

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

Install command for ARM64 server:

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

We recommend using Ubuntu 20.04 or later but any Debian based distribution should work.

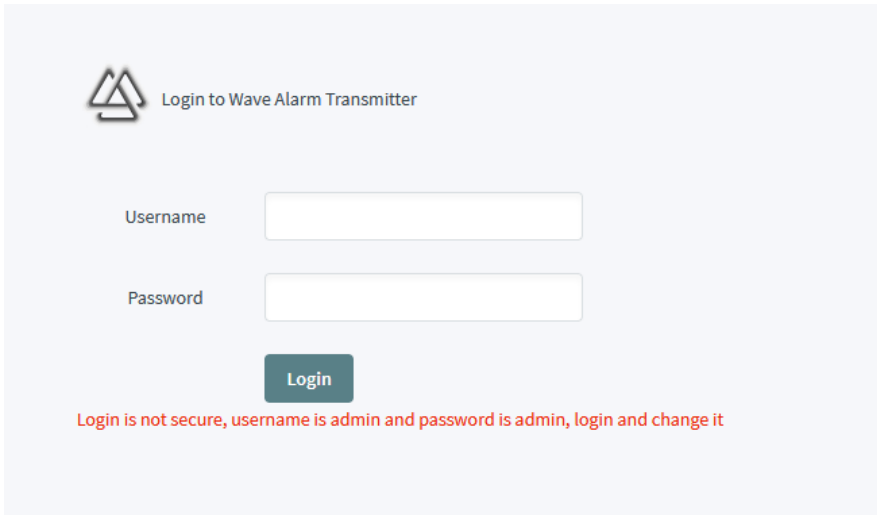
After the installation is done all configuration is done from a web browser on the default port 8003. <http://localhost:8003>



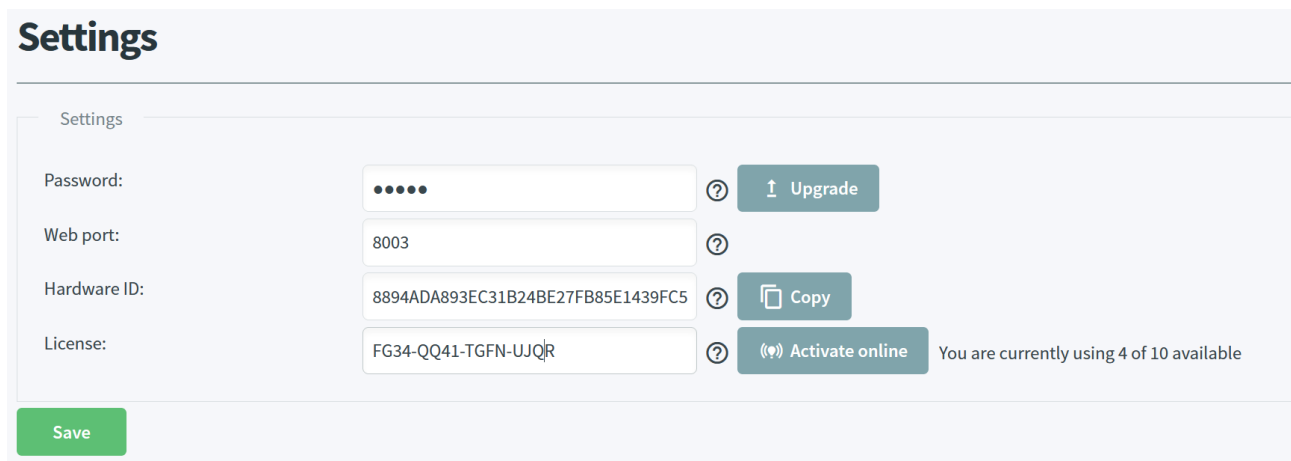
Configuration

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:



Settings

Settings

Password: ⓘ Upgrade

Web port: ⓘ

Hardware ID: ⓘ Copy

License: ⓘ Activate online You are currently using 4 of 10 available

Save

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

Web port: This is the port the web-interface is using, and this port is also used when creating rules in Wisenet Wave. In most cases you never have to change this port, only in rare conditions if another service in the same server is using this port.

Hardware ID: This is a unique code for your system and to get a license if you don't have an internet connection you need to send this with the customer license document you receive from your distributor after purchase to get the license key.

License: This is the license key you get after purchasing one from the distributor. Easiest way to activate a license is to enter the online activation key here and click on Activate online, then you will get your license and it will automatically be activated.

From this menu you can also upgrade this software by clicking the Upgrade button. Depending on your internet connection speed this process can vary in time but it is usually a quick process that is done in a few minutes.

When the basic settings is done it is time to add a connection to an alarm receiving station.

SIA Transmission

Click on the SIA settings and then on the Create Edit button.
Give an account name, can be anything, be creative.

Transmission settings

Account name:	<input type="text" value="My first SIA account"/>	?
SIA account number:	<input type="text" value="100182"/>	?
Primary IP:	<input type="text" value="97.1.45.67"/>	
Secondary IP:	<input type="text" value="195.215.202.122"/>	
Encryption key:	<input type="text"/>	?
SIA port:	<input type="text" value="2008"/>	
Link type:	<input type="text" value="Remote camera"/>	
Polling time:	<input type="text" value="60"/>	↑ ↓ ?

The settings for Account number, IP, Port and polling 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:

SIA 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 two 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, this is just for very special cases where you can't use Wave sync feature.
2. **Remote camera** – Alarm receiver will get a link to the camera over the internet thru wave sync. This is the default value.

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.



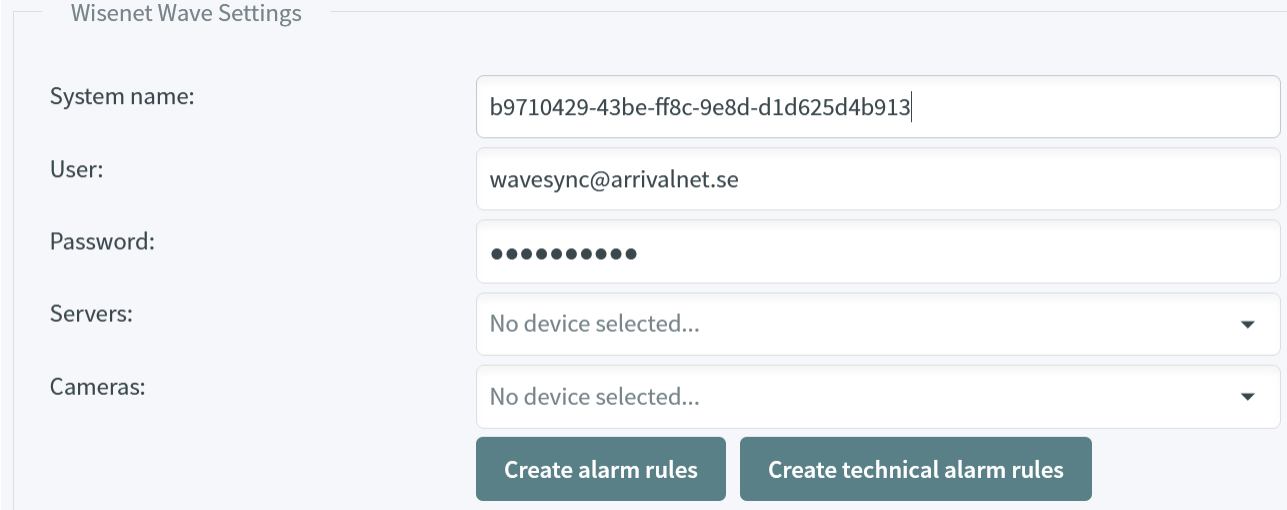
Wisenet Wave configuration

Next step is to create the connection to Wisenet Wave. System name can be the local IP to the Wave server or as in the example below the system ID. To find the system ID you can open and login to <https://sync.wavevms.com> and view the system you like to use and copy the system ID from the browser URL. If your browser URL looks like this:



<https://sync.wavevms.com/systems/b9710429-43be-ff8c-9e8d-d1d625d4b913>

Then your system ID is: b9710429-43be-ff8c-9e8d-d1d625d4b913



Wisenet Wave Settings

System name:	<input type="text" value="b9710429-43be-ff8c-9e8d-d1d625d4b913"/>
User:	<input type="text" value="wavesync@arrivalnet.se"/>
Password:	<input type="password" value="••••••••"/>
Servers:	<input type="text" value="No device selected..."/>
Cameras:	<input type="text" value="No device selected..."/>

User = Here you give the username of a Wave Sync user with access to the system

Pass = Password for the user

Servers will now be populated with the servers that belongs to your system, can be just one or many if you have merged server.

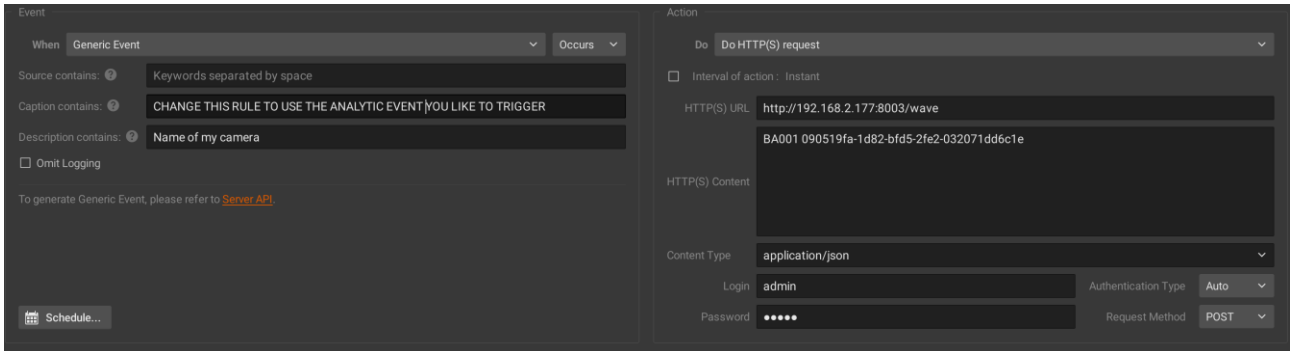
Cameras will be the cameras belonging to the server you selected. The cameras you select here will be transmitted to the alarm receiver when alarms is detected. More on how to configure this later

Here you also have two helper buttons that helps you to create rules in Wisenet Wave that will be sent to this plugin and translated as SIA messages then sent to the alarm receiver.

If you press Create alarm rules the plugin will create rules that when triggered will send alarm information to this plugin from Wave from all the selected cameras.



If you open the rule editor in Wisenet Wave you will find rules like this, one for each camera you selected:

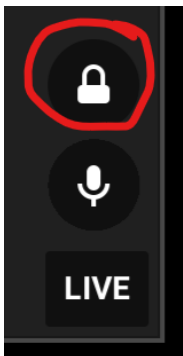


The action part is now correctly filled in with the camera ID and you need to change the generic alarm to instead use the type of alarm you like to trigger this, to help a bit you can find the camera connected to this alarm in the Description field.

When this alarm is triggered the alarm receiver will get a SIA message from Section 001 with a weblink to the camera with ID: 090519fa-1d82-bfd5-2fe2-032071dd6c1e

When the operator clicks this link a web-site will open and the camera can be viewed both at the time it triggered in alarm and at the same time live.

At the same time two more rules will be created with buttons to be able to arm and disarm the cameras from sending alarms, you can find this button in the camera live view:



Schedules

Next step is optional. If you don't want alarms to be sent during different times of day. In this example alarms will not be transmitted on weekdays between 06:00 to 18:00 but will be transmitted around the clock on weekends.

Also an additional day has been added to use the weekend schedule even if that date is a weekday.

Schedules

Block alarms on weekdays: 06:00 - 18:00

Block alarms on weekends: 00:00 - 00:00

Additional weekend days: 2024-06-21

2024-06-21

When you done all your settings, please don't forget to press the save button.

