CV4IP LAN Port Documentation

This documentation is for the use of the LAN port of the CheckVideo HD/SD Analytics Gateway for third-party IP cameras.

i. The second port, or LAN port, of the gateway can provide a separate network controlled by the gateway and used ONLY by the gateway. We later reference this separation of the network as "off-network", meaning that the LAN of the gateway has no other connection to the internet.

ii. The LAN port of the gateway can be used to keep the third party, possibly more vulnerable, cameras off your internal network. The gateway would be able to use those cameras but other use of the cameras would be restricted.

iii. Due to the segregation of the cameras from the internal network and internet, camera generated timestamps are not allowed. Please see the camera manufacture documentation for help on how to disable the timestamp.

iv. Static IP addressing of cameras on the second port, or LAN, is allowed but it is recommended that you force the cameras to be DHCP and allow the gateway to control the IP addressing. If you decide that you want your cameras setup as static IPs, we have limited the low end of the DHCP pool to allow the first 18 addresses greater than .1 and less that .20 to be static addresses. See below for steps on how to determine the DHCP pool addressing schema.

Step-by-Step Connection Instructions

1. Starting with the gateway powered off, connect an ethernet cable from an off-network switch, to the LAN port of the gateway.
2. Verify that DHCP is used for IP addressing and connect these cameras to the switch. At this time, the cameras will not yet have IP addresses.
3. Power on the gateway. Shortly after booting up, the cameras with receive IP addresses from the gateway.
4. Go to the CheckVideo portal, via portal.checkvideo.net, and login to your account.
5. Navigate to Devices > Configure IP Gateway.
6. On this page, select the IP gateway to pair to these cameras and click "Enter ONVIF Credentials".
7. Assuming that all of your cameras have the same ONVIF username and password, you will only have to fill out this area once. Once you have entered the username and password, Click "Discover IP Cameras".
8. The next page may spin for a few minutes as the gateway searches, via ONVIF, for cameras on both your internal network and the segregated network (WAN and LAN ports of the gateway).
9. When the page populates with cameras available to be added, usually, ones that have an image (other than a blue thumbnail), were provided the correct ONVIF credentials.
10. Using your mouse, hover over the outer left and right of the thumbnails to scroll through the cameras. The cameras with a 192.168.150.X or 10.168.150.X IP addresses are the cameras on the separated network. When you find a camera that you wish to add, click the thumbnail. It will then show all of the identifying information for that camera.
11. Click the "Assign" button to confirm the username, password, RTSP url, alternate resolution (choose 240p or 480p), and alternate framerate (leave this at 10) of the camera.
12. Once confirmed, Click the "Verify" button to finish the add process. See the Adding cameras to CV4IP gateways.pdf for more troubleshooting steps.
13. Repeat steps 10-12 to add additional cameras.
14. Once all cameras have been successfully added to the gateway, navigate to Devices > Configure Device to configure the camera for analytics and notifications.