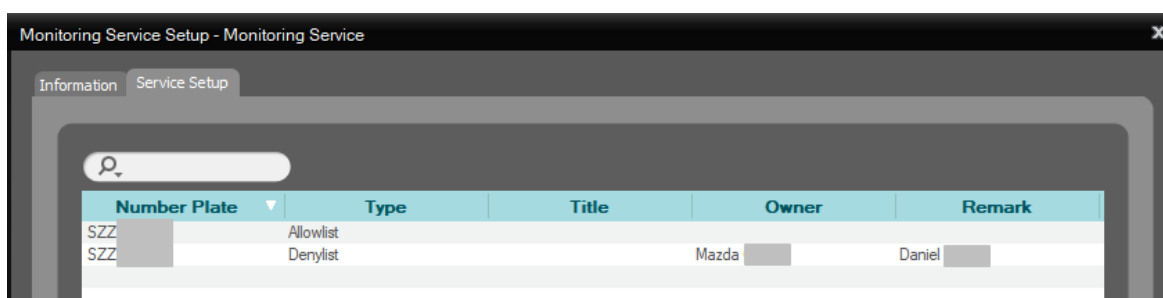
- Sample data format:

	A	B	C	D	E	F	G
1	np	type	title	owner	model	color	remark
2	SZZ	denylist		Daniel	Mazda	Black	
3	SZZ	allowlist					

- (2) Go to Service > ISS Monitoring Service > Service Setup, then click the Import button and upload the .csv file.

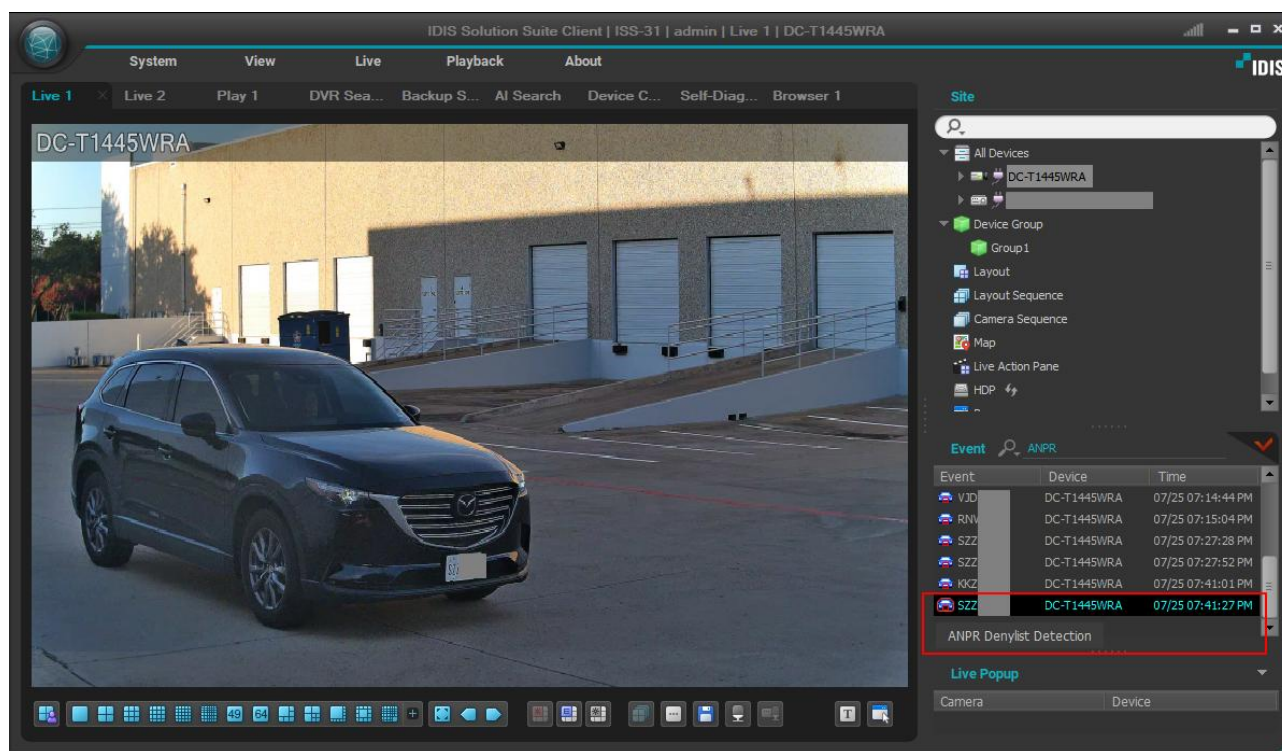


- (3) Check to ensure the list has been successfully updated.

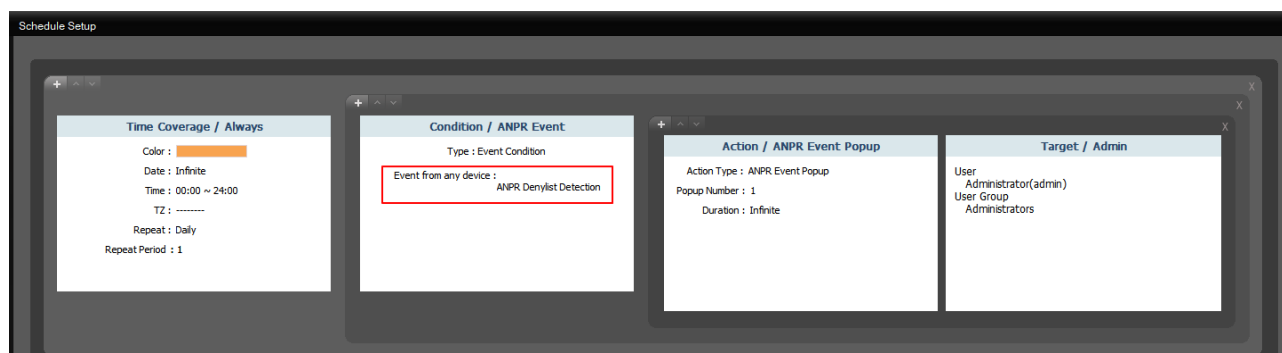


Caution: Do not include spaces, hyphens ('-'), or any special characters within the license plate number.

When a license plate is added to the Allowlist or Denylist, a separate event is generated upon detection. This event can then be used to trigger the desired action.



Below is an example of how event management is handled for ANPR Denylist detection.

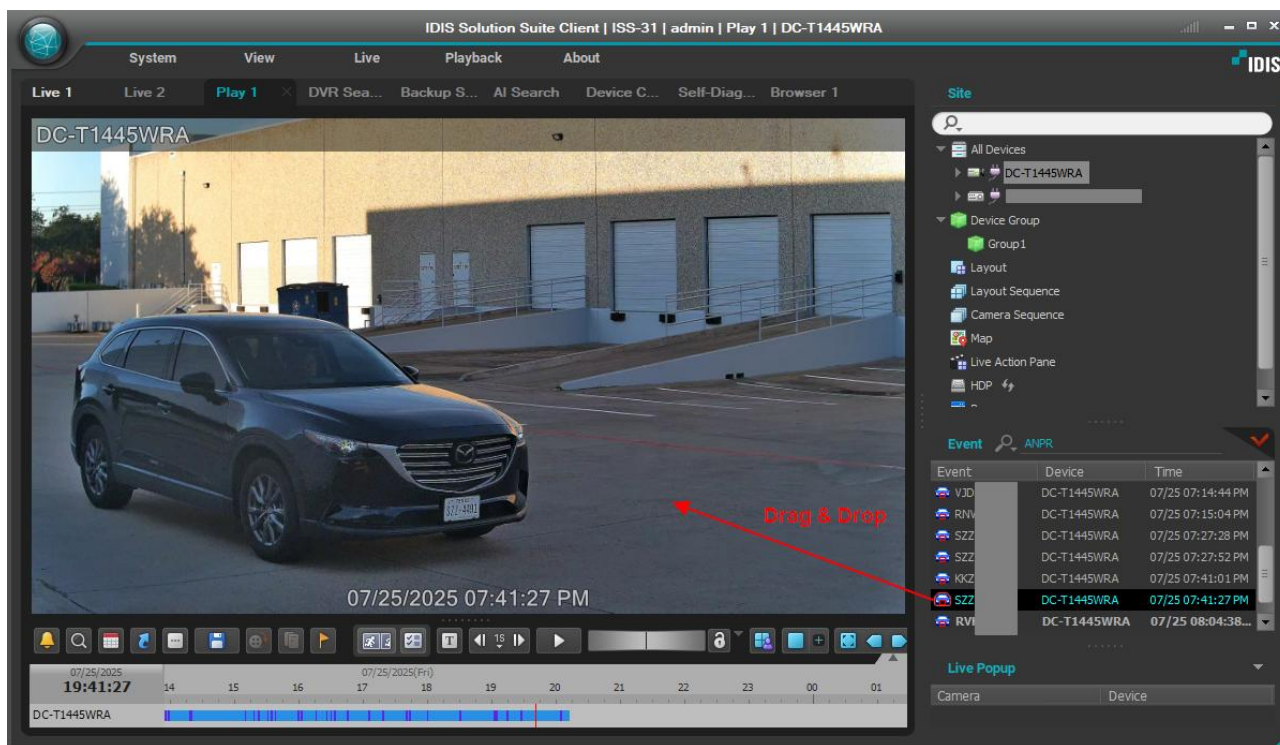


6.5 Searching for Events and Playing Back Recorded Video

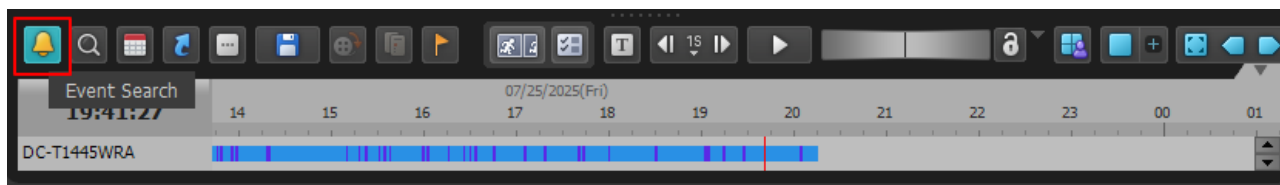
If video is recorded in conjunction with a license plate detection event in the ISS Recording Service, the event can be searched and the video played back using several methods, as outlined below.

6.5.1 Searching and Playing Recorded Video from the Event List

