EdgeSentry Configuration Guide

models: ES-102, ES-302, ES-304, ES-604

Overview

EdgeSentry is a network appliance for monitoring, hardening, documenting and securing IoT centric networks. EdgeSentry appliances provide real time alerts via email, client software or to an on-line network receiver. LMN Software Corp also manufactures the **ES-Monitor** network monitoring software for companies that intend to monitor potentially large numbers of EdgeSentry appliances.

EdgeSentry is designed to be simple to install and simple to understand. A novice installer should be able to complete an EdgeSentry installation on a network within an hour. A basic installation includes the following steps:

Connecting the EdgeSentry and putting it in "Learn Mode":

See the EdgeSentry Wiring Guide

- Choosing a basic monitoring configuration (Isolation Mode vs Integration Mode)
- Connecting the appliance to a network switch's SPAN or MIRROR port
- Setting the EdgeSentry network addresses
- Initial configuration of EdgeSentry using LMN's Configuration Tool software (available at: https://www.lmnsoftwarecorp.com/easy-install.html)

Configuring EdgeSentry:

Covered in this guide:

- Setting up Notifications and Receivers
- Naming devices
- Authorizing devices
- Device supervision
- Setting up UPSs for monitoring
- Port and protocol monitoring

Once an EdgeSentry has learned the network, an advanced installation could include setting up interfaces to the site's layer 2-3 network switches. There are also a number of special topics that you may want to address at this point, such as managing nuisance alarms ("Spam"), hardening the network and setting up active security.

Setting up Network Switch Hardening, Active Security and Site documentation:

See Switch Interface Guide

- Adding managed network switches to EdgeSentry
- Hardening the network switches
- Mapping the network
- Setting up active security
- Generating site documentation

Fine Tuning an EdgeSentry installation:

See the Full EdgeSentry Configuration Manual

- Managing alerts and "spam"
- Adding Users to EdgeSentry
- Setting up outbound email alerts
- Setting up EdgeSentry backups and reporting to a local/remote receiver
- Restarting Learn Mode
- Changing the EdgeSentry device password
- UPS Monitoring

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Downloading EdgeSentry Configuration Tool

All of the sections in this manual require use of the EdgeSentry Configuration Tool software. Note that this software is client software for a technician laptop or PC and cannot be run on the EdgeSentry device.

Download the software from:

https://www.lmnsoftwarecorp.com/easy-install.html

First Connection

When you launch the EdgeSentry for the first time you will have to add your EdgeSentry sites to the login screen. The EdgeSentry devices are added as either "Add New Configured Site or a "Login to New-Unconfigured Site

EdgeS Configura	entry tion Tool	If this is a new, unconfigured EdgeSentry click on
Configured St With Home IP Address Part St 102 Proof Mice State error St 102 Proof Mice State error St 102 Proof Mice State error	The List Number of the Num Num to the Num 923 + ii + 923 + ii +	"Login to New- Unconfigured Site" otherwise select "Add New Configured Site".
New-Unconfigured EdgeSentry Site Name Queensway Plant Site IP Address 192.168.0.233	New-Unconfigured Site / Config Fill in a site name, the site IP add number (49992 is the default sit Click "Add to Site List"	ured Site dialogue Iress and the site port e port number).
Port Number 49992 Connect To Site Add to Site List	Click " Connect to Site ". The next time you connect to the in the Configured Sites List.	e site it should be listed
If this is the first time the site is heirs		

If this is the first time the site is being configured, you will be forced to set a new Administrator connection password and to read and confirm the End User License Agreement.

