

Alnet Integration Note v1.0.0



Chapter 1

Introduction

1.1 Prerequisites

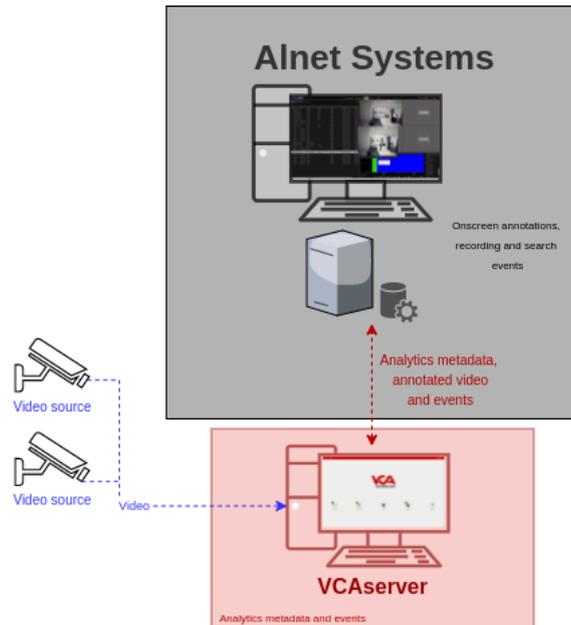
- VCAserver version 1.4 or greater.
- Net Professional service application.
- CMS 4 Professional Client application.

1.2 Supported Features

- Metadata integration (using the VCA REST API).
- Annotated RTSP.

1.3 Architecture

Alnet will connect to the VCA channels to consume the metadata provided. The integration does not require the configuration of VCAserver actions to send events to the VMS. The only requirement is that VCA rules are defined.



1.4 VCAserver Configuration

1.4.1 Confirming the RTSP port used for transmitting video footage

Check, and change if required, the RTSP port used by VCA for external connections to the channels within the VCA service.

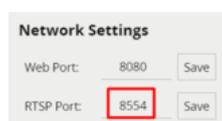
1. From the main screen, click the **system cog** in the top right.



2. Then, click on **System**.



3. In **Network Settings**, you can see the RTSP port used by the VCAserver to send the RTSP stream of its channels. Change it if necessary and click **Save**.



Note: The syntax for connecting to these channels is: `rtsp://<device_ip>:<RTSP_port>/channels/<chan`

Example: `rtsp://192.168.1.10:8554/channels/27`.

1.4.2 Creating a Channel

Configure the VCAserver as required with the appropriate channel and logical rules. A basic setup is detailed below as an example:

1. Configure a source to connect to a camera.

Note: the recommended settings for the camera stream to VCA is a maximum resolution of D1 (640 x 480) with a frame rate of 15 frames per second. A lower resolution and frame rate will reduce the analytic accuracy, a higher resolution and frame rate will result in high CPU usage and can reduce analytical accuracy.

2. Configure a **zone** for the channel.
3. Configure **rules or filters** to trigger an event on object detection in the zone.

1436	2021-06-21 13:41:01	Dwell	dwell
1434	2021-06-21 13:41:00	Dwell	dwell
1429	2021-06-21 13:40:59	Enter	enter
1423	2021-06-21 13:40:57	Enter	enter
1416	2021-06-21 13:40:53	Enter	enter

Rules

Please increase screen width to see observable graph

Type: Dwell
Name: Dwell

Can Trigger Actions

Zone: detect purple

Interval: 3 seconds

Type: Enter
Name: Enter

Can Trigger Actions

Zone: detect purple

Type: Direction
Name: Right

Can Trigger Actions

Zone: detect purple

Angle: 87 Degrees

Acceptance: 12 Degrees

Type: Stopped
Name: Stopped

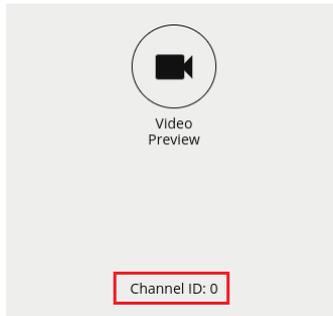
Can Trigger Actions

Zone: detect purple

Channel ID: 15

4. Note the **Channel ID** as this will be needed when connecting to the RTSP stream from the CMS 4 Client.

Note: The channel ID can be located at the bottom of the channels menu.



