Compatibility between Network Optix and Milesight Camera

Camera Version	XX.7.0.78-r1	Update	2021.8.27

Part I HTTP Notification between Network Optix and Milesight VCA

1. What is Milesight VCA

VCA is short for Video Content Analysis. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 8 detection modes which are divided into basic function and advanced function, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes. There are 8 detection modes of Milesight VCA as follow.

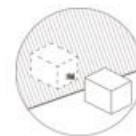Region Entrance   Region Exiting   Advanced Motion Detection   Tamper Detection   Object Removed
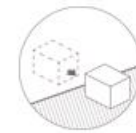
Line Crossing   Loitering   Human Detection   People Counting   Object Left

Milesight VCA can work with some third-party VMS like Network Optix by using the HTTP Notification. But how to do the settings? Here we will take Region Entrance as an example.

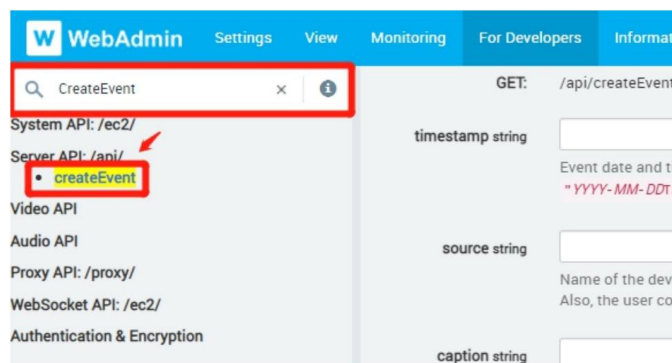## 2. How to set up the HTTP Notification between Network Optix and Milesight VCA

Step 1: Adding Milesight Camera in Nx Witness.
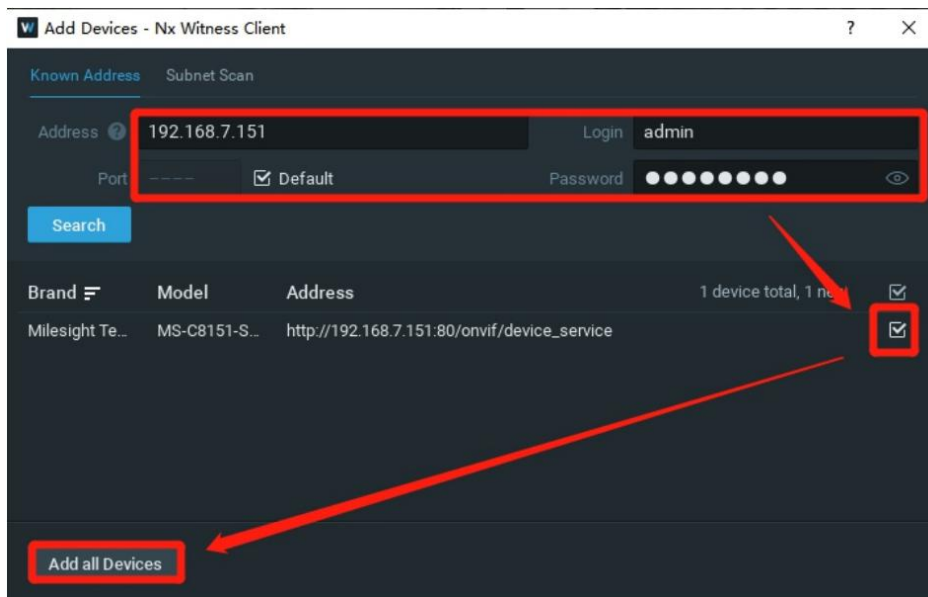
Step 2: Open Nx Witness Server Web Client, click the tag "**For Developers**" after logging into Web Client and then open "**API Testing Tools(new)**".
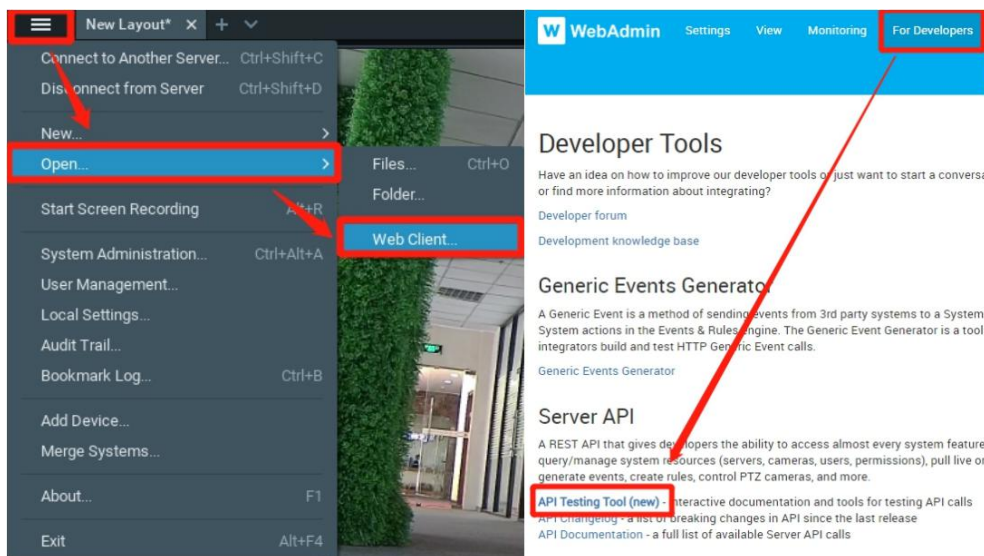
Search "**CreateEvent**" to quickly find the API we want.