In the ISS Play tab, users can select a specific event from the Event List and drag it to the playback pane to locate and play the recorded video from the time the event occurred.

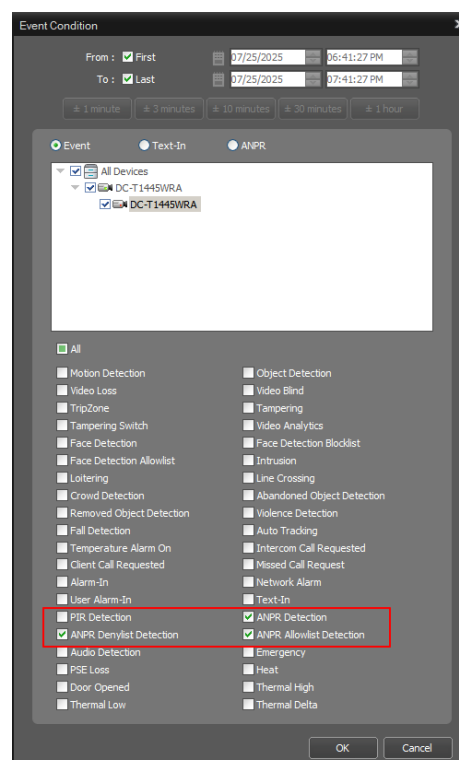


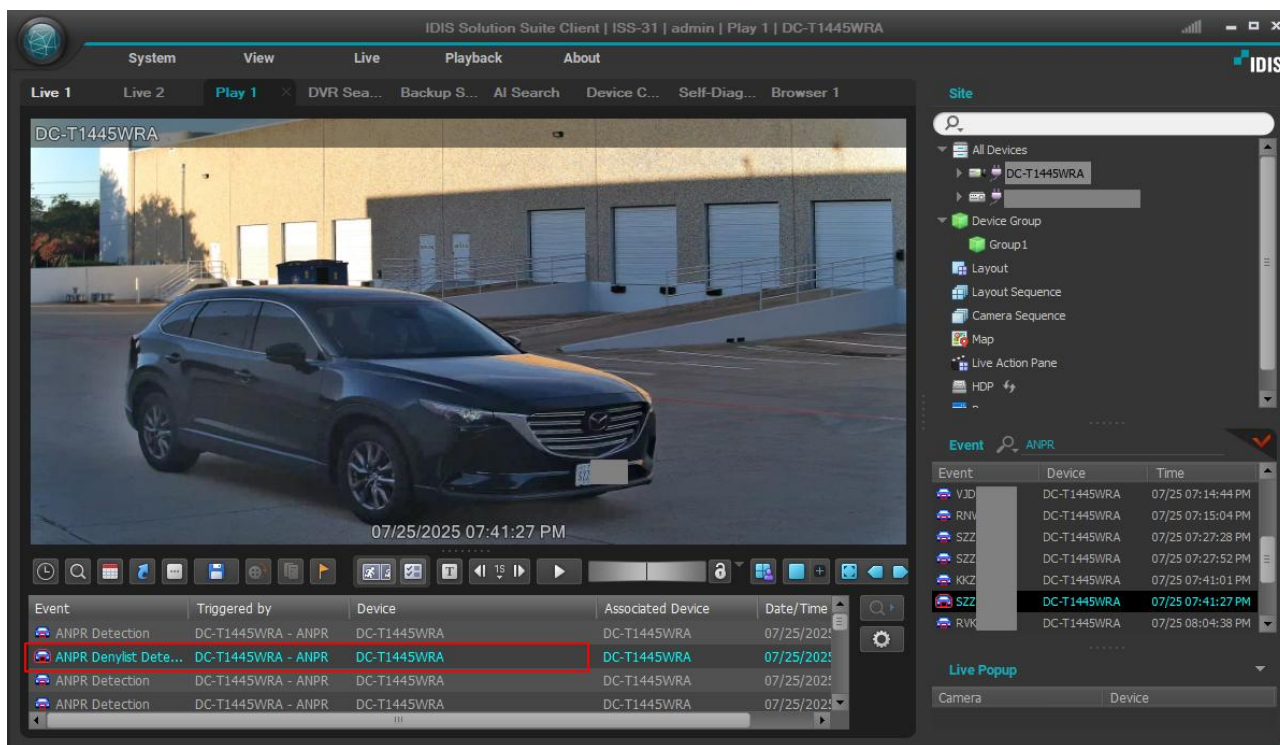
6.5.2 Searching and Playing Recorded Video Using the Event Search Filter