I/ Add the	new Aumin Use	er (+) then Dele	FIRST ete the Defa	LOGI ult Entry	n steps	
Login Name	Password	First Name	Last Name	User Type	Email Address	Add Delete Edit
Delete this Ent	ry ********	FirstName	LastName	USER		+ 1 /
2/ Read and	Acknowledge	the End User L	icense Agre	eement		
2/ Read and	Acknowledge	the End User L	icense Agre	eement		
2/ Read and END USER SOFI LMN Software (User Software L agrees that Lice Licensee's use of	Acknowledge WARE LICENSE AGREEMEI 'orp. ("Licensor 1) licensor 1 cense Agreement (the "Lic rsee will abide by, and is lo the Software is subject to	the End User L NT his software and all assoc ense") and understands, sgally bound by, the term the following terms and	icense Agre	con (the "Softwar sly agrees to ab Licensee does no	e") for nonexclusive us de by the terms and co tt agree to abide by th	e by the end user (herein called "Licensee"). Licensee has re onditions of this License. By using the Software, Licensee ac e terms of this License, Licensee shall not install or use the S
2/ Read and END USER SOFT LMN Software (User Software L agrees that Lice Licensee's use c (1) LICENSE	Acknowledge WARE LICENSE AGREEMEI 'orp, ("Licensor 1) licensor 1 cense Agreement (the "Lic rsee will abide by, and is la the Software is subject to	the End User L NT his software and all assoc rense?) and understands, gaply bound by, the term the following terms and	icense Agre iated documentatio accepts and express s of this License. If L 'conditions:	eement on (the "Softwar sly agrees to ab Licensee does no	e") for nonexclusive us de by the terms and co tt agree to abide by th	e by the end user (herein called "Licensee"). Licensee has re onditions of this License. By using the Software. Licensee ac e terms of this License, Licensee shall not install or use the S

- 1/ Click the "+" sign and add a new Administrative User with a username and password
- 2/ Delete the existing "Delete this Entry" user by clicking on the Delete icon next to it.
- 3/ Read the **End User License Agreement** and click the **Acknowledge** box at the bottom.
- 4/ **Log Out** of the site and log back in using your new credentials.

Putting the EdgeSentry in Learn Mode



Site Information

Fill out the information in the Site Information screen, paying particular attention to the four settings highlighted below. Once this is done, press "SAVE" and the EdgeSentry will go into Learn Mode for the next 24-36 hours.



Getting Started

Wiring, powering up and putting the EdgeSentry in learn mode is covered in the **Wiring Guide**. Once the EdgeSentry has been configured with an IP address and the IP Address has been set in the EdgeSentry using the Configuration Tool, the EdgeSentry will switch into "learn mode". Learn mode takes between 24 and 36 hours to complete and requires that the EdgeSentry be running continuously for 24 hours.

The System Status Page



A/ Upload a list of device names into EdgeSentry:

1/ Create a spreadsheet with the IP address of each device in column 1 and the device

name in column 2. Ensure that there are no commas in the device names.

2/ Save the file as a csv file.

3/ From the Configuration Tool **System Status** page, go to **Import a List of Device**

Names and click on "**Select a CSV File**". Navigate to the file with your device names 4/ Click on "**Start Import**" – the system will notify you of the number of devices names that were matched.

Notifications Page

The primary use of the Notifications Page is to set up how EdgeSentry reports its status to either the client or a security integrator. This menu is used to set up email notifications or backup and reporting to an EdgeSentry Receiver. If the client is monitoring the site themselves using the **EdgeSentry Dashboard**, then there is no need to configure these settings.

				About EdgeSentry 🥡
< ::	E	Mail Account	t and Notifications	
EMail Alerts	Receiver Setup	Alarm Shunt	Trust Lists	SNMP Manager
EMail Account Set	up: (j)			
C Account Address Replace this	EMail Server From Address smtp.gmail.com from address	Port Password 587	Send Delete Test Account	
Notifications Setu	p: EMail Re	eports: ①	EMail Alerts: ①	
P test@testaddress.ca	Enable Status Port Tracked Useage Device	Baseline Off LAN New Tam Report Report Device - UF V V V V V	per New Tracked Comm. Tracked Off LAN Add Delet S Conn. Device Failure Ports Connect	•

The Notifications menu is for managing outbound communications from the EdgeSentry. Most basic configurations will include alert notifications being sent by email and/or alerts being communicated to an EdgeSentry Receiver. The Alarm Shunt and Trust Lists pages are covered in the manual sections on Alarm Management.

Basics of setting up an email account

EdgeSentry currently uses SMTP for outbound emails and this requires that you have a simple SMTP account. There are a number of services that provide free or low cost outbound SMTP Email services. Brevo is one such service, though there are many others out there. Please note that Gmail has enhanced their security such that you cannot use a Gmail account as the outbound SMTP account.