You are using 4 licenses of 10

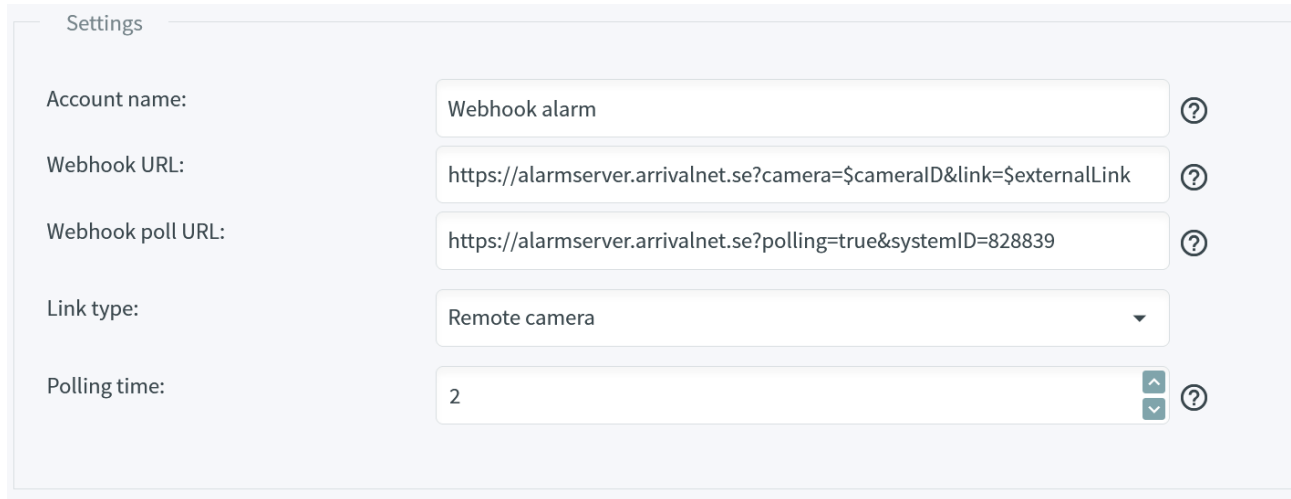
Next to the save button you can see have many licenses you are currently using. Every server you are sending alarms from requires a license.



Webhook

Webhook is another way of sending alarms. A lot of the settings are the same as for the SIA alarms and here only the webhook settings are explained.

Here is an example of a webhook transmission:



The screenshot shows a 'Settings' panel with the following fields:

- Account name:** Text input field containing 'Webhook alarm'.
- Webhook URL:** Text input field containing 'https://alarmserver.arrivalnet.se?camera=\$cameraID&link=\$externalLink'.
- Webhook poll URL:** Text input field containing 'https://alarmserver.arrivalnet.se?polling=true&systemID=828839'.
- Link type:** Dropdown menu with 'Remote camera' selected.
- Polling time:** Spin box with the value '2'.

Account name = Your choice of name for this transmission

Webhook URL = This is the url that will be called when the alarm is triggered from Wisenet Wave. This url can also have some dynamic fields, in the example above the following dynamic fields has been used:

\$cameraID = This field will be replace with the cameraID that triggered the alarm

\$externalLink = Will be replaced with the remote link to the camera, same type of link that the SIA transmission is using.

Evalink

If you want to send alarm to Evalink - <https://www.evalink.io/>

This menu is where you give the Evalink webhook code, all other settings are the same as for SIA or webhook settings.

Account name:	<input type="text"/>	?
Webhook code:	<input type="text"/>	?
Link type:	Local camera	▼
Polling time:	0	▲ ▼ ?

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 you need to consider in Wisenet Wave:

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

You can activate your license online directly from the web-interface.

If online activation is not possible you need to send the hardware ID with the order to order@arrivalnet.se when it is processed you will get a license code, 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 server you like to send alarms from, even if the server is merged with several other servers to form a system.