By following the instructions below, users can select an event type from the Event Search menu, then search for and play recorded data by choosing a specific event from the filtered list.

- (1) Drag and drop the camera into the pane within the ISS Play tab.
- (2) Click the Event Search icon.
- (3) Select the 'Event' option.
- (4) Select the search time, camera, and an ANPR-related event type, such as ANPR Detection, ANPR Denylist Detection, or ANPR Allowlist Detection.
- (5) Double-click the desired event in the searched Event List to play the recorded data from the time the event was detected.

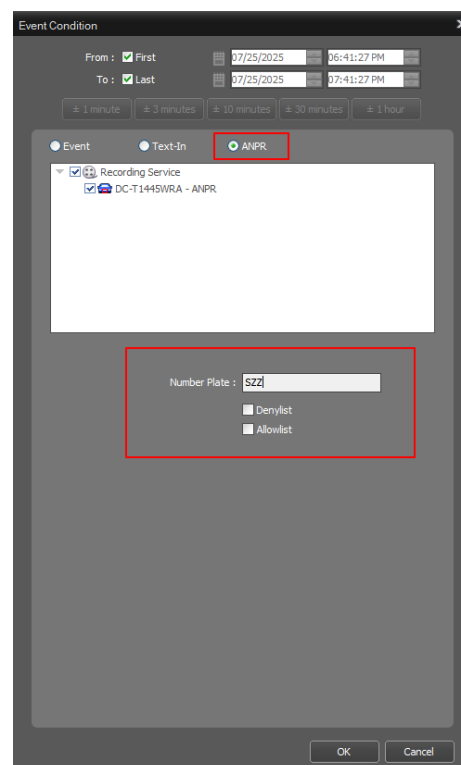


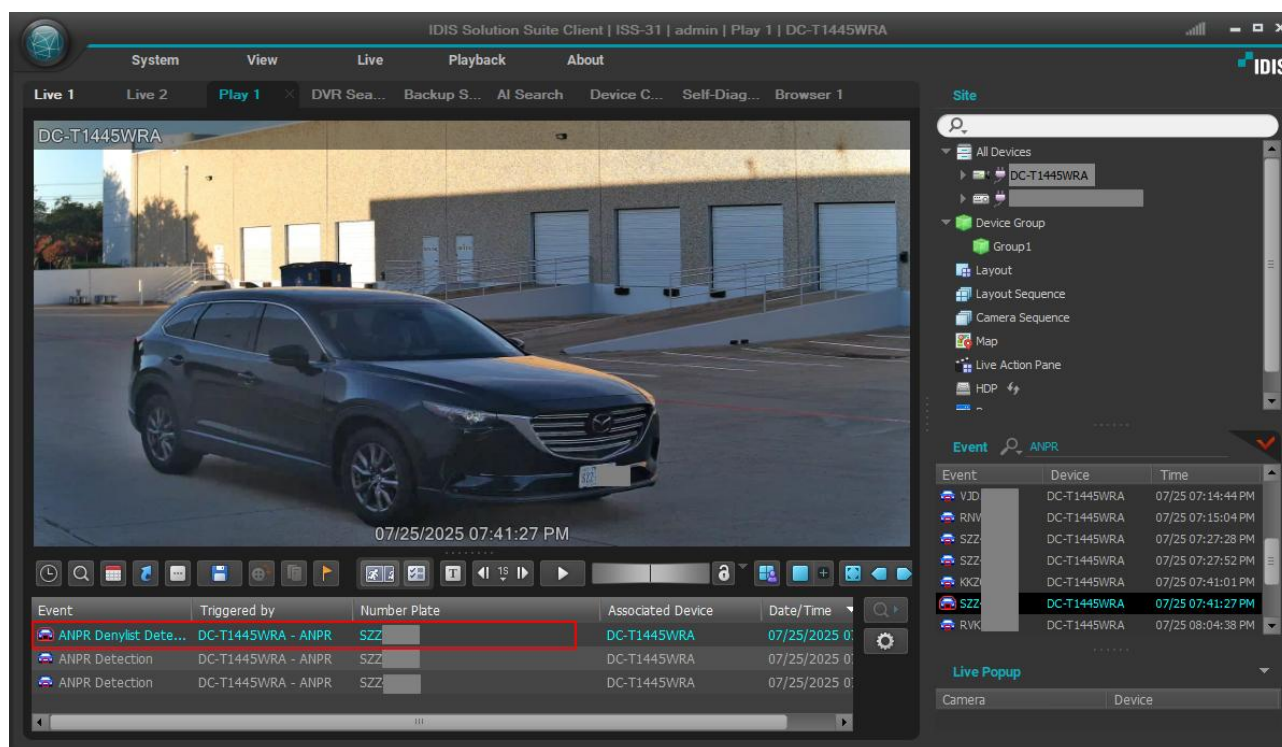


6.5.3 Searching and Playing Recorded Video Using the ANPR Search Option

By following the instructions below and using the ANPR Search option, users can enter specific license plate information to display only the events where that plate was detected, making it easy to search for and play recorded videos of the corresponding vehicle.

- (1) Drag and drop the camera into the pane within the ISS Play tab.
- (2) Click the Event Search icon.
- (3) Select the time and the 'ANPR' option.
- (4) Enter the license plate number you are searching for. Partial plate numbers can also be entered. If you select 'Denylist' or 'Allowlist', the search will be limited to plate numbers registered in the selected list.
- (5) Double-click the desired event in the searched Event List to play the recorded data from the time the event was detected.

