



Comprehensive Video Analytics Solutions

innoVi Edge CI (Customer Installed) Installation & Configuration Guide



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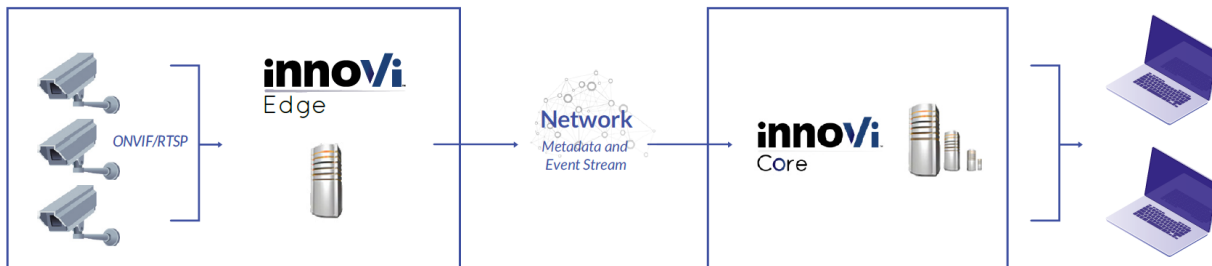
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1. Overview

Note: any reference to innoVi Edge™ in this document refers to innoVi Edge™ CI (Customer Installed).

innoVi Edge™ enables the deployment of Agent Vi's software on a customer's hardware to connect ONVIF / RTSP fixed IP cameras from the camera's network to a centralized innoVi Core. Agent Vi innoVi system can have one or multiple innoVi Edges that process the video stream, transforming it into Agent Vi's proprietary metadata before sending it to an innoVi Core, which will then perform all central management and advanced analysis.



The steps for installing and configuring innoVi Edge are as follows:

1. Install Agent Vi's software on innoVi edge
2. Connect innoVi Edge to the cameras' network and to innoVi Core. This step is performed once, as part of the initial on-site installation of innoVi Edge, using innoVi Edge's local settings
3. Connect ONVIF / RTSP video streams to innoVi. This step can be performed once innoVi Edge is connected to the innoVi Core and is comprised of configuration of each ONVIF / RTSP video stream. This step is performed using the innoVi portal

2. Networking Prerequisites

1. Internet access for software installation

During software installation or updates, innoVi must access various repositories on the internet (Linux / Docker hub) to download software components.

All downloads are over HTTP/HTTPS (outbound ports 80/443).

No inbound ports are required.

2. Firewall settings:

2.1. innoVi Edge to innoVi Core

For cloud-based deployments, the site's firewall must allow innoVi Edge to access the following endpoints (outbound traffic):

- *.innovi.io:443

These are innoVi cloud service addresses, required for the innoVi Edge to continuously communicate with innoVi

- *.docker.com:443, *.docker.io:443

These addresses are required when connecting the innoVi Edge to your innoVi account and when performing innoVi Edge software upgrades.

The Docker address redirects traffic to different IP addresses and third party dns names (for example cloudfront.net). The addresses being used are beyond Agent Vi control. See the following related docker forum response: <https://forums.docker.com/t/adding-rules-to-the-firewall-for-docker-pull-commands/38206>

It is advised to verify with the site's network administrator that these requirements are fulfilled, prior to arriving at the site

2.2. innoVi Edge to innoVi Video Sources

If there is a firewall between the innoVi Edge and video sources, ONVIF / RTSP ports should be open.

Default ports:

- ONVIF: 80 (unencrypted), 443 (encrypted)
- RTSP: 554

3. DNS server:

innoVi Edge requires access to a DNS server. In case there is no DNS server in the network, access to external DNS must be enabled (for example, to Google's DNS [8.8.8.8:53](https://www.google.com/dns/))

3. innoVi Software Installation Procedure

1. Open SSH connection to your Edge machine
2. Verify CPU model, Memory and storage are meeting Agent Vi specification.
To verify the CPU model, perform the following:
Run `sudo -i`
Enter password
Run `lscpu`
Identify the CPU model name and check compatibility to Agent Vi specification
3. Run this command to browse to home folder:
`cd ~`
4. Run this command to download the script:
`wget https://tinyurl.com/yczxeeq9 --trust-server-names`
5. Run the following command to make the script executable:
`chmod +x custom_edge_installer.sh`
6. Run this command:
`sudo bash ./custom_edge_installer.sh`
7. The available network interfaces are displayed. Identify your active network interface name (mapped to the IP of the Edge Device) and enter its name.
NOTE: If your edge machine is configured with multiple network interfaces for redundancy / high availability purposes, contact Agent Vi Customer Support for further instructions
8. In case the installation script exits at any point with an error, contact Agent Vi Customer Support with the error output
9. Your innoVi Edge is now ready to be added to your innoVi account



4. Usernames and Passwords

Make sure you have the following credentials:

1. **innoVi Edge local** username and password:

The local username and password are only used to configure innoVi Edge's local settings.

The default local username is 'agentvi' while the default local password is 'PASSWORD'. Once innoVi Edge is connected to the innoVi account it is strongly advised to change the default password to prevent unauthorized access to innoVi Edge (see "Changing innoVi Edge Default Password" below).

2. **innoVi** username and password:

To connect innoVi Edge to a specific innoVi account and start adding ONVIF / RTSP devices, you will need an innoVi account username and password.

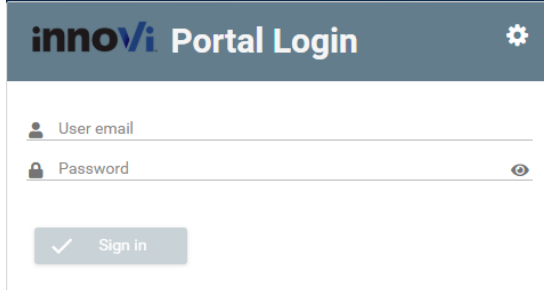
Note:

If you do not have the credentials above, please contact your innoVi account administrator

5. Connecting innoVi Edge to the Network

innoVi Edge must be connected to a network that allows constant access to innoVi Core endpoints.

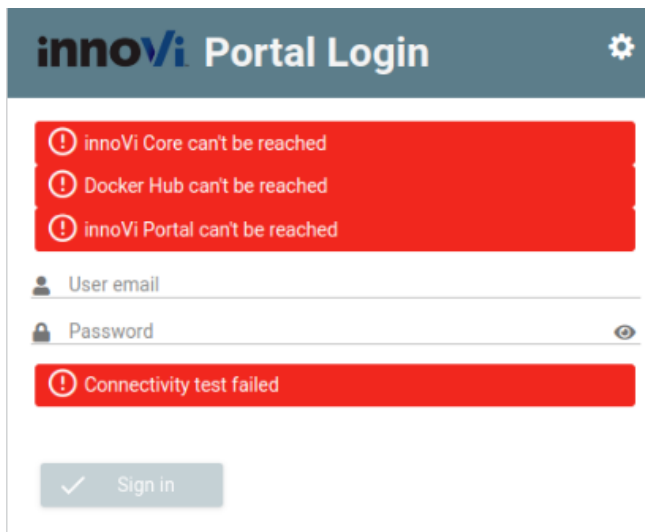
1. Using your web browser, navigate to innoVi Edge's IP address. The innoVi Edge webpage will open:



2. Use your innoVi username and password to login and connect innoVi Edge to the innoVi account. Proceed to "Connecting ONVIF / RTSP video streams to innoVi".

Note:

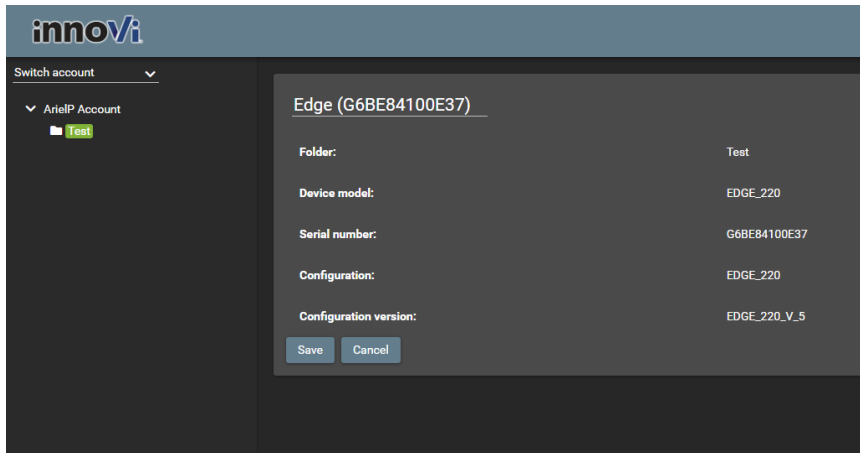
innoVi Edge includes an automatic **connectivity test** feature that tests innoVi Edge's ability to connect to the required innoVi Core cloud endpoints over the internet. If one or more of the required endpoints is inaccessible, the innoVi Edge webpage will show an error message indicating which endpoints cannot be reached. Please configure the firewall to allow outbound traffic from innoVi Edge's network to all listed innoVi Core endpoints.



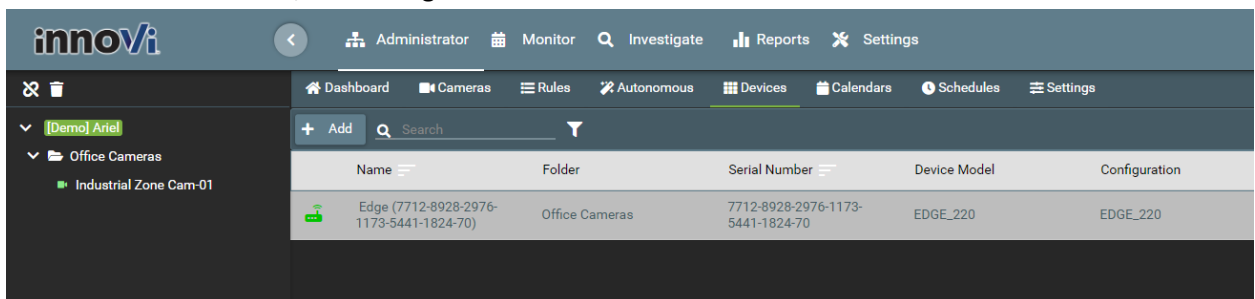
6. Connecting ONVIF / RTSP video streams to innoVi

