

# SPC Wave Integrator Manual

## Introduction

SPC Wave integrator is a software that connects Vanderbilt SPC intrusion panels with Hanwha Wisenet Wave VMS.

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_spcwaveintegrator.sh | sudo bash
```

Install command for ARM64 server:

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

We recommend using Ubuntu 22.04 or later but any Debian based distribution should work.

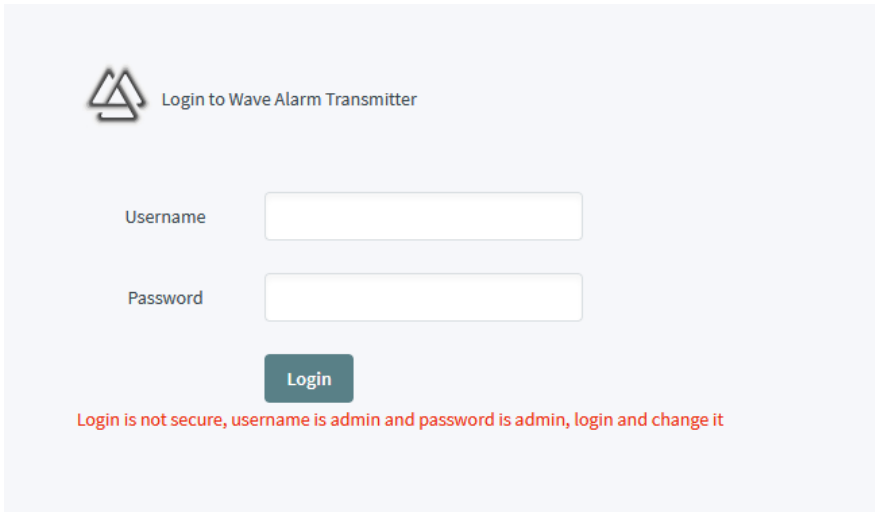
After the installation is done all configuration is done from a web browser on the default port 8010. <http://localhost:8010>



## Configuration

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

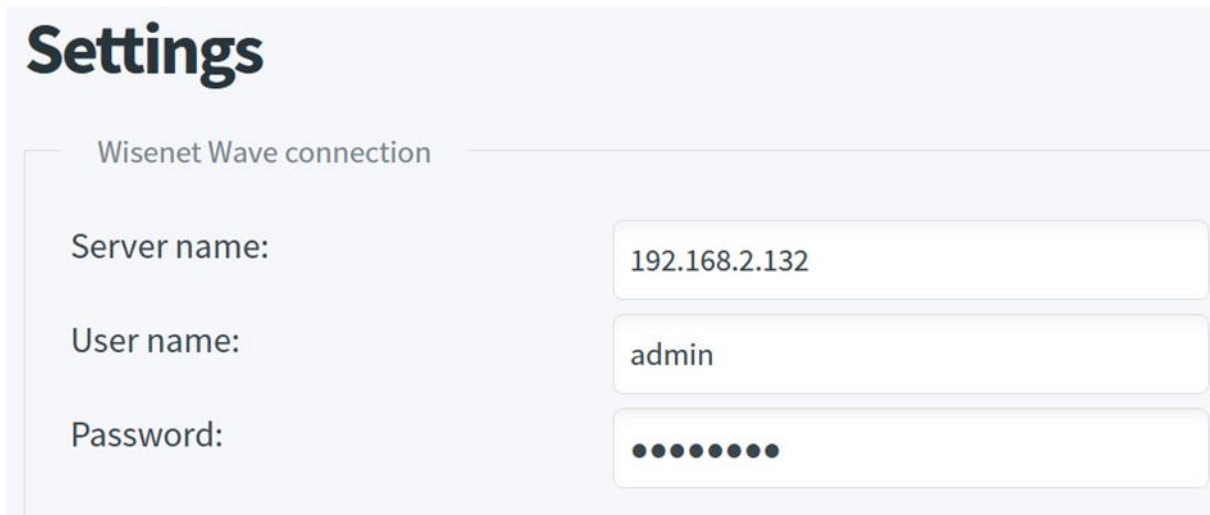
At first login the default password is admin and username are also admin, it is highly recommended to change the password after logging in.



The screenshot shows a login page for the Wave Alarm Transmitter. At the top left is a logo consisting of three overlapping triangles. To the right of the logo is the text "Login to Wave Alarm Transmitter". Below this, there are two input fields: "Username" and "Password". Below the "Password" field is a "Login" button. At the bottom of the form, there is a red warning message: "Login is not secure, username is admin and password is admin, login and change it".

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

### Wave Settings



The screenshot shows a web interface titled "Settings". Under the heading "Wisenet Wave connection", there are three input fields. The first field is labeled "Server name:" and contains the IP address "192.168.2.132". The second field is labeled "User name:" and contains the text "admin". The third field is labeled "Password:" and contains a series of ten black dots, indicating a masked password.

In the first section of the general settings give the IP or Wave cloud ID and username, password. You can see the status of the connection once you have entered the correct information and saved it.

### SPC connection settings


**Decryption key** will be generated for you, copy this key and save it in the SPC panel, if you already have a decryption key from the panel you can paste that key in here instead.

**RCT ID** has to be the same in the panel as it is here.

**Panel user and password** is default FlexC/FlexC. If you change it in the panel you also need to change it here.

**Panel port** is by default 52000 same as the default settings in the SPC panel, this is the port the panel will use to connect to this software and you need to make sure it is opened in the firewall of the server this software is installed.

After you save the settings and have done the corresponding settings in the SPC panel, the panel will try to connect to the plugin and you can see the status of the connection.

SPC connection	
Decryption key	<input type="text" value="0908D9073B3A691F927A6BA3F8C6FCA2B0€"/> 
RCT ID	<input type="text" value="9999"/>
Panel User	<input type="text" value="FlexC"/>
Panel Password	<input type="password" value="•••••"/>
Panel Port	<input type="text" value="52000"/>



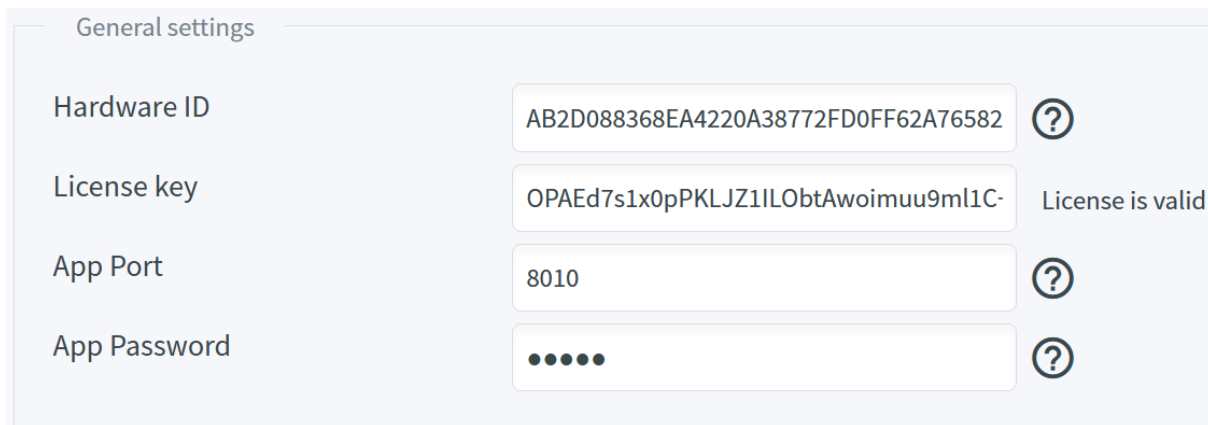
## Settings

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

**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.



The screenshot shows a 'General settings' panel with four rows of configuration fields:

- Hardware ID:** A text input field containing the alphanumeric string 'AB2D088368EA4220A38772FD0FF62A76582'. To the right of the field is a circular help icon with a question mark.
- License key:** A text input field containing the alphanumeric string 'OPAEd7s1x0pPKLJZ1ILObtAwoimuu9ml1C-'. To the right of the field, the text 'License is valid' is displayed.
- App Port:** A text input field containing the number '8010'. To the right of the field is a circular help icon with a question mark.
- App Password:** A password input field with five dots representing masked characters. To the right of the field is a circular help icon with a question mark.

## Rules creation

A rule consists of two parts, event and action. In the event part you can choose from the Type list what you want to trigger the rule.

Event

Type

Area

You can select from various statuses coming from the SPC panel, depending on the type you select you will get some options. For example Area in Alarm also requires you to select what area you like to get an alarm message from.

The special event Arm/Disarm button requires you to select some options, after this rule is saved you will get a toggle button overlay on the video tile of the selected camera. When you press the button it will arm or disarm the area in the SPC panel

Event

Type

Area

User

Wave Devices

The action part is similar to the event part in that you select an action and then an option to that action.



Action

Type: Camera rec shedule on

Wave devices: Camera rec shedule on, Camera rec schedule off, Bookmark in Wave, Event in Wave, Full Arm SPC, Disarm SPC

For example Bookmark in Wave requires you to also give some details of what information you like to have in the bookmark.

The Event in Wave action can also be configured to reset the panel from Wisenet Wave if the generic event that matches has the parameter "Force Acknowledgment" enabled.

For example, the following configuration will give a notification in the Wave client that has to be acknowledged by a user, after it has been acknowledged and a comment has been written the alarm in the panel will be reset.

<p>Event</p> <p>Type: Zone in Alarm</p> <p>Zone:</p>	<p>Action</p> <p>Type: Event in Wave</p> <p>Wave devices: Please select...</p> <p>Source: SPCZoneAlarmEvent_1</p> <p>Caption: %ZONENAME%</p> <p>Description: Zone in alarm</p>
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<p>Event</p> <p>When: Generic Event Occurs</p> <p>Source contains: SPCZoneAlarmEvent_1</p> <p>Caption contains: Keywords separated by space</p> <p>Description contains: Keywords separated by space</p> <p><input type="checkbox"/> Omit Logging</p> <p>To generate Generic Event, please refer to <a href="#">Server API</a>.</p> <p><input type="button" value="Schedule..."/></p>	<p>Action</p> <p>Do: Show desktop notification</p> <p><input checked="" type="checkbox"/> Interval of action: No more than once per 1 min</p> <p>to: All Administrators</p> <p><input checked="" type="checkbox"/> Force Acknowledgment</p> <p><small>Force Acknowledgement will only work for Generic Events if camera identifiers are used in the Generic Event URL.</small></p>
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Many texts, for example a bookmark caption, can also have the following special texts:



**%AREANAME%**  
**%ZONENAME%**  
**%MAPPINGGATENAME%**

Having that in a rule text will when the action is created be replaced with the name of the Area, Zone or Mapping Gate that was used to trigger the rule.

For example:

Action	
Type	Bookmark in Wave
Wave devices	Please select...
Source	%ZONENAME%
Description	Zone in alarm
Tag	%ZONENAME%

Setting a bookmark action like this will have the Zone triggering the alarm in the Source and Tag of that bookmark, this means you don't need to create one rule for every Zone to have the specific zone name in the bookmark.

### Backup of settings

All rules in this plugin are created in Wisenet Wave so doing a backup of the settings in Wave also backs up your rules.

We do recommend that you save your license key as it will not be backed up in the Wave database.

### Logs





You can find logs in C:\ProgramData\SpcWaveIntegrator or if you are using Linux the logs will be saved at /var/logs/SpcWaveIntegrator the log will save the last 15000 events. 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](http://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](mailto: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.

