

# User's Guide

## SecuReporter

Default L	ogin Details	Version 2.5.19 Edition 1, 08/2024
Login URL	https://secureporter.cloudcnm.zyxel.com	
Email	Zyxel Account Email Google Account Email Apple ID Email	
Password	Zyxel Account Password Google Account Password Apple ID Password	



#### **IMPORTANT!**

#### **READ CAREFULLY BEFORE USE.**

#### KEEP THIS GUIDE FOR FUTURE REFERENCE.

Screenshots and graphics in this book may differ slightly from what you see due to differences in release versions or your computer operating system. Every effort has been made to ensure that the information in this manual is accurate.

Note: The version number on the cover page refers to the version number you can see on the bottom of the log in screen of the SecuReporter.

#### **Related Documentation**

• User's Guides

Go to the download library of the Zyxel website to get a supported Zyxel Device User's Guide to see how to configure the Zyxel Device using the Web Configurator on the Zyxel Device.

Go to the download library of the Zyxel website to get a supported Zyxel Device Command Line Interface (CLI) Reference Guide to see how to configure the Zyxel Device using the CLI on the Zyxel Device.

Go to the Zyxel Nebula Control Center portal to get the NCC User's Guide to see more infromation about SecuReporter.

More Information

Go to *support.zyxel.com* to find other information on SecuReporter.



## **Document Conventions**

#### