

# RPG-AVIG1

## User Guide

Version 1.00

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## 1 Purpose

This document shows how the plugin software, “RPG-AVIG1” should be installed and how to use it.

## 2 Target user

System Administrator

## 3 Preparations

### 3.1 Essentials

- Computer
  1. Windows PC  
(Windows Vista SP2、Windows 7 SP1、Windows 8、Windows 8.1)
- Software
  1. RPG-AVIG1.msi
  2. Avigilon Control Center (ACC)
- Component
  1. .Net Framework 4.0 and upper
  2. DirectX 9.0

### 3.2 Before setup

#### 3.2.1 Install ACC

Install ACC Server/Client into the PC that RPG-AVIG1 will be installed.

#### 3.2.2 Alarm setting on ACC

Register alarms on ACC Client to link with Redwall Event Code (R.E.C.)

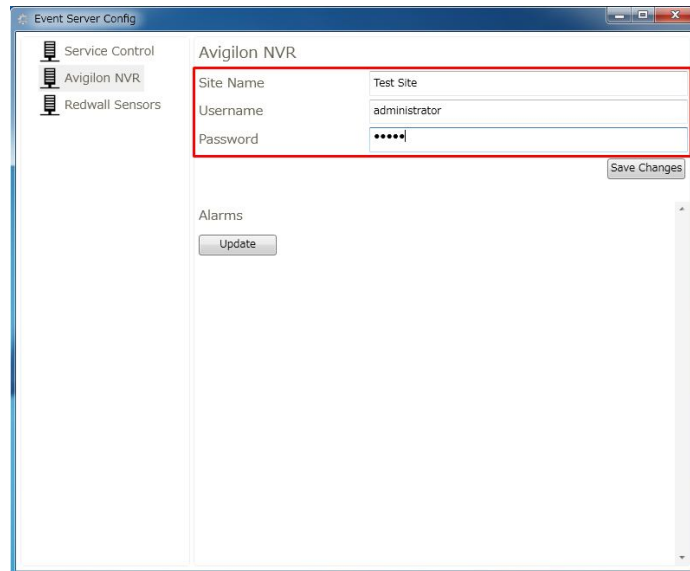
## 4 How to install

1. Execute RPG-AVIG1.msi on the PC which ACC Server is installed.

## 5 How to setup

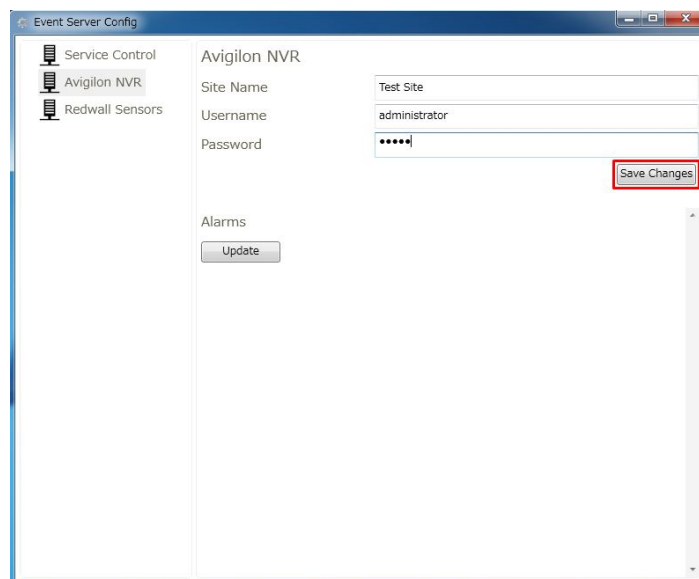
### 5.1 Setting for ACC site

1. Open the start menu of PC, and go to All program > Redwall Event Server, and then execute Event Server Config.
2. Click the “Avigilon NVR” Tab, and enter the site name, user name, password which are registered with the events you would like to link in “Site Name”, “Username”, “Password”.



3. Click “Save Changes”, and then “Save”.

The message window will show “Successfully Changed!”, and if the information entered is correct, the list of alarms from ACC will show in “Alarms” panel.

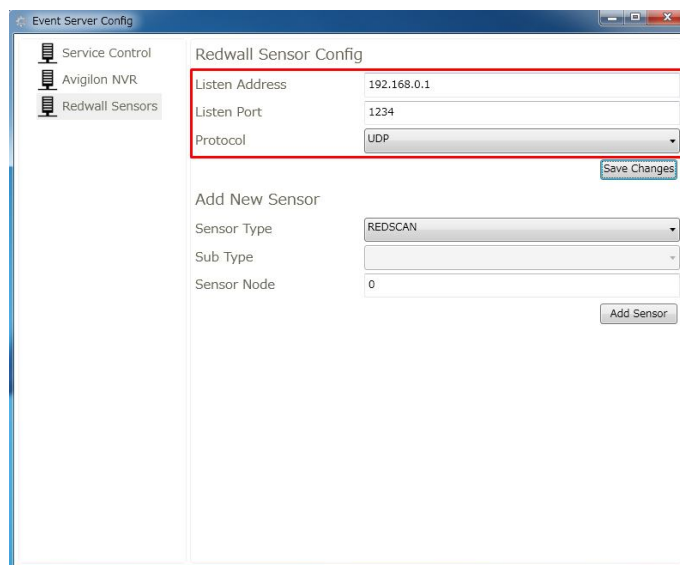


## 5.2 Setting for receiving R.E.C.

1. Execute Event Server Config, and Select “Redwall Sensors” Tab.
2. Enter IP address and port number which is used for receiving Redwall Event Code, and select protocol of Redwall Event Code.

Note.

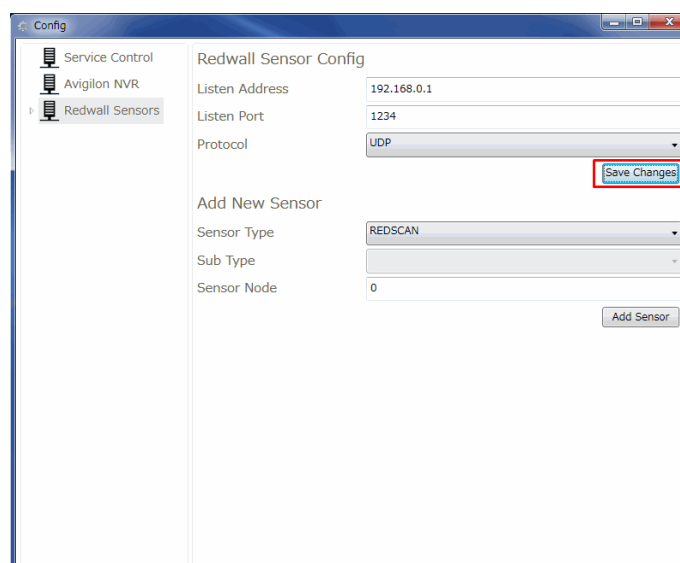
“Listen Address” is the Server IP address that Avigilon and the Redwall Plug-in is installed.  
Enter a number which is not used by other application in “Listen Port”.



The screenshot shows the 'Event Server Config' window. On the left, there is a sidebar with three icons: 'Service Control', 'Avigilon NVR', and 'Redwall Sensors'. The 'Redwall Sensors' icon is selected. The main area is titled 'Redwall Sensor Config'. It contains three input fields: 'Listen Address' with the value '192.168.0.1', 'Listen Port' with the value '1234', and 'Protocol' with a dropdown menu showing 'UDP'. A red rectangle highlights these three fields. To the right of these fields is a 'Save Changes' button. Below this section is the 'Add New Sensor' section, which includes 'Sensor Type' (a dropdown menu showing 'REDSCAN'), 'Sub Type' (an empty dropdown menu), and 'Sensor Node' (a text box with the value '0'). An 'Add Sensor' button is located at the bottom right of this section.

3. Click “Save Changes”, and save it.

The message window will show “Successfully Changed!”



This screenshot is similar to the previous one, showing the 'Config' window with the 'Redwall Sensor Config' tab selected. The 'Listen Address' is '192.168.0.1', 'Listen Port' is '1234', and 'Protocol' is 'UDP'. In this image, the 'Save Changes' button is highlighted with a red rectangle. The 'Add New Sensor' section remains the same, with 'Sensor Type' set to 'REDSCAN', 'Sub Type' empty, and 'Sensor Node' set to '0'.



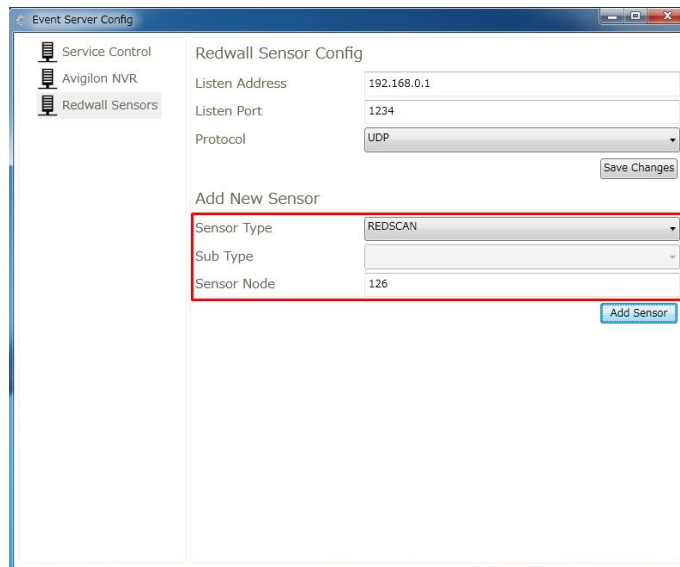
### 5.3 Adding sensors

1. Click "Redwall Sensors" Tab.

2. Choose the sensor type which is sending the R.E.C. in "Sensor Type".

When you choose PIE-1 in "Sensor Type", choose the series of the sensor in "Sub Type".

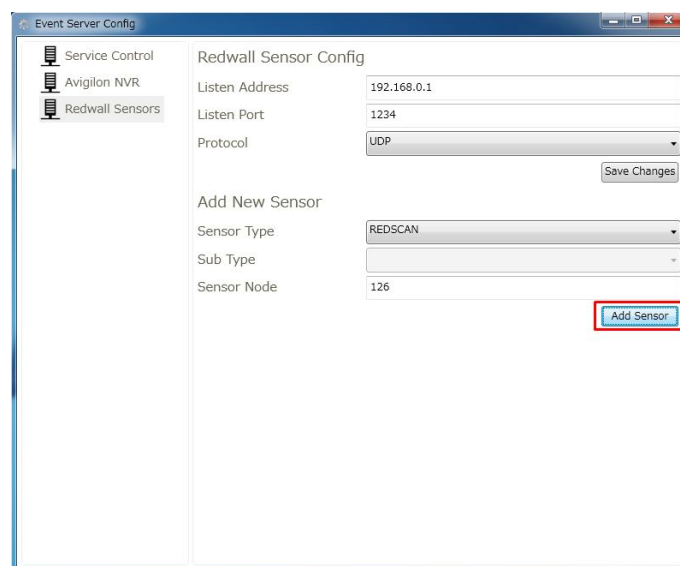
Enter Sensor ID of host sensor in "Sensor Node". (This is the last 3 digits of the IP address or the Arbitrary ID if enabled in sensor Event Code settings.)



The screenshot shows the 'Event Server Config' window with the 'Redwall Sensors' tab selected. The 'Redwall Sensor Config' section contains fields for 'Listen Address' (192.168.0.1), 'Listen Port' (1234), and 'Protocol' (UDP). Below this is the 'Add New Sensor' section, which is highlighted with a red box. It contains three fields: 'Sensor Type' (set to REDSCAN), 'Sub Type' (empty), and 'Sensor Node' (set to 126). There is a 'Save Changes' button and an 'Add Sensor' button.

3. Click "Add Sensor", and add the information of the host sensor.

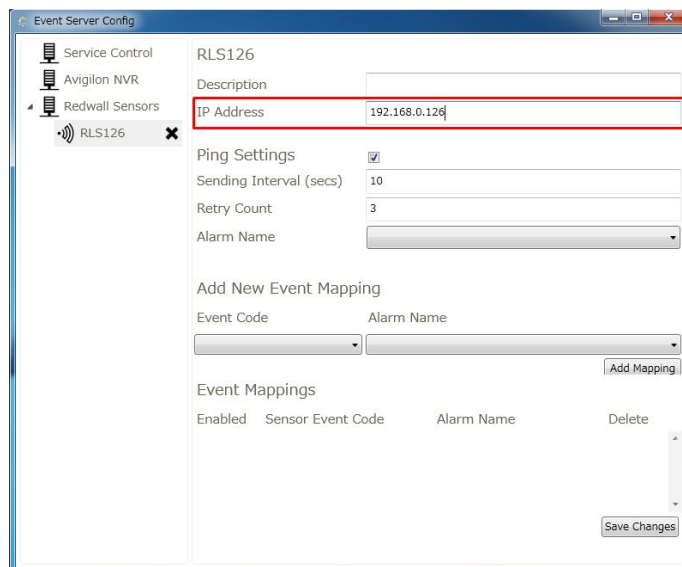
"RLSXXX" or "PIEXXX" (XXX is the value of Sensor Node) will be added under "Redwall Sensors"



This screenshot is identical to the previous one, showing the 'Event Server Config' window with the 'Redwall Sensor Config' tab. The 'Add New Sensor' section is still highlighted with a red box, showing 'Sensor Type' set to REDSCAN, 'Sub Type' empty, and 'Sensor Node' set to 126. The 'Add Sensor' button is now highlighted with a red box.