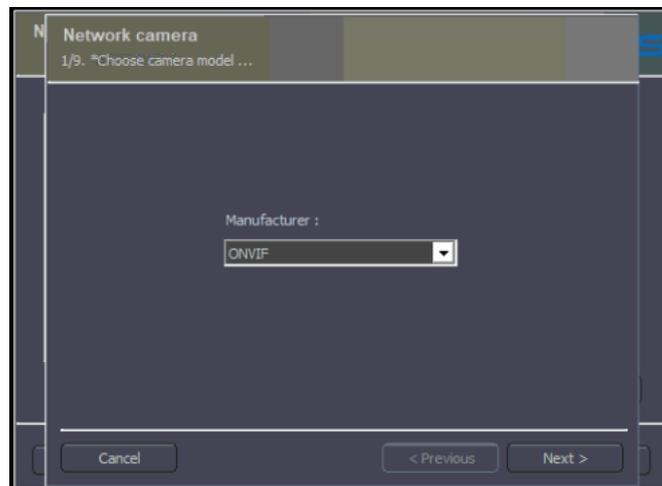
For more information on creating and configuring channels in VCA please refer to the VCA core manual 1.5.

1.5 Net Professional Configuration

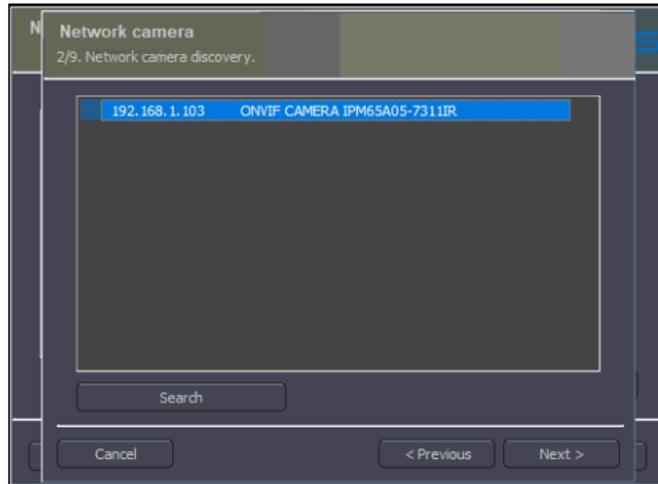
1.5.1 Adding a Network Camera

First, we configure an **ONVIF** device into the system. Run the Net Professional wizard.

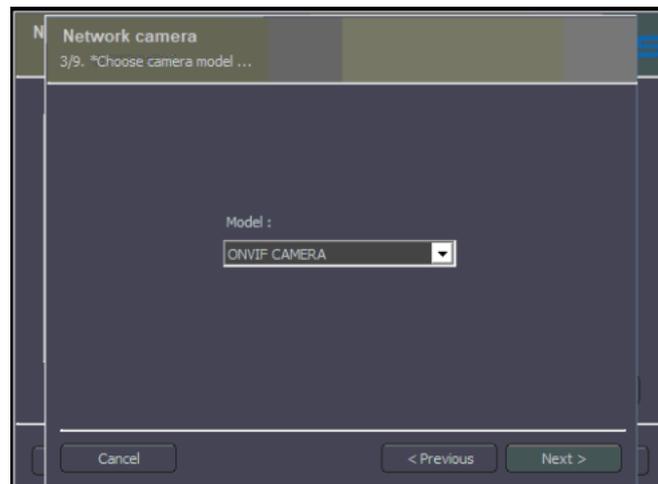
1. In **Network camera**, click **Add** and select the **Manufacturer** from the available options.