Shown below is the default view of the outbound SMTP account configuration in the Notifications menu.

EMail Account Setup:	\bigcirc						
Account Address	EMail Server	From Address	Port	Password	Send Test	Delete Account	
Replace this	smtp.gmail.com	from address	587			I	Refresh

Fill in the following information:

1/ The outbound account name – this is usually an email address under which the SMTP service was configured.

2/ The SMTP service will provide you with a Email Server address

3/ You need to provide a "from" email address – this can be anything as long as it is in a recognizable email form.

4/ The SMTP Service will also provide you with a default port to use - often this will be 587

5/ Enter your SMTP service password.

EMail Account Setup:	$(\mathbf{\hat{l}})$							
Account Address	EMail Server smtp-relay.sendinblue.	From Address alerts@lmnsoftwarecorp.com	Port 587	Password	Send Test	Delete Account	Refresh	

6/ Press the **SAVE** button. Note that the password will disappear after it has been entered correctly and saved.

Click on the double check mark ("Send Test") to test the email. Note that the email will send to the "from" address you have entered. After about a minute, a message will appear showing that the email sent correctly or showing an error in the communications. Note that this message checks communications from the EdgeSentry to the mail service but not beyond. If the "from" address is non-existent, that will not cause the test email to fail!

		-		Sand Dalata
Account Address	EMail Server	Fre		
john@lmnsoftwarecorp.com	smtp-relay.sendinb	e. a		
-22		Email was sent su	ccessfully!	
				Close
				ciose

Adding Email Recipients – Alerts and Reports

Once the email account is testing correctly, add an email recipient by clicking the green "+".

Notifications Setu	p:		EMail Re	ports: 🛈)				EN	1ail A	lerts: (ī	
Recipient EMail	Enable Status Report	Port Useage	Tracked Device	Baseline Report	Off LAN Report	New Device	Tamper N - UPS C	lew Tra ionn. Dev	cked Comm vice Failure	Tracked Ports	Off LAN Connect	Add	Delete
test@testaddress.ca	✓ None	∨ None	∨ None	~ ~	~	~	×	×	× ×	1	 ✓ 	+	

The "Add Email Recipient" popup will appear on screen.

Ad	dd EMail R	ecipient						
	Recipient EMail name@EmailA	ddress.com	Enable EMail	Alarm Report None 🗸	Port Useage Report None 🗸	Tracked Device Report None 🗸	Baseline Report	Off LAN Report
	EMail Alerts: New Device	i Tamper Alert	New Connection	Tracked Device	Comm. Failure	Tracked Ports	Off LAN Connect	
			Save	e Recipient C	lose Window			

Fill in the following fields:

1/ Recipient Email

2/ If you want to start sending email notifications right away, click the Enable Email box (it will turn blue when enabled)

3/ Select reports that you want to have sent to the recipient and the required frequency.

4/ Click on the alerts you want the recipient to receive. DO NOT select all email alerts – this will likely cause "spamming" which may be enough to busy out your SMTP service!

If this is a new installation and you are unsure of what to add, use the following guidelines:

Reports:

- Use the Alarm or Status Report as the basic daily summary of activity on the system

Alerts:

For **security alerts** check the "New Device" box. Do not select "Off LAN Connections" until you have verified that all PC connections have been set to "ignore outbound" in the Devices page. See the **Full EdgeSentry Configuration Manual** section on "**Preventing SPAM**" for more details.

Notifications Setu	p:	EMail Reports: 🛈	EMail Alerts: ①
Recipient EMail	Enable Status Port Report Useage	Tracked Baseline Off LAN N Device Report Report D	lew Tamper New Tracked Comm. Tracked Off LAN Add Delete Device - UPS Conn. Device Failure Ports Connect
john@Imnsoftwarecorp.com	✓ Daily ∨ None	∨ None ∨ ✓	V
test@testaddress.ca	✓ None ∨ None	V None V V	< < < < < + i

For **communications alerts** select "Comm Failure" and (optionally) "Tamper and UPS" alerts. "Tracked Ports" should only be selected if you have selected some ports and protocols to be alarmed on in the Ports menu AND you have verified that there are not devices currently using those ports on your system. If you alarm a port that is currently being used on your network, this could generate hundreds of alerts very quickly (SPAM).

Setting up a Receiver

Click on "Receiver Setup" on the top menu bar.

EMail Alerts	Receiver Setup	Alarm Shunt	Trust Lists	SNMP Manager
	Receiver 1			Receiver 2
Enabled: O	ff Priority: • Primary) Secondary	Enabled: Off	Priority: O Primary O Secondary
Receiver Name:			Receiver IP Address:	
Port #: Notes: - Acc	ess credentials (instance name, user name a	and password) must be unique for each rec	eiver. Notes: - Access of	edentials (instance name, user name and password) must be unique for e
Instance Name:		in the spaces below.	Instance Name:	
Username:			Username:	
- On Instance Name: Username: Password:	Ceredentials are saved they are NOT show	ni ni the spaces below.	- Once cre Instance Name: Username: Password:	Save Receiver 2 Delete Receiver 2

To set up a receiver, you should have the following information:

1/ EdgeSentry Site Number (set in the Site information menu) – note that this must be a unique number

- 2/ Receiver IP Address
- 3/ Receiver Port Number
- 4/ Receiver Instance Name (this is set at the receiver at the time it was configured)

5/ Receiver Credentials –*identical usernames and passwords cannot be used for both receivers*. Note that the username and password will disappear after they have been entered successfully. You can update other receiver parameters without having to re-enter the receiver credentials.

Fill out each of the required fields:

Enabled	(click to toggle)
Receiver Name	A common name for the receiver, alphanumeric only (no special characters)
Receiver IP	Numeric only
Port Number	Numeric only
Instance Name	AlphaNumeric, must match the name used in the receiver setup
User Name	Alphanumeric, no special characters
Password number	Minimum 9 characters, minimum one uppercase, one lowercase, one

After the receiver has been saved in the EdgeSentry there will be a pause of up to 5 minutes before the EdgeSentry starts communicating with the Receiver. You can check the communication status of the EdgeSentry by logging into the receiver and checking the following:

- The EdgeSentry site number is showing as a monitored site
- During the first 10 minutes of communication the site number will show in the "Communication Error" window. It will stay listed here until it has completed 10 consecutive minutes of communications.

Working with Devices – the Devices Page

There are two critical fields in the Devices Page – the device name/location and the "Product Type" setting. Ensure that these are configured as a minimum, though choosing and configuring a device supervision strategy is also highly recommended.

Note that the makeup of Devices page will vary depending on whether the EdgeSentry has been placed in Isolation Mode or Integration Mode. Do not change the mode of the EdgeSentry without being sure that you understand the implications of the change. If you need more information on changing between modes, see the EdgeSentry **Wiring Guide**.

~	Devices										
::	Sort By: · · ·	Authorize ALL		Turn Off Tracking							
"	Name/Location Ip Address Router - Home Network 192.168.0.1	Product Type Auth Track Behaviour Monitor Idle-Tim	Allowed Ignore Device Type	Manufacturer Mac Address Synology Incorporated 00:11:32:ED:9E:9F	Model Number Delete						
•	Rear Yard Thermal 192.168.0.233	□oT ∨ ✓ ✓ 50 Not M	nitored \checkmark Not Ignored \checkmark	FLIR Systems Inc 00:18:D8:48:10:A8	•						
	Parking Deck Switch 192.168.0.16	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark	Allied Telesis R&D Cen 00:1A:EB:99:E5:78	•						
	Front Gate Intercom 192.168.0.146	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark -	Zenitel Norway AS 00:13:CB:06:03:2D	•						
	ES302-A 192.168.0.108	□oT ∨ ✓ ✓ 0 Not M	nitored 🗸 Ignore All 🗸 -	CompuLab, Ltd. 00:01:C0:36:31:2A	•						
2	Front gate Camera 192.168.0.32	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark -	VCS Video Communica 00:07:5F:7A:AA:7E	•						
1	IT Hallway camera 192.168.0.31	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark -	VCS Video Communica 00:07:5F:7A:AA:D2	•						
Р	Production Area Camera 192.168.0.100	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark	VCS Video Communica 00:07:5F:8B:01:2F	•						
	Main IT UPS 192.168.0.81	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark	Eaton Corporation 00:20:85:EE:E5:D0	•						
	Production Switch 192.168.0.15	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark	Aruba, a Hewlett Packa 64:E8:81:80:1C:60	•						
	Security Switch 192.168.0.2	□oT ∨ ✓ ✓ 0 Not M	nitored \checkmark Not Ignored \checkmark -	Communication Netwc 00:22:38:0A:34:E2	· •						

Devices Page – in Isolation Mode

Devices Menu Isolation Mode fields:

Device Name/Location The name/location of the device - Alphanumeric characters only

Product Type Choose one of: IoT, PC or Server

Auth Check the box if this device is Authorized to be on the network

Track If the device is NOT authorized to be on the network, check the **Track** option to track the device's connections on the network.

Behaviour Monitor Behaviour monitoring builds a profile of device connections and packet sizes to determine what is normal or abnormal device behaviour.

Idle Time Allowed Idle time monitoring allows the device to be silent on the network for a limited period of time before creating an alert. This would normally only be used for devices that don't create enough traffic to be monitored with behaviour monitoring.

Ignore The ignore function allow you to turn off alerts for off network connections for a specific device. Typically this is used only for **PC** devices and is set for **"Ignore Outbound**" connections.

Device Type (Optional field) This is a field you can use for your own purposes

Model Number (Optional field) This is a field you can use to track device model

numbers

Typical Device Settings:

IoT Product Type Auth checked, Behaviour Checked, Idle Time Not Monitored, Ignore Not Ignored

PC Product Type Auth checked, Behaviour NOT Checked, Idle Time set to 24 hours, Ignore Outbound

Server Product Type Auth checked, Behaviour Checked, Idle Time Not Monitored, Ignore Outbound

Devices Page – in Integration Mode

```								De	evices						
	Sort By: -	\sim			Auth	norize ALL				Turn	Off Tracking			Find SNMP D	evices
#	Name/Location	Ip Address 192.168.0.16	Product Type	Auth Track F	ring SNMP	Community public	Behaviour	Monitor 0	Idle-Time Allowed	gnore Not Ignored 🗸	Device Type	Manufacturer Allied Telesis R&D Cen	Mac Address 00:1A:EB:99:E5:7B	Model Number	Delete
٠	•	,] 192.168.0.233	loT 🗸	< <	< <	public	~	0	Not Monitored 🗸	Not Ignored 🗸	•	FLIR Systems Inc	00:1B:D8:48:10:A8	•]
1	•	192.168.0.128	loT \checkmark	× ×	× ×	public	~	0	Not Monitored \smallsetminus	Not Ignored \smallsetminus		AAEON Technology In	00:07:32:85:D1:8F	•	
	-	192.168.0.81	loT \checkmark	× ×	× ×	public	~	0	Not Monitored $ \smallsetminus $	Not Ignored \smallsetminus	-	Eaton Corporation	00:20:85:EE:E5:D0	-	
	-	192.168.0.1	loT 🗸	× ×	× ×	public	×	0	Not Monitored 🗸	Not Ignored \smallsetminus	-	Synology Incorporated	00:11:32:ED:9E:9F	-	
٣	-	192.168.0.146	loT 🗸	× ×	× ×	public	×	0	Not Monitored 🗸	Not Ignored \smallsetminus	-	Zenitel Norway AS	00:13:CB:06:03:2D	•	
	-	192.168.0.148	loT 🗸	× ×	× ×	public	×	0	Not Monitored \smallsetminus	Not Ignored \smallsetminus		American Power Conv	00:C0:B7:86:66:17	•	
Р	-	192.168.0.7	loT 🗸	< <	× ×	public	×	0	Not Monitored $ \smallsetminus $	Not Ignored \smallsetminus] -	Netgear	44:A5:6E:67:92:61	-	
	-	192.168.0.5	loT 🗸	< <	× ×	public	×	0	Not Monitored $ \smallsetminus $	Not Ignored \smallsetminus] -	Antaira Technologies, I	7C:CB:0D:0C:80:B8	-	
	•	192.168.0.4	loT 🗸	< <	× ×	public	~	0	Not Monitored 🗸	Not Ignored \smallsetminus	•		BC:22:28:06:B1:C0	•	
	-	192.168.0.122	loT 🗸	< <	× ×	public	×	0	Not Monitored $ \smallsetminus $	Not Ignored \smallsetminus	•	Universal Global Scien	E0:4F:43:99:0D:8F	•	

Devices Menu Integration Mode fields:

Device Name/Location only	n The name/location of the device - Alphanumeric characters
Product Type	Choose one of: IoT, PC or Server

Auth Check the box if this device is Authorized to be on the network

Track If the device is NOT authorized to be on the network, check the **Track** option to track the device's connections on the network.

Ping EdgeSentry will periodically ping the selected device to ensure that it is present on the network.

SNMP EdgeSentry will use **SNMP ver 1 Read-Only** to verify the device is functional and to verify the device's MAC Address. Note that the device has to have SNMP ver 1 enabled with the same community name.

Community If using SNMP to monitor a device, set the community field to the same community used in the device.

Behaviour Monitor Behaviour monitoring builds a profile of device connections and packet sizes to determine what is normal or abnormal device behaviour.

Idle Time Allowed Idle time monitoring allows the device to be silent on the network for a limited period of time before creating an alert. This would normally only be used for devices that don't create enough traffic to be monitored with behaviour monitoring.

Ignore The ignore function allow you to turn off alerts for off network connections for a specific device. Typically this is used only for **PC** devices and is set for **"Ignore Outbound**" connections.

Device Type (Optional field) This is a field you can use for your own purposes

Model Number(Optional field) This is a field you can use to track device model

numbers

Typical Device Settings:

IOT Product Type Auth checked, Either PING or Behaviour Checked, Idle Time Not Monitored, Ignore Not Ignored

PC Product Type Auth checked, PING and Behaviour NOT Checked, Idle Time set to 24 hours, Ignore Outbound

Server Product Type Auth checked, Behaviour Checked, Idle Time Not Monitored, Ignore Outbound

Adding UPS Monitoring - The UPS Monitoring Page

In order for EdgeSentry to monitor a UPS it must meet the conditions outlined below. If you are using the EdgeSentry in Isolation mode, then you may also be required to move the UPSs onto a dedicated network so that you can use SNMP version 1 read only without putting traffic onto the monitored network.

		UPS Monitoring
	Sort By:	
A	Device List - Click to Select a UPS	UPS List:
•	Name/Location Ip Address Manufacturer Router - Home Network 192.168.0.1 Symology Incorporated	Add to List-> Name/Location Ip Address Enabled Manufacturer Community Test Delete Main UPS 192.168.0.148 American Power Conve public Image: Convert State Image: Convert State Image: ConvertState
	Rear Yard Thermal 192.168.0.233 FLIR Systems Inc Parking Deck Switch 192.168.0.16 Allied Telesis R&D Cerr	Main IT UPS 192.168.0.81 🔽 Eaton Corporation public 💞 🖺
2	Front Gate Intercom 192.168.0.146 Zenitel Norway AS	
	ES302-A 192.168.0.108 Compulab, Ltd.	
Р	Front gate Camera 192.168.0.32 VCS Video Communica	
	IT Hallway camera 192.168.0.31 VCS Video Communica	
	- 192.168.0.100 VCS Video Communica	
	Main IT UPS 192.168.0.81 Eaton Corporation	
	Production Switch 192.168.0.15 Aruba, a Hewlett Packa	
	Security Switch 192.168.0.2 Communication Netwo	
Log Out	UPS Devices: 2	

EdgeSentry is able to monitor any UPS that meets all of the following conditions:

- 1/ Supports the SNMP UPS MIB RFC 1628
- 2/ Has a network interface card for SNMP communications and is networked
- 3/ Has SNMP version 1 Read-Only enabled

Note that if you are using Isolation mode on your EdgeSentry, you may have to discuss the use of SNMP ver 1 with the site IT department and get their agreement to place the UPSs on a separate network dedicated to UPS monitoring.

To add a UPS for monitoring:

Name/Location	Ip Address	Manufacturer
Router - Home Network	192.168.0.1	Synology Incorporate
Rear Yard Thermal	192.168.0.233	FLIR Systems Inc
Parking Deck Switch	192.168.0.16	Allied Telesis R&D Ce
Front Gate Intercom	192.168.0.146	Zenitel Norway AS
	•	
ES302-A	192.168.0.108	CompuLab, Ltd.
Front gate Camera	192.168.0.32	VCS Video Communia
IT Hallway camera	192.168.0.31	VCS Video Communia
	192.168.0.100	VCS Video Communia
Main IT UPS	192.168.0.81	Eaton Corporation
Production Switch	192.168.0.15	Aruba, a Hewlett Pack
Security Switch	192.168.0.2	Communication Netw

1/ Scroll through the device list at the left until you find a UPS to monitor. Click on the device to select it (it will outline in a blue rectangle)

2/ click on the "Add to List ->" button. The UPS will appear in the UPS List.

3/ Click the "Test" button.



4/ A confirmation will appear confirming that the UPS can be monitored with EdgeSentry.

The Port Monitoring Page

By default, EdgeSentry will monitor the network for use of FTP and Telnet. If EdgeSentry is in Isolation mode it is advisable that you also add SNMP to the port monitoring list – enable this by clicking on the box next to port 25 in the **Port Monitoring List** and clicking on "**SAVE**" at the bottom of the screen.

(Port	t M	Ionitoring	
				Enable All			Disable All
	Port 21 22 23 25	Туре ТСР ТСР ТСР ТСР ТСР	Enabled	Port Use FTP - Exploits: Numerous SSH - Note - used by EdgeSentry ES200 Telnet - Exploits: Numerous SMTP - Note used by EdgeSentry	Add + + +	Delete	
P	53 67 68 69 80	TCP/UDP UDP UDP UDP TCP	Y Y Y Y	DNS - Exploits: Numerous Worms, Trojans Bootstrap Protocol Server, Apple NetBoot Bootstrap Protocol Client - Exploits: Backdoor.SubSeven Trojan TFTP - Exploits: Numerous Tojans. W32 threats HTTP, Age of Empires. Numerous Games - Exploits: Numerous Trojans	+ + + +		
Log Out	Ports Defined:	46		SAVE			CANCEL

EdgeSentry will create priority alerts for any monitored/forbidden network port/protocols that are used on the network. Furthermore, the EdgeSentry switch interface functionality can allow you to block use of monitored or forbidden ports.

To enable a port for monitoring:

- Scroll through the list and find the port if it is pre-configured. Check the "Enabled" box for that port.

If the port is not pre-configured, check the "+" icon.

Add Port t	o List	
Port#	Port Type	Enabled
Port Use (if know	m)	

1/ Input the port number (numeric only)

2/ Select TCP, UPD or TCP/UDP

3/ Enable the port monitoring for this port

4/ Provide a description of why you are monitoring for this behaviour or a reference to the device it pertains to.

5/ Click "Save Port" and the port will be added to the list.

Completion of the Basic EdgeSentry Configuration

Once you have completed these steps, the EdgeSentry is configured for monitoring. There are steps that may need to be taken at a later date to manage nuisance alerts or authorize additional devices that have been added to the network. These steps are covered in the **Full EdgeSentry Configuration Manual**.

Additionally you may want to add the site's Layer 2/3 network switches to the EdgeSentry configuration. The EdgeSentry network switch integration provides the following benefits:

- Easily find the switch and port number where any device is connected to the network
- Harden the network switches against intrusion
- Add network switch alerts to EdgeSentry
- View switch loading and PoE usage in simple to understand diagrams
- View the topology of your network and detect any unknown uplinks
- Enable active security for EdgeSentry Alerts

In order to add switches to the EdgeSentry, they must be managed switches that are on the EdgeSentry supported switches list on the website. See the EdgeSentry **Switch Interface Guide** for the configuration steps.