Once innoVi Edge is connected to the network and access to the innoVi Core servers and to the video devices is available, you can start connecting ONVIF / RTSP video streams to innoVi. Please follow these steps:

1. From the innoVi Edge webpage, sign in to innoVi using your innoVi credentials
2. Once signed in, you will see the list of account customers you can manage (privileges are granted by the innoVi account administrator). You can select the site where innoVi Edge is installed:



3. Once the site is selected, innoVi Edge will be added to the list of Devices:



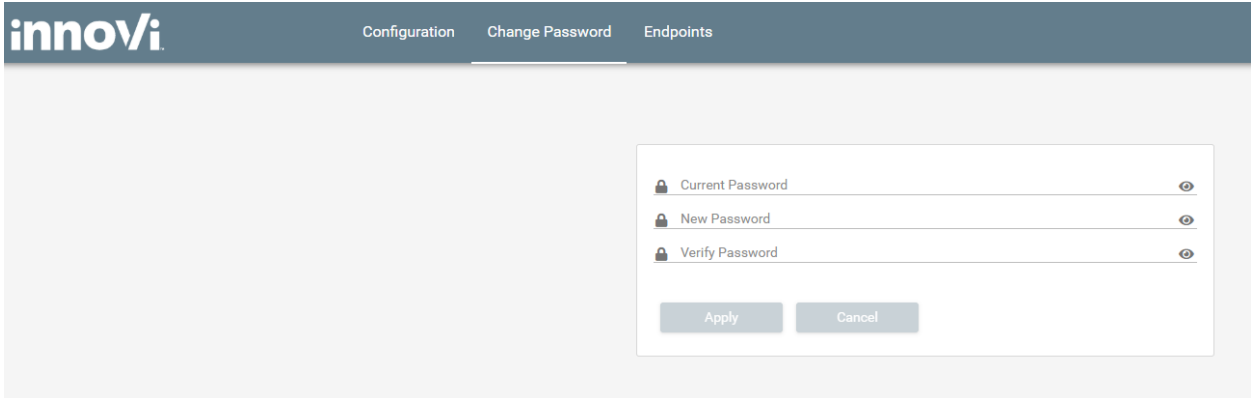
4. At this point, it is strongly recommended to change innoVi Edge's default password
5. Click the innoVi Edge to open its page:

6. Click the + Add icon to add an ONVIF / RTSP video channel and configure the required parameters
7. Click 'Save'
8. Once the channel is successfully configured innoVi starts to analyze the camera's video stream

7. Changing innoVi Edge Default Password

innoVi Edge is configured with a default username (agentvi) and a default password (PASSWORD). It is strongly advised to change the default local password once innoVi Edge is connected to the innoVi account. This will prevent unauthorized access to innoVi Edge's local settings.

1. Make sure innoVi Edge is connected to the innoVi account: login to the innoVi account and make sure innoVi Edge appears in the list of devices
2. Open innoVi Edge's local webpage and sign into the local configuration page. Open the 'Change Password' tab:



3. Set a new password and retype it
4. Click 'Apply'

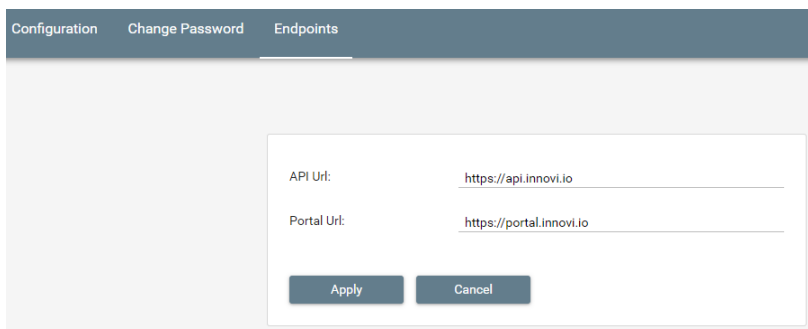
Note:

In case you forget innoVi Edge's revised local password, you can log into innoVi account, open the innoVi Edge page, go to the 'Settings' tab and reset the password to the default settings.

8. Changing Endpoints

innoVi Edge is configured with default Endpoint settings, to access the Agent Vi hosted service.

Change these values only following Agent Vi's specific instructions!



9. Contact Agent Vi Support

There are two options to contact the Agent Vi Support Department:

- Use the innoVi support form on Agent Vi's website:
<https://www.agentvi.com/support/innovi-request/>
- Email innovi-support@agentvi.com



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