Wave Alarm Transmitter Manual

Introduction

Wave Alarm Transmitter is a software that can transmit events from Hanwha Wisenet Wave as standardized SIA messages to an alarm receiver.
Versions exists for Windows, Linux x64 and Linux ARM.

Installation

Windows installation is done by downloading the installer from the ArrivalNet site in the downloads section. Installation is very straightforward, just follow the messages on screen. Installation from Linux can be done with opening a terminal window and execute this command:

Install command for x64 server:

```
sudo apt install -y curl && curl -s https://www.arrivalnet.se/linux/install_wavealarmtransmitter.sh | sudo bash
```

Install command for ARM64 server:

```
sudo apt install -y curl && curl -s https://www.arrivalnet.se/linux/install_wavealarmtransmitter_arm.sh | sudo bash
```

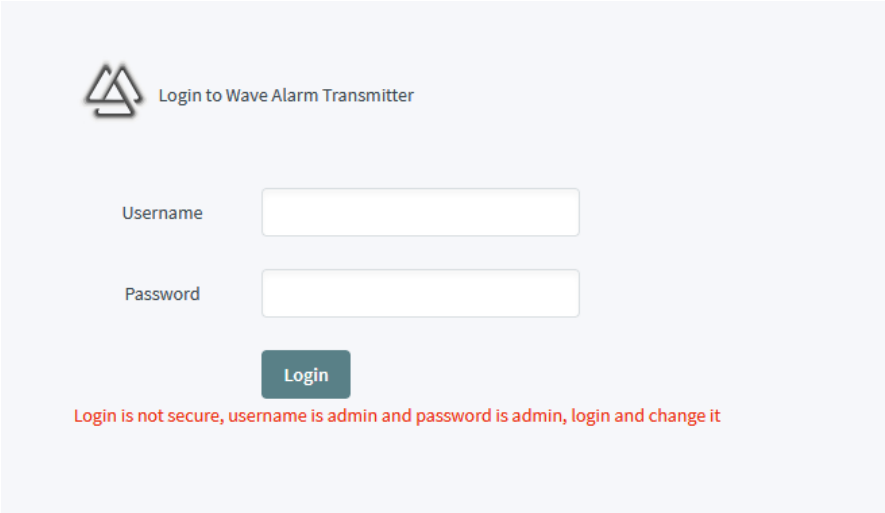
We recommend using Ubuntu 18.04, 20.04 or 22.04 but any Debian based distribution should work.

After the installation is done all configuration is done from a web browser on the default port 8003. http://localhost:8003

Configuration

The configuration is done with the config web interface. Here is an explanation for the different settings.

At first login the default password is admin and username are also admin, it is highly recommended to change the password after logging in.



After logging in you will be taken to the general settings:

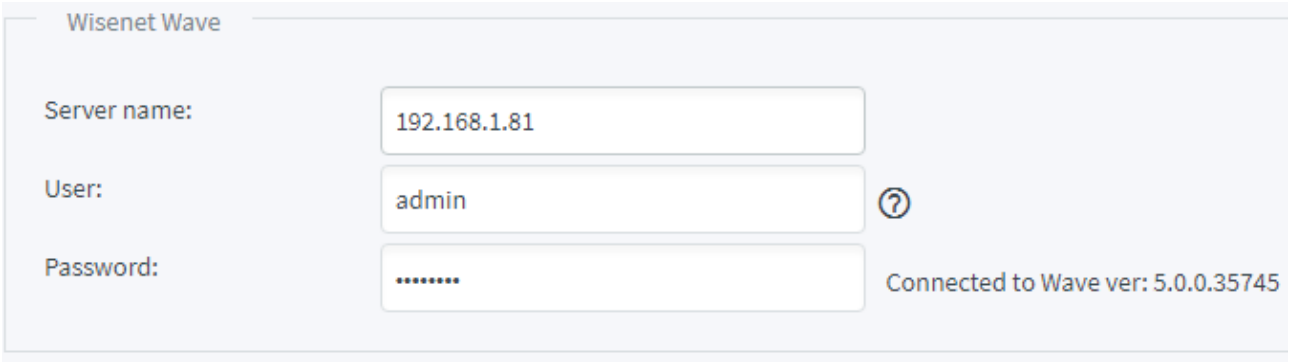
Password: This is the password you use to login to the configuration web-interface, please make sure to change it to a secure password.

Listening port: For older legacy system only, will be removed in future versions.