Step 3: The tool will automatically form Requesting URL after you fill in the content. We use three of these commonly used parameters. Fill in the information you want to send to Nx Witness when the Region Entrance is triggered.

Copy the Requesting URL.

Step 4: Open web page of the camera. Enable *HTTP Notification* in *Alarm Action*. Select *Get* in *HTTP Method* and choose one of the three URLs to enable. Set Trigger Interval from 0s to 900s. Paste the URL you just copied from API test tool in Nx Witness Server Web Client.

Reform the URL:

http://192.168.7.33:7001/api/createEvent?source=MS-C2961-REOPB&caption=Region%20Entrance&description=Someone%20in%20the%20zone


Note: Do not forget to finish User Name and Password (Nx Witness Server's User Name and Password) and click Save.

Result: Once Region Entrance is triggered, Nx Witness will show the Notification.

Part Ⅱ HTTP Notification between Network Optix and Milesight LPR

Step1: Log in webpage, and go to**"LPR "→ "Settings".** Check the checkbox "**Enable License Plate Recognition**", you can draw the screen to select area interested.
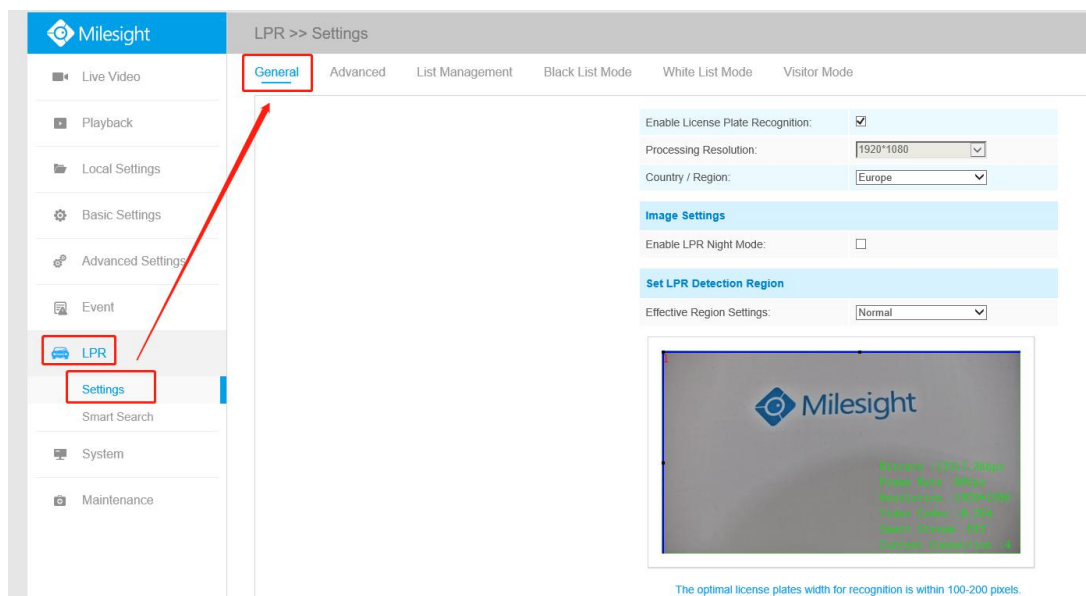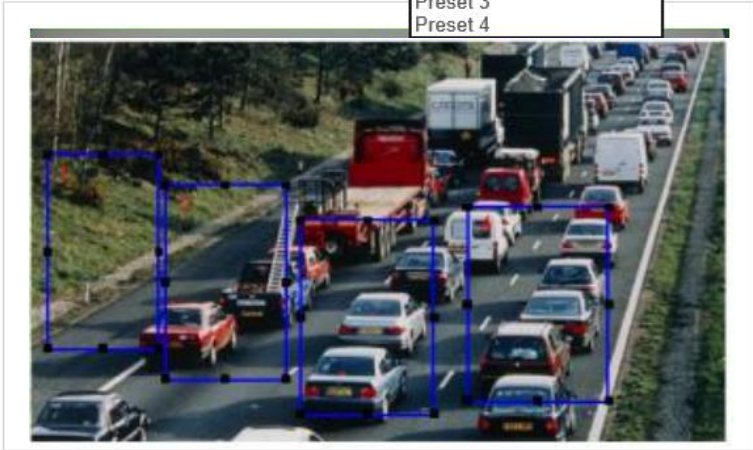

You can set up to 4 ROI areas by drawing the screen. If you choose **Normal Mode**, it supports configuring the LPR detection regions for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring

different LPR detection regions for different PTZ presets (Only support Preset 1~4 so far).
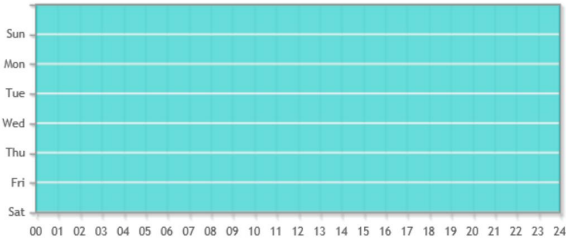
Step2: Schedule Settings. You can draw the schedule by clicking "**Edit**" button. And then click **"Save"** or **"Reset"** after finishing setting. You also can copy the settings to other channels.

Step3: Detection Settings.

[Detection Trigger]: If you choose "**Always**", camera will always detect the license plate. If you choose "**Alarm input**", camera will only detect the license plate during Alarm Input is being triggered.

[Confidence Level]: You can set the confidence level from 1 to 10. When the confidence level of the license plate is higher than the set confidence level, it will push the license plate image to the logs interface.

[Repeat Plate Checktime]: Set the time interval for repeatedly reading license plates to effectively avoid duplicate identification of parking vehicles.

[Feature Identification]: Check **Direction, Vehicle Type** or **All** to enable Features Identification, it will display the corresponding information on the logs interface.