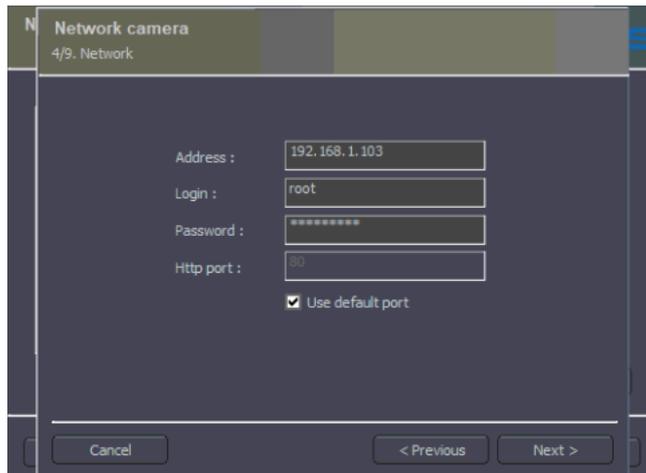
2. Then, click **Next**.
3. Click **Search** to discover the camera on the network. When the search is complete, select the IP camera you want to add and click **Next**.



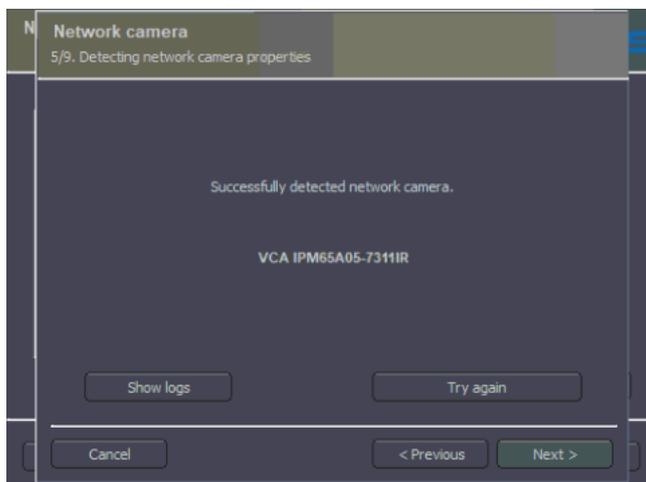
4. Confirm the camera model and click **Next**.



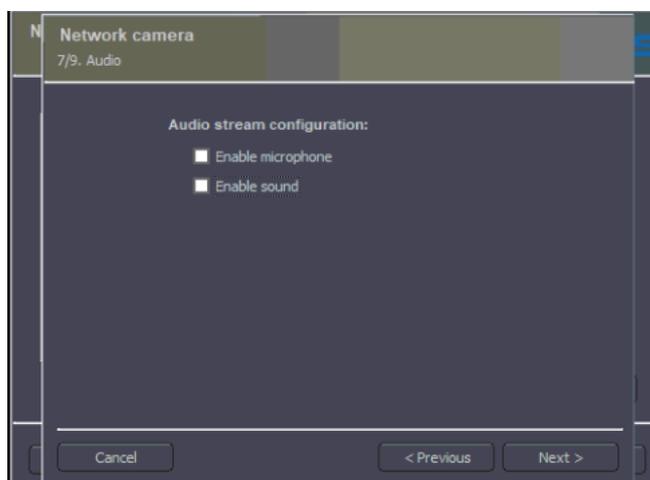
5. Enter the **login** and **password** to access the camera and click **Next**.



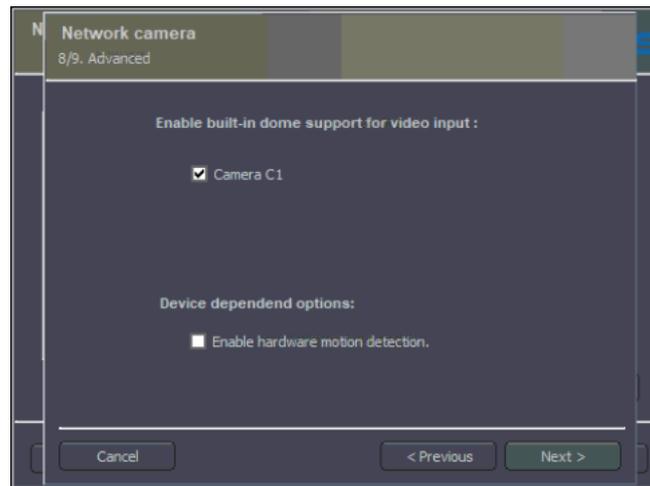
6. Make sure the camera properties have been detected correctly and click **Next**.