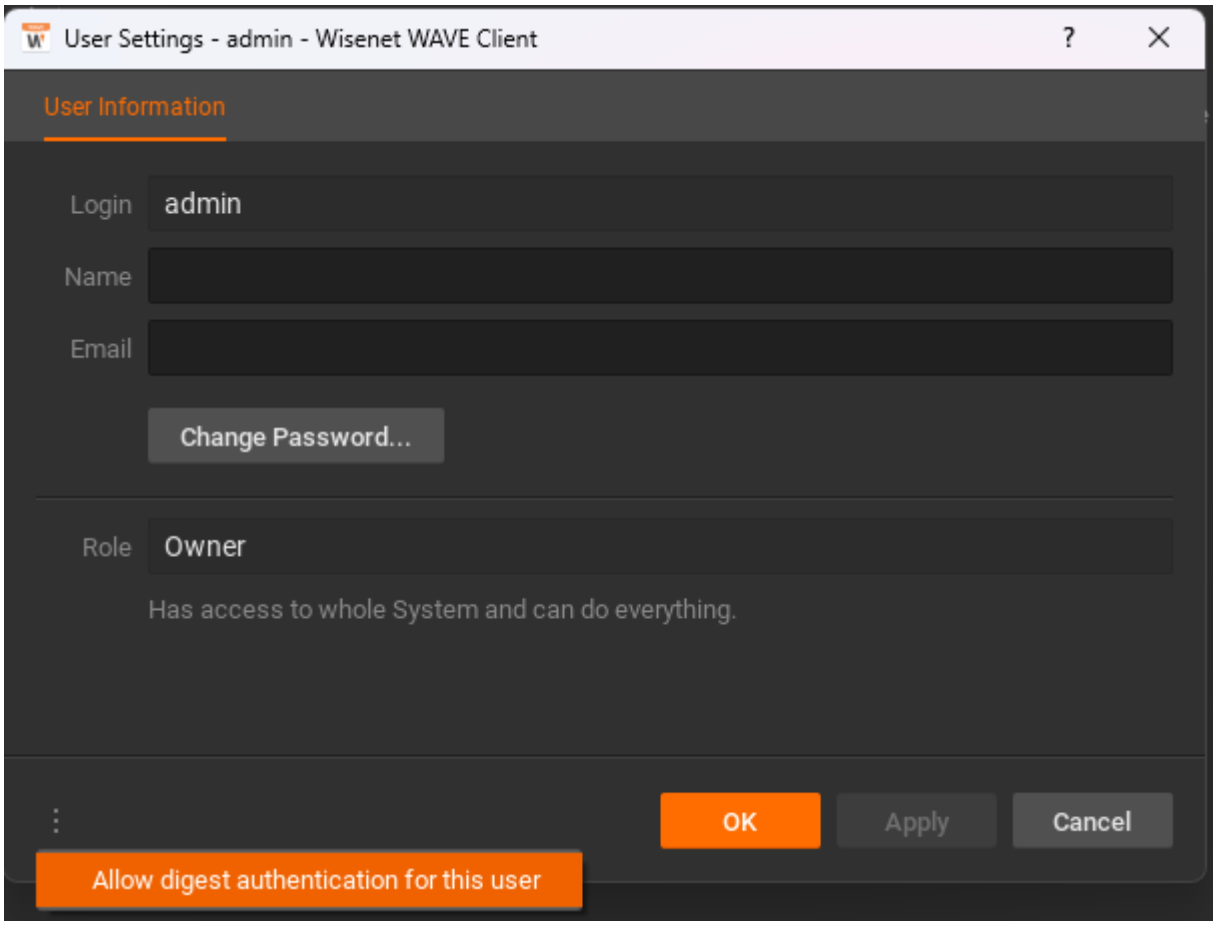
Web port: This is the port the web-interface is using, and this port is also used when creating rules in Wisenet Wave.

Hardware ID: This is a unique code for your system and to get a license you need to send this with the customer license document you receive from your distributor after purchase.