Step4: Enable LPR Message Post, Select post type as **HTTP**, then input the HTTP Notification URL、User Name and Password.
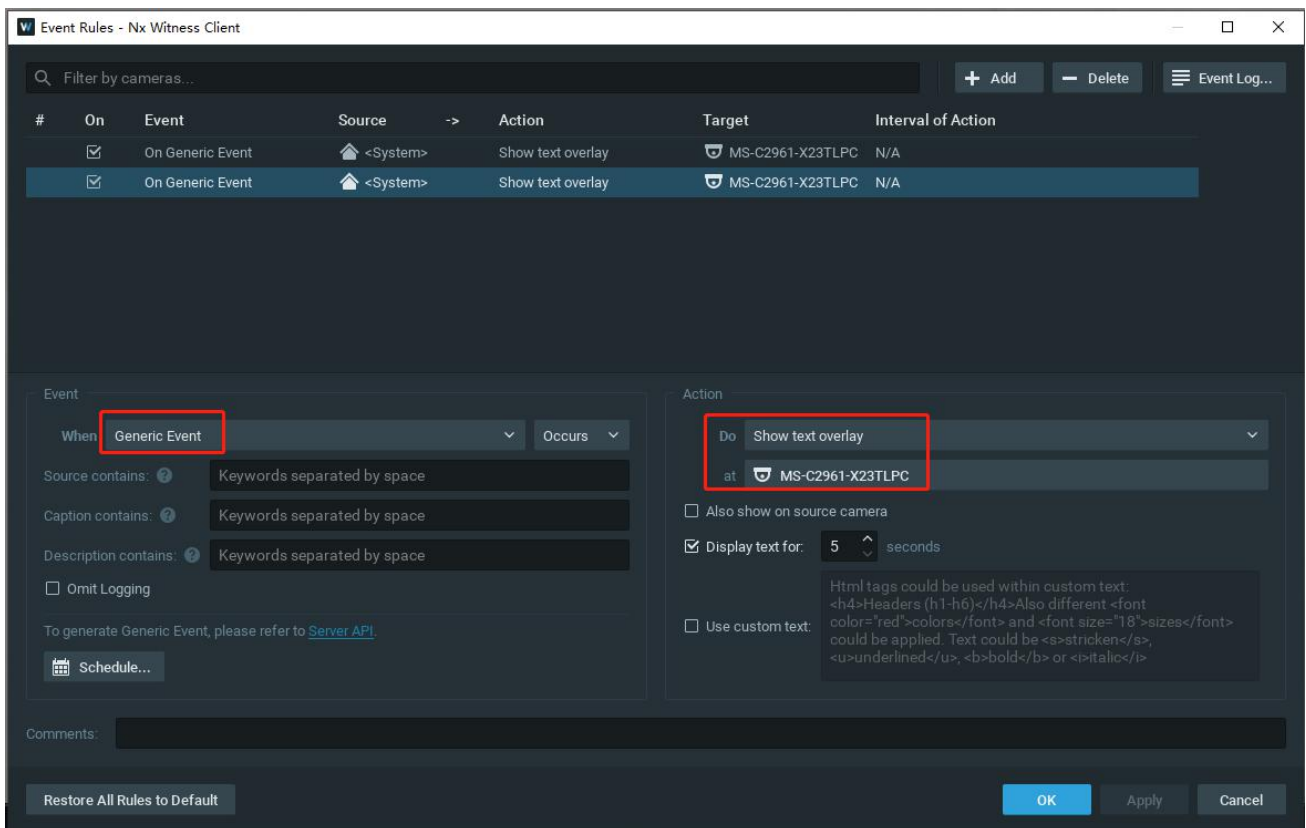
● You must be carefully to put in correct HTTP Notification URL from API test tool in Nx Witness Server Web Client :

https://192.168.9.120:7001/api/createEvent?source=MS-2961-X23TLPC&caption=LPR&description=Number