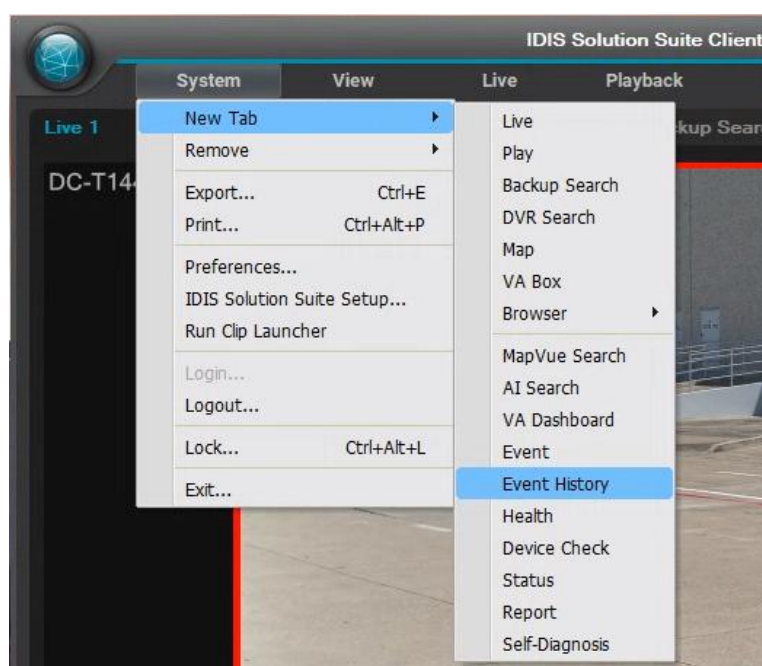




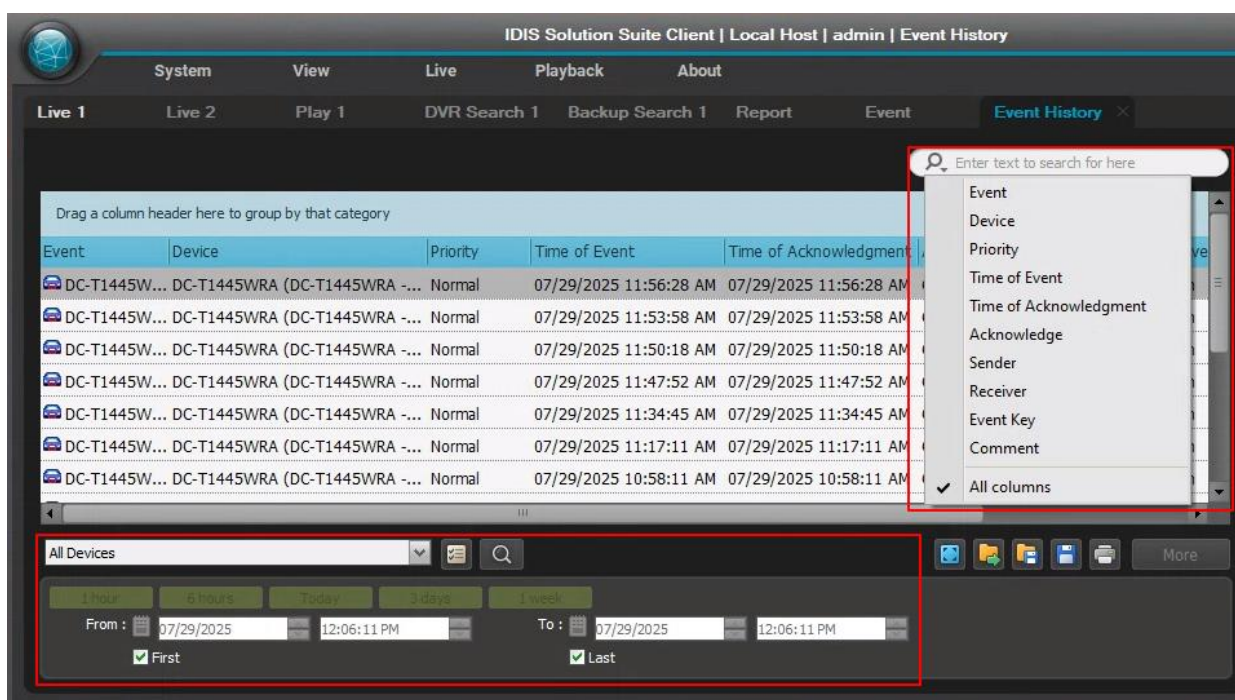
6.5.4 Searching and Playing Recorded Video Using the Event History Tab

If Event Acknowledgment, as described in [Section 6.3](#), is set up, users can use the Event History tab to quickly identify license plate detection events that have been verified or require verification, and efficiently review the corresponding recorded footage by following the instructions below.

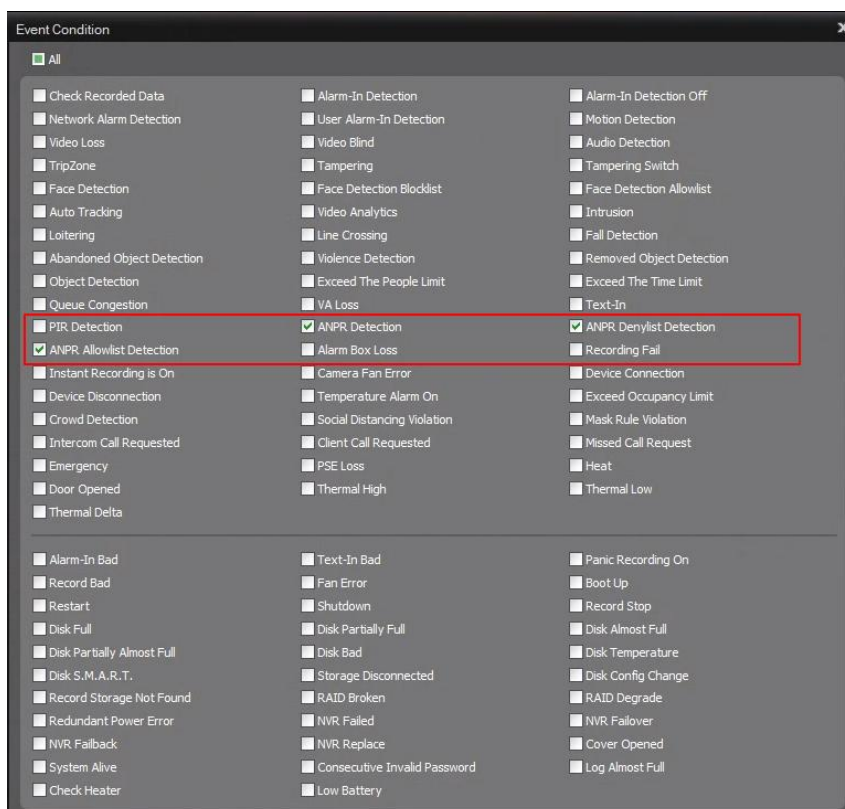
- (1) If the Event History tab is already visible in the ISS Client, skip this step and proceed to the next one. Otherwise, navigate to ISS Client > System > New Tab > Event History to enable it.