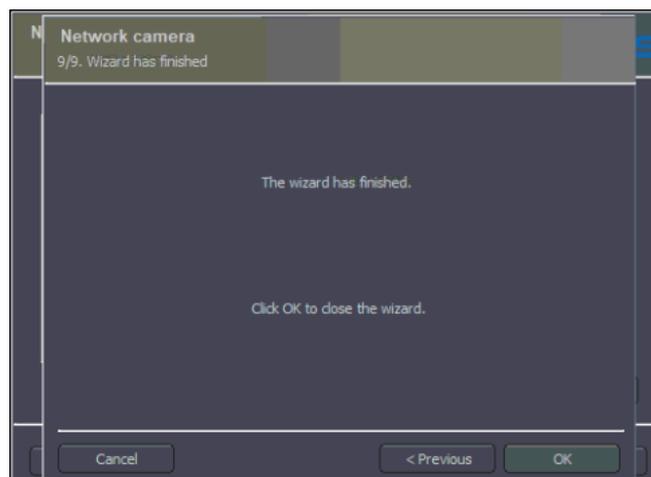
7. Configure the **Video stream** and **Audio** as required. Then, click **Next**.



8. Enable the **Advance** settings as required and click **Next**.



9. Click **OK** to confirm the configuration and close the wizard.



1.6 CMS 4 Client Configuration

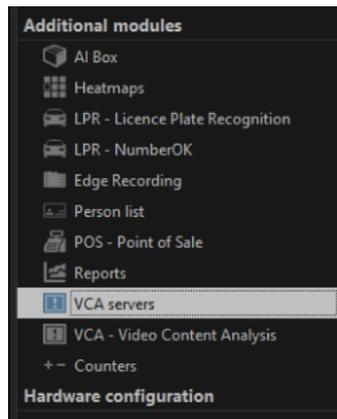
1.6.1 Connecting to the VCAserver

Next, we connect to the VCAserver to get the metadata provided on its channels.

1. From the **CMS 4 Client**, click **Configuration** located top.

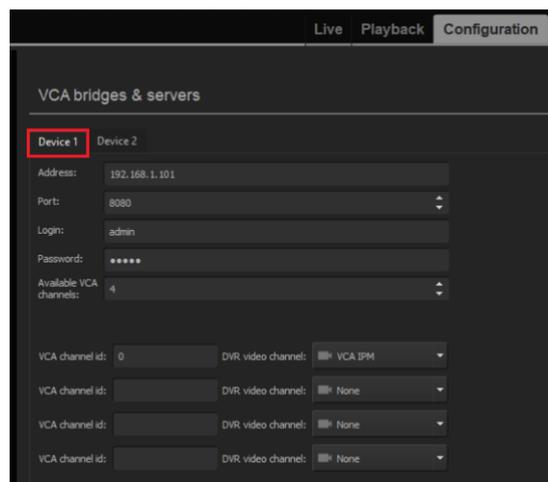


2. Then, click **VCA servers** in the left menu.



3. In the **VCA bridges & servers** page, configure the **Device1** as follows:

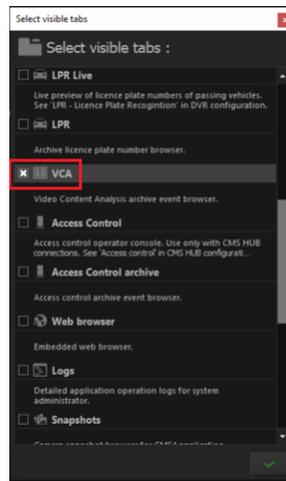
- **Address:** Enter the IP address of the VCAserver.
- **Port:** Enter the web port configured in the VCAserver.
- **Login:** Enter the username to access the VCAserver.
- **Password:** Enter the password to access the VCAserver.
- **Available VCA channels:** Enter the number of channels you want to integrate with.
- **VCA channel id:** Enter the ID of the VCA channel you want to get the metadata from.
- **DVR video channel:** Select the camera that matches the channel configured in the VCAserver.



4. Click **Apply** located bottom to save the configuration.

1.6.2 Verifying the VCA Events

In the CMS 4 Client main screen, click **Select visible tabs** located top. Then, select **VCA** from the available tabs and click the **green check** button located bottom to confirm.



Every time an event is triggered on the VCAserver, the notification will appear in the **VCA** tab showing the details of the event such as object type, rule, zone, class, source and time.