（Refer to page 3）

Step5: After finishing the settings at camera's side, log in NX VMS and create the Event as "**Generic Event**", then set the Action as **"Show text overlay"** .
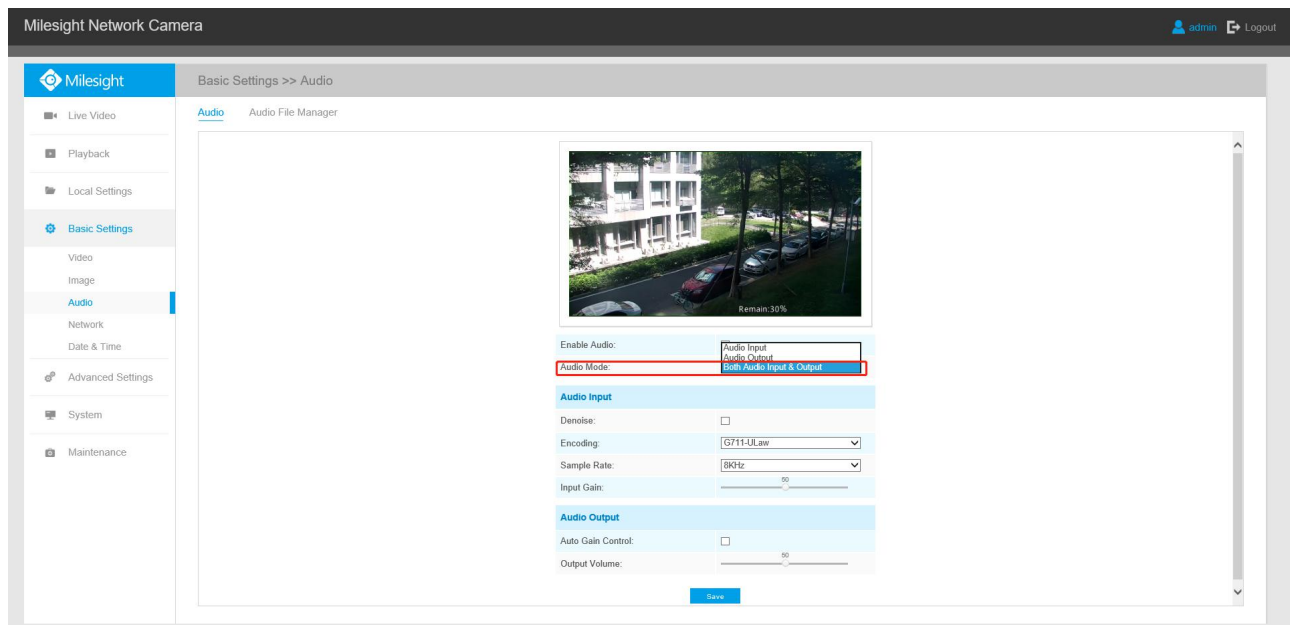