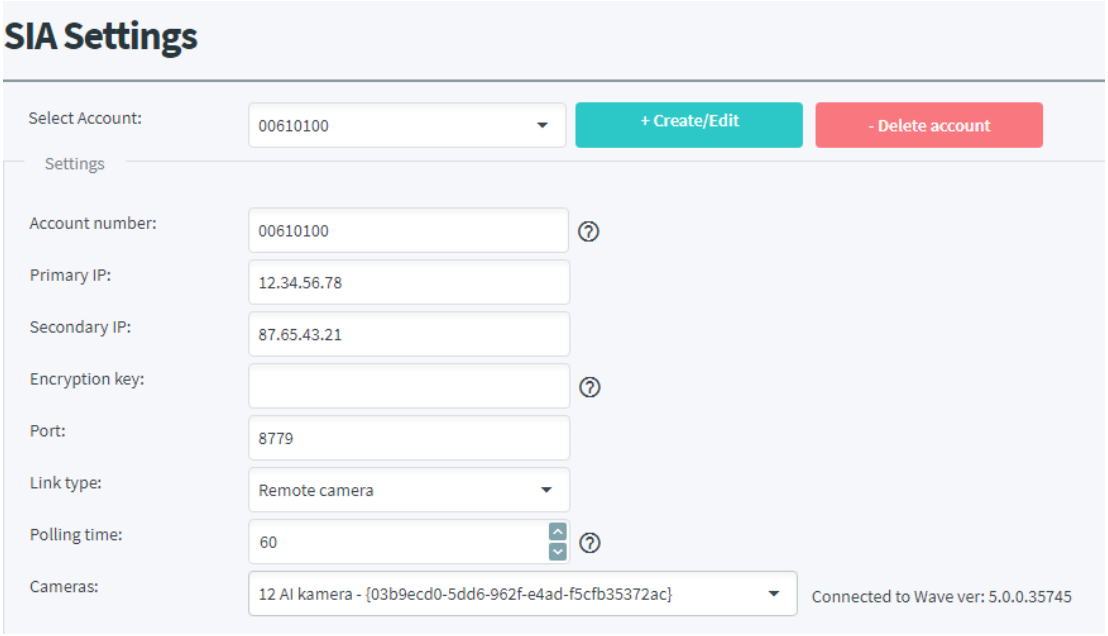
The section for Wave needs the username and password, a local limited user can be created in Wave and need at least rights to create bookmark on the selected cameras:



Also make sure digest authentication is enabled for the Wave user, you can activate this in user settings by clicking on the three dots in the lower left corner.



When the basic settings is done it is time to add a connection to an alarm receiving station.
Click on the SIA settings and then on the Create Edit button.



The settings for Account number, IP, Port and poling time are all values you will get from your alarm receiving station after you have ordered an account.
Encryption key is not used for the moment.

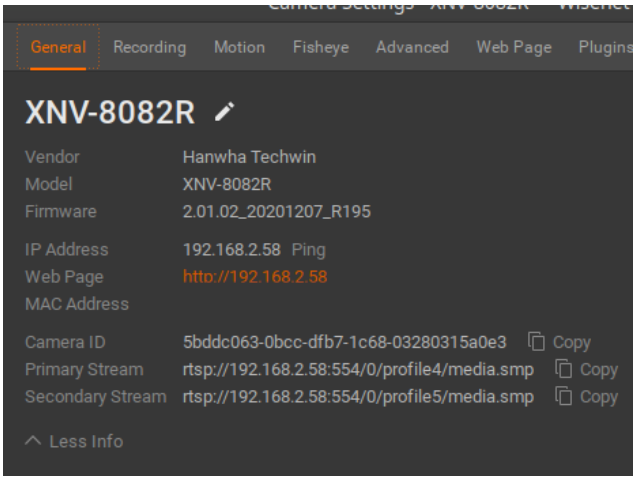
This is the settings you will get from your alarm receiving service provider:
Account number = Your account number that you get from the alarm station
Primary IP = Alarm station primary IP
Secondary IP = Alarm station secondary IP
Encryption key = Reserved for future use
Port = Alarm station port

Link type = Here you have four choices
1. **Local camera** – Alarm receiver will get a link directly to the camera, meaning they must have LAN access to it over for example a VPN connection
2. **Local client** – Alarm receiver will get a link directly to the Wave server, meaning they must have Lan access to it over for example a VPN connection
3. **Remote camera** – Alarm receiver will get a link to the camera over the internet
4. **Remote client** – Alarm receiver will get a link to the Wave server over the internet
If you are unsure, then use type 3, Remote camera.
Polling time = Alarm receiver will get an empty heartbeat message to tell them the system is alive, setting are in minutes. To disable polling messages set this to 0.