- (2) Go to ISS Client > Event History tab and review the event history. Users can search for specific events by selecting a camera, entering text, or specifying a time range.



Additionally, events can be filtered by clicking the Event Condition (📋) icon.

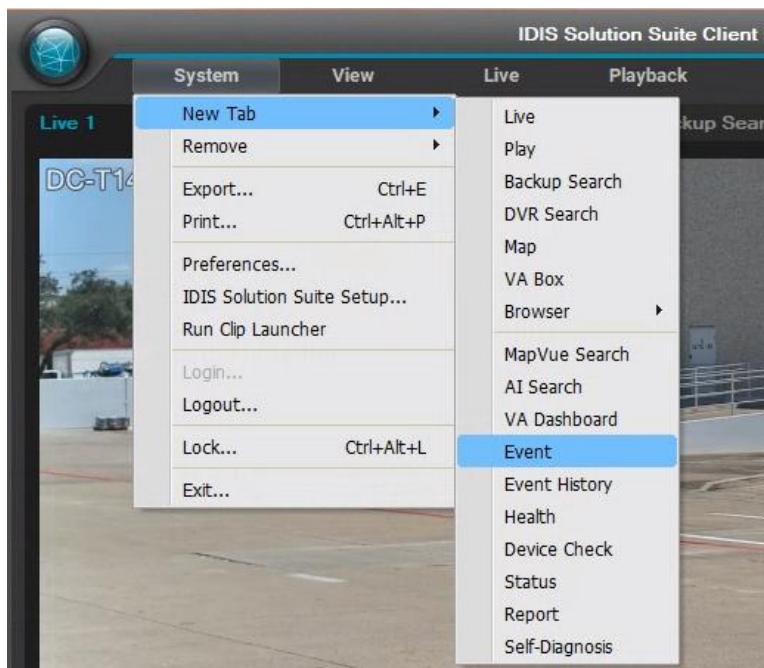


- (3) Double-click the desired event to review the recorded footage. The footage will then be displayed in the Play tab.

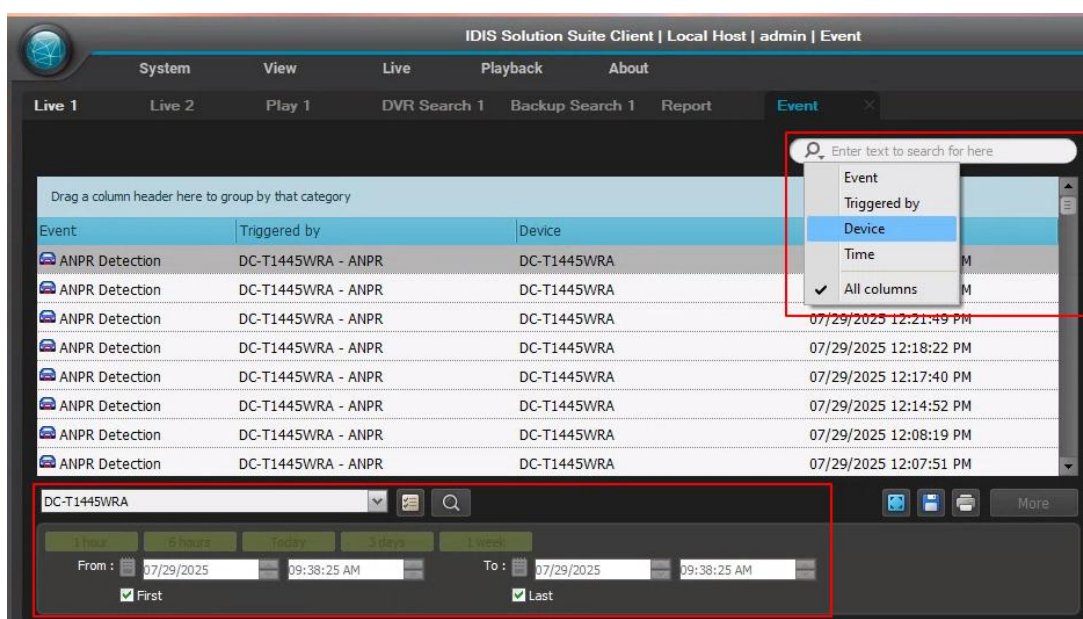
6.5.5 Searching and Playing Recorded Video Using the Event Tab

Users can use the Event tab to easily view events and review the corresponding recorded footage by following the instructions below.