Step6: After setting successfully, if the license plate is detected, you will see the HTTP Notification showed as the picture as follow on the live video page in Network Optix.
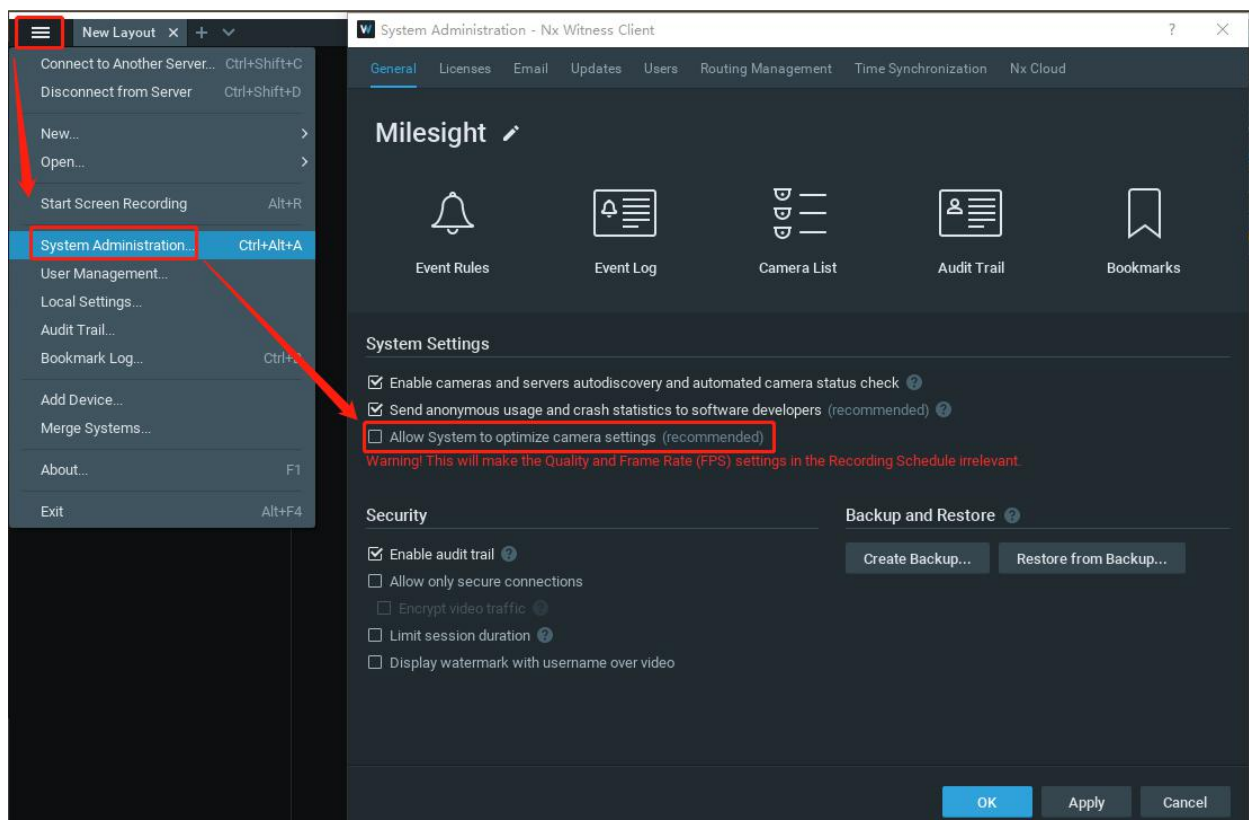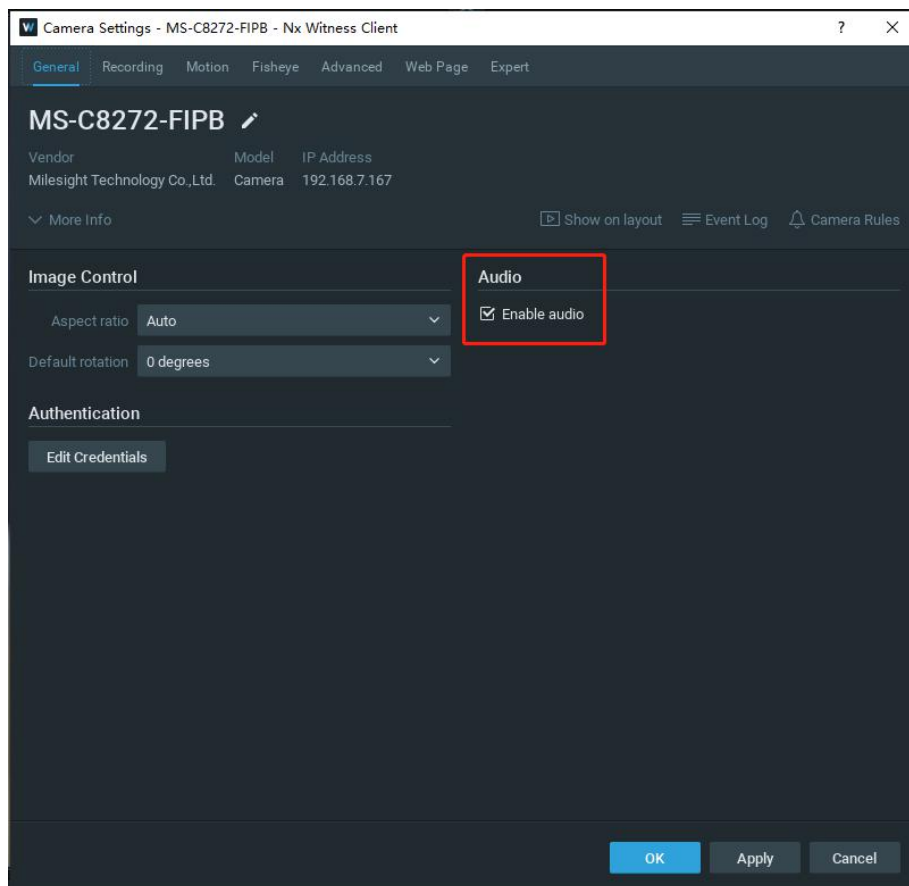
Part Ⅲ ONVIF two-way audio

Step1: Enable both audio input and output on camera web.

Step2: Before adding camera, need to cancel "Allow System to optimize camera settings" firstly.

Step2: Enable audio when adding camera to Network Optix.

Step3: Hold down the button in the lower right corner of the live view to speak.

END