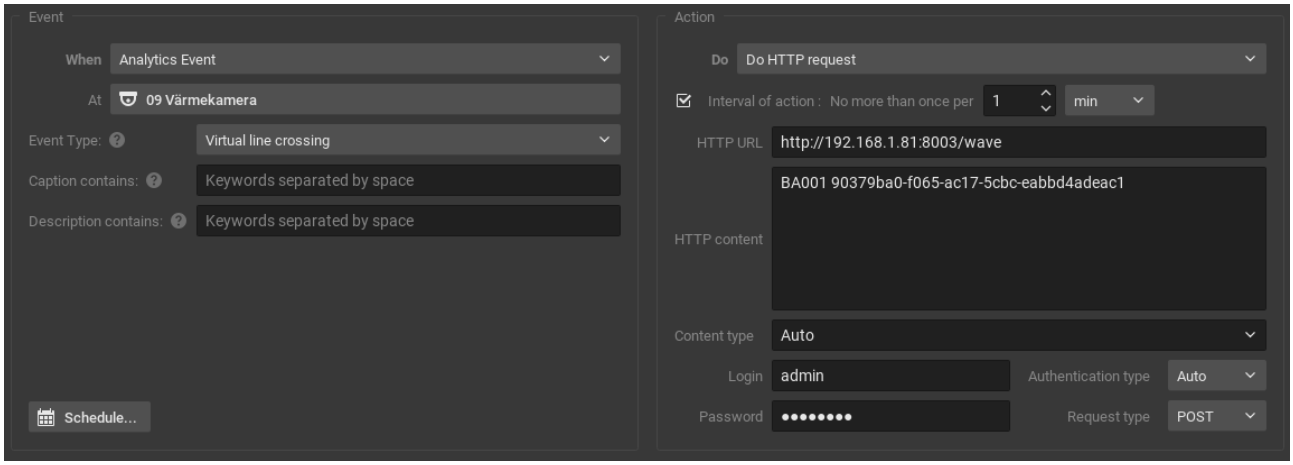
Cameras, here you select the cameras you like to send to this receiver.
If you like to have more than one receiver, then repeat this process.

Wisenet Wave configuration

After the settings are saved it is time to make rules in Wisenet Wave. Start with opening the camera you want to send alarms from, remember it has to exist in a SIA configuration under the selected cameras, go to the settings of that camera and copy the camera ID that you can find under the General settings:



Now create a rule in Wave, for example a rule triggered by video analytics and select http request as its action like this image:



In the **HTTP URL** you write http://<IP address of the PC where you have the Wave Alarm Transmitter plugin installed>:<Web port you set in the configuration> default is port 8003 and end with /wave. For example: **http://192.168.1.81:8003/wave**
In the **HTTP Content** you should write the section you want the alarm receiver to get, usually this starts with **BA001 or VA001** for video analytic alarms and if you have more cameras, you give the next one **BA002 (VA002)** and so on. If you want to send alarms that have the nature of service alert you instead start with **ZA001** and so on, can for example be used for sending an alarm if connection is lost to a camera, direct after the section information you should have a space between the section and id information. The ID after the section information is

the camera ID you copied in the previous step.
The content type should be set to text/plain and the rest should be set to Auto.
Then put the Wave username and password to this rule and set authentication to Basic.

When this rule now is triggered the alarm receiver will get an alarm with a link that takes them directly to the camera.
Alarm transmission is quick and will be sent immediately and transferred in a second as long as the PC with the plugin have internet access.

Recordings

The link that is sent is pointing to the recorded video 5 seconds before the video is sent so it means you need to have a recording being done at that time. Here you have three options:

1. Set a pre-recording of the event at least 5 seconds before.
2. Activate continuous recording.
3. Activate Motion + Low res

Logs

You can find logs in C:\ProgramData\WaveAlarmTransmitter or if you are using Linux the logs will be saved at /var/logs/WaveAlarmTransmitter the log will save the last 15000 events. In the log you can find information to help you find a solution if there are some problems to send alarms.
You can also find logs on the logs tab in the configuration web interface.

Licensing

In the configuration tool you can also find the Hardware ID needed to get a license. You can order the license from an authorized reseller found at www.arrivalnet.se

Send the hardware ID with the order to order@arrivalnet.se when it is processed you will get a license code and you need to paste that into the License textbox and press Save.
If the license is valid, you will get a message next to the License textbox under the General settings.
You need one license for every alarm receiver you want to configure.