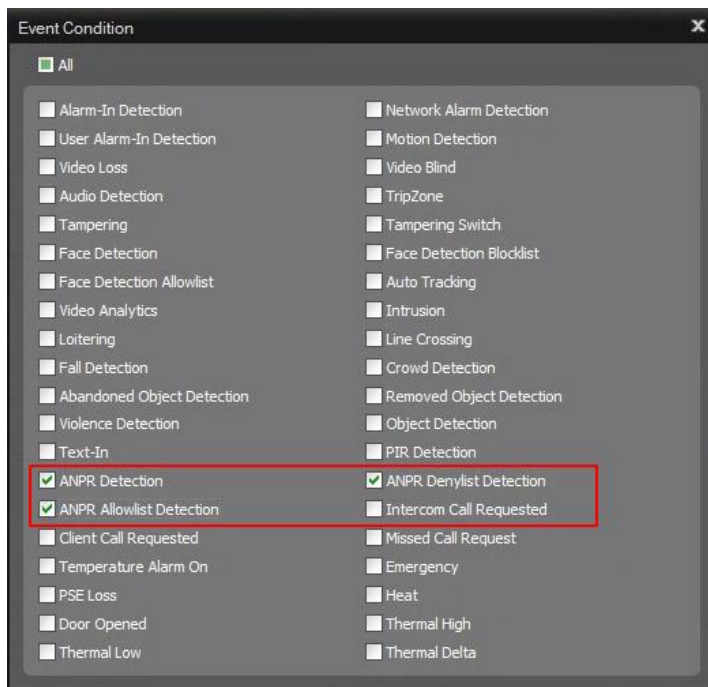
- (1) If the Event tab is already visible in the ISS Client, skip this step and proceed to the next one. Otherwise, navigate to ISS Client > System > New Tab > Event to enable it.



- (2) Go to ISS Client > Event tab and review the event history. Users can search for specific events by selecting a camera, entering text, or specifying a time range.



Additionally, events can be filtered by clicking the Event Condition (🔍) icon.



- (3) Double-click the desired event to review the recorded footage. The footage will then be displayed in the Play tab.

7 Troubleshooting

7.1 The ANPR event is not recognized in ISS, even though all configurations appear to be correct

In this case, port 80, which is used for event communication between the DC-T1445WRA camera and ISS, is likely being used by another application.

Please refer to Appendix A and change the port number to something like 81, then test the operation.

If you change the port number to 81 in ISS, make sure to update the camera's data transmission settings accordingly. For example, use:

- `http://{ISS IP address}:81/post`

Appendix A. Modifying the HTTP Port for License Plate Event Integration

To change the HTTP service port for LPR camera integration, follow the steps below.

- (1) Go to the '{IDIS Solution Suite folder}\server\plugin\setup' folder on the server where the ISS Monitoring service is installed.
- (2) Create the MileSight_setup.conf file and add the following configuration.

```
<setup>
<port>80</port>
</setup>
```

(3) Restart the ISS services.

For example, if the service port is configured to 81, the ISS listening port can be verified using the netstat command, as shown below.

```
C:\Users\Whljjung>netstat -na | find "81"
TCP    0.0.0.0:81          0.0.0.0:0          LISTENING
TCP    10.0.124.64:49818  142.250.198.10:443 CLOSE_WAIT
TCP    10.0.124.64:50405  20.198.2.181:443   ESTABLISHED
TCP    10.0.124.64:50481  52.113.194.132:443 ESTABLISHED
TCP    127.0.0.1:50080    127.0.0.1:50081    ESTABLISHED
TCP    127.0.0.1:50081    127.0.0.1:50080    ESTABLISHED
TCP    127.0.0.1:50581    127.0.0.1:50582    ESTABLISHED
TCP    127.0.0.1:50582    127.0.0.1:50581    ESTABLISHED
```

Version History

Version	Revision Date	Remarks
1.0.4	Sep. 22. 2025	Added: Chapter 7
1.0.3	Jul. 30. 2025	Added: IP address information of the camera Added: Event History Tab, Event Tab Removed: IDIS Web Service
1.0.0	Jul. 23. 2025	Initial Release