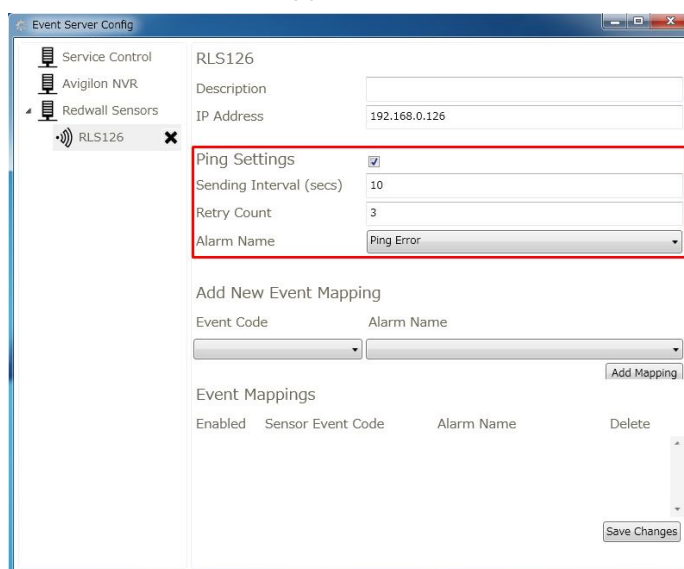
#### 5.4 Setting for supervision, and linking between R.E.C. and ACC alarm.

1. Select "RLSXXX" or "PIEXXX" from "Redwall Sensors" Tab.
2. Enter "Description" if necessary.
3. Enter sensor IP address in "IP Address".



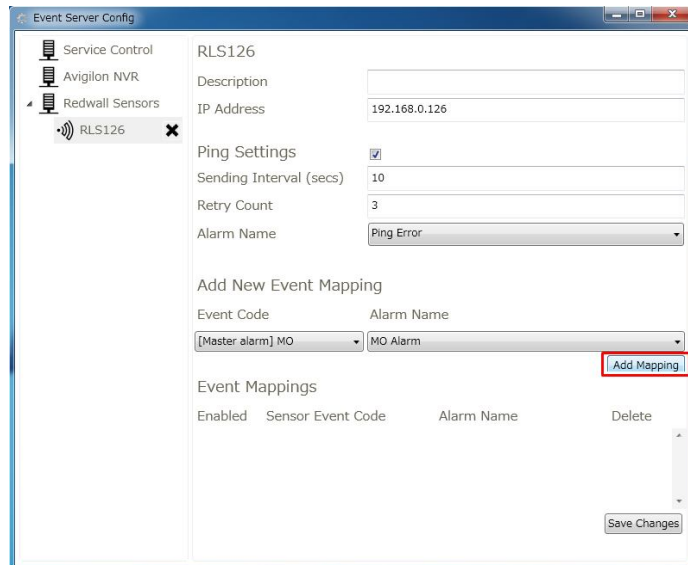
The screenshot shows the 'Event Server Config' window. On the left, a tree view shows 'Service Control', 'Avigilon NVR', and 'Redwall Sensors'. Under 'Redwall Sensors', 'RLS126' is selected. The main area shows the configuration for 'RLS126'. The 'IP Address' field is highlighted with a red box and contains the value '192.168.0.126'. Other fields include 'Description', 'Ping Settings' (checked), 'Sending Interval (secs)' (10), 'Retry Count' (3), and 'Alarm Name' (a dropdown menu). Below these are sections for 'Add New Event Mapping' and 'Event Mappings'.

4. Tick in "Ping Settings" box to enable device supervision.  
Enter Sending interval time of Ping (1 – 10 sec) this is how often the device is monitored.  
Choose ACC alarm which is used as trigger of device disconnection at "Alarm Name"

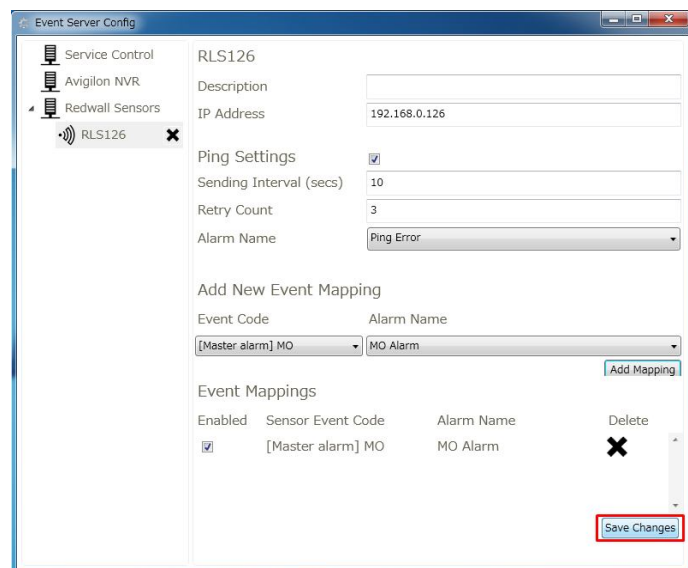


This screenshot shows the same 'Event Server Config' window as the previous one, but with the 'Ping Settings' section highlighted by a red box. The 'Ping Settings' checkbox is checked. The 'Sending Interval (secs)' is set to 10, and the 'Retry Count' is 3. The 'Alarm Name' dropdown menu is now set to 'Ping Error'. The 'IP Address' field still contains '192.168.0.126'.

5. Choose the R.E.C under “Event Code” which is used as trigger of ACC alarm.
6. Choose ACC alarm which should be generated by the R.E.C at “Alarm Name”.
7. Click “Add Mapping”, and add the link setting.  
(It shows in “Event Mappings” if you successfully added.)  
Confirm “Enabled” is checked.



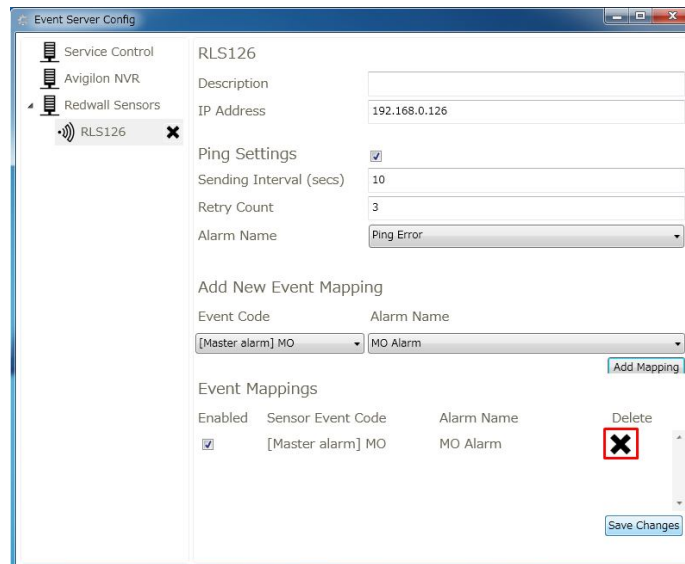
8. Click “Save Changes”, and save the contents of settings.  
Note. Unless clicking “Save Changes” any changes are not saved.  
Please don't forget to click “Save Changes” if you changed any settings in this window.



9. It shows “Successfully Changed!” if the save is succeeded.

## 5.5 Delete event mapping between R.E.C. and ACC alarm.

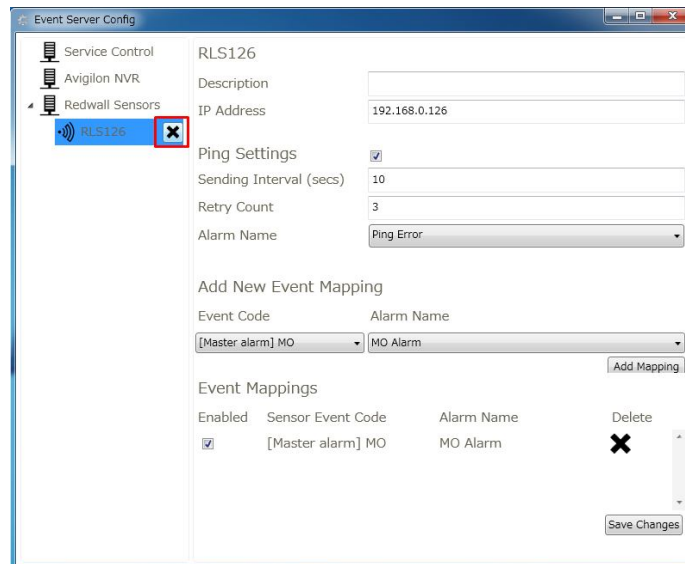
1. Under "Redwall Sensors" Tab select "RLSXXX" or "PIEXXX"
2. Click "X" which is displayed next to the link setting in "Event Mappings".



3. Click "Save Changes", and save the settings.  
(Event in "Event Mappings" is removed if you successfully saved the settings.)

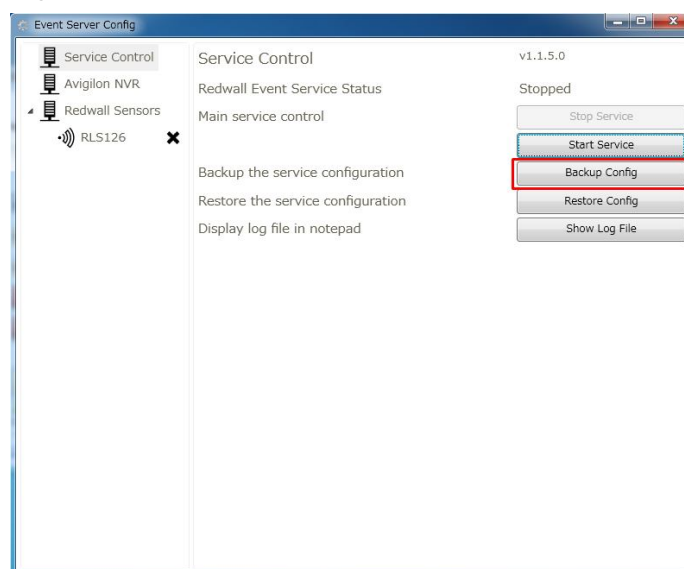
## 5.6 Delete sensors

1. Under Redwall Sensors Tab.
2. Click "X" of the sensor you wish to delete.



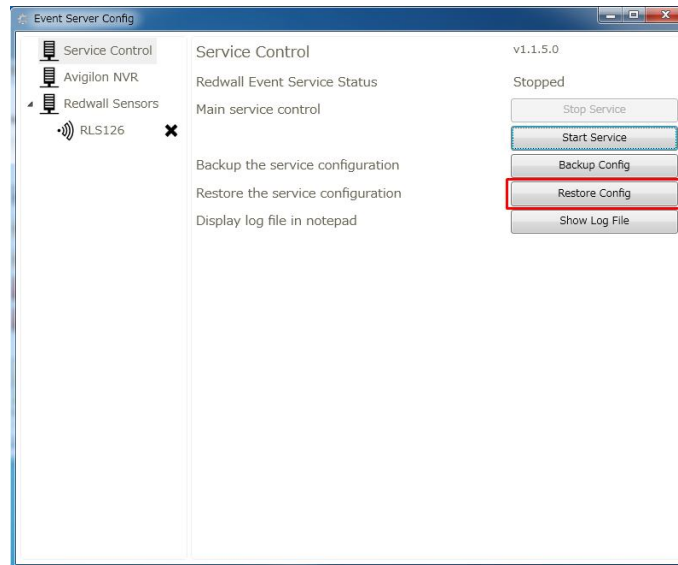
## 5.7 Export settings

1. Under "Service Control" Tab.
2. Click "Backup Config", and enter the file name and save folder, then click "Save".



## 5.8 Import settings

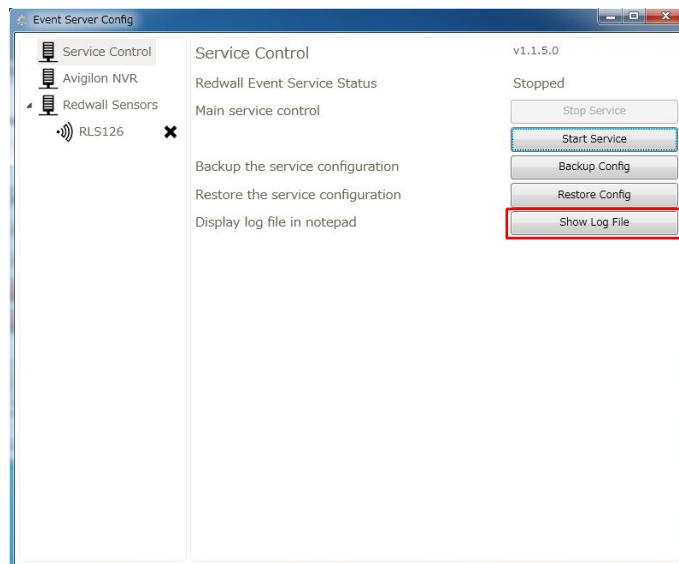
1. Under “Service Control” tab.
2. If “Redwall Event Service Status” is “Running”, click “Stop Service”.
3. Click “Restore Config”, and select the file which is you wish to import.  
(It shows the message, if it is successfully loaded. After that, reboot Event Server Config)



4. Click “Start Service” in “Service Control”

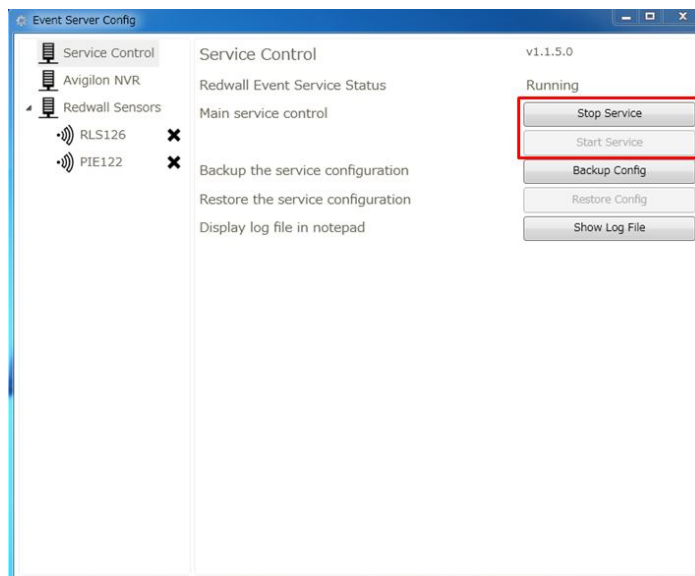
## 5.9 Display the log

1. Under “Service Control” Tab.
2. Click “Show Log File”



## 5.10 Start/Stop Service

1. Under “Service Control” Tab.
2. Click “Stop Service” or “Start Service”.



## 6 List of Redwall Event Code (R.E.C.)

### 6.1 REDSCAN

OPTEX Sensor Information		REDWALL Event Code	Description
Sensor Type	Sub Type		
REDSCAN		[Master alarm] MO	Receive R.E.C. including "MO"
		[Clear code] CL	Receive R.E.C. including "CL"
		[Combi code] AA	Receive R.E.C. including "AA"
		[Combi code] bA	Receive R.E.C. including "bA"
		[Combi code] ba	Receive R.E.C. including "ba"
		[Combi code] BA	Receive R.E.C. including "BA"
		[Combi code] Ba	Receive R.E.C. including "Ba"
		[Combi code] BB	Receive R.E.C. including "BB"
		[Priority code] A1	Receive R.E.C. including "A1"
		[Priority code] A11	Receive R.E.C. including "A11"
		[Priority code] A12	Receive R.E.C. including "A12"
		[Priority code] A2	Receive R.E.C. including "A2"
		[Priority code] A21	Receive R.E.C. including "A21"
		[Priority code] A22	Receive R.E.C. including "A22"
		[Priority code] B1	Receive R.E.C. including "B1"
		[Priority code] B11	Receive R.E.C. including "B11"
		[Priority code] B12	Receive R.E.C. including "B12"
		[Priority code] B2	Receive R.E.C. including "B2"
		[Priority code] B21	Receive R.E.C. including "B21"
		[Priority code] B22	Receive R.E.C. including "B22"
		[+ combi] A1	Receiving R.E.C. that is after "A1" without combination code
		[+ combi] A11	Receiving R.E.C. that is after "A11" without combination code
		[+ combi] A12	Receiving R.E.C. that is after "A12" without combination code
		[+ combi] A2	Receiving R.E.C. that is after "A2" without combination code
		[+ combi] A21	Receiving R.E.C. that is after "A21" without combination



			code.
		[+ combi] A22	Receiving R.E.C. that is after "A22" without combination code
		[+ combi] B1	Receiving R.E.C. that is after "B1" without combination code
		[+ combi] B11	Receiving R.E.C. that is after "B11" without combination code
		[+ combi] B12	Receiving R.E.C. that is after "B12" without combination code
		[+ combi] B2	Receiving R.E.C. that is after "B2" without combination code
		[+ combi] B21	Receiving R.E.C. that is after "B21" without combination code
		[+ combi] B22	Receiving R.E.C. that is after "B22" without combination code
		[Trouble code] AM	Receiving R.E.C. including "AM"
		[Trouble code] AR	Receiving R.E.C. including "AR"
		[Trouble code] DQ	Receiving R.E.C. including "DQ"
		[Trouble code] SO	Receiving R.E.C. including "SO"
		[Trouble code] TA	Receiving R.E.C. including "TA"
		[Trouble code] TR	Receiving R.E.C. including "TR"
		[Clear code for AM] am	Receiving R.E.C. including "am"
		[Clear code for AR] ar	Receiving R.E.C. including "ar"
		[Clear code for DQ] dq	Receiving R.E.C. including "dq"
		[Clear code for SO] so	Receiving R.E.C. including "so"
		[Clear code for TA] ta	Receiving R.E.C. including "ta"
		[Clear code for TR] tr	Receiving R.E.C. including "tr"

## 6.2 PIE-1

OPTEX Sensor Information		REDWALL Event Code	Description
Sensor Type	Sub Type		
PIE-1	Redwall Series	[Master alarm] MO	Receive R.E.C. including "MO"
		[Clear code] CL	Receive R.E.C. including "CL"
		[Combi code] XY	Receive R.E.C. including "XY"
		[Combi code] YZ	Receive R.E.C. including "YZ"
		[Combi code] XZ	Receive R.E.C. including "XZ"
		[Priority code] FR	Receive R.E.C. including "FR"
		[Priority code] NR	Receive R.E.C. including "NR"
		[Priority code] CR	Receive R.E.C. including "CR"
		[Priority code] FN	Receive R.E.C. including "FN"
		[+ combi] FR	Receiving R.E.C. that is after "FR" without combination code
		[+ combi] NR	Receiving R.E.C. that is after "NR" without combination code
		[+ combi] CR	Receiving R.E.C. that is after "CR" without combination code
		[+ combi] FN	Receiving R.E.C. that is after "FN" without combination code
		[Trouble code] TA	Receive R.E.C. including "TA"
		[Trouble code] TR	Receive R.E.C. including "TR"
		[Clear code for TA] ta	Receive R.E.C. including "ta"
		[Clear code for TR] tr	Receive R.E.C. including "tr"
	Redbeam Series	[Master alarm] MO	Receive R.E.C. including "MO"
		[Clear code] CL	Receive R.E.C. including "CL"
		[Combi code] XY	Receive R.E.C. including "XY"
		[Priority code] A1	Receive R.E.C. including "A1"
		[Priority code] A2	Receive R.E.C. including "A2"
		[+ combi] A1	Receiving R.E.C. that is after "A1" without combination code
		[+ combi] A2	Receiving R.E.C. that is after "A2" without combination code

		[Trouble code] TA	Receiving R.E.C. that is after "TA" without combination code
		[Trouble code] ta	Receive R.E.C. including "ta"
	Fiber Sensor Series	[Master alarm] MO	Receive R.E.C. including "MO"
		[Clear code] CL	Receive R.E.C. including "CL"
		[Combi code] XY	Receive R.E.C. including "XY"
		[Priority code] A1	Receive R.E.C. including "A1"
		[Priority code] A2	Receive R.E.C. including "A2"
		[+ combi] A1	Receiving R.E.C. that is after "A1" without combination code
		[+ combi] A2	Receiving R.E.C. that is after "A2" without combination code
		[Trouble code] TA	Receive R.E.C. including "TA"
		[Trouble code] FA	Receive R.E.C. including "FA"
		[Clear code for TA] ta	Receive R.E.C. including "ta"
		[Clear code for FA] fa	Receive R.E.C. including "fa"
	Tamper	[Trouble code] TA	Receive R.E.C. including "TA"
		[Trouble code] TR	Receive R.E.C. including "TR"
		[Clear code for TA] ta	Receive R.E.C. including "ta"
		[Clear code for TR] tr	Receive R.E.C. including "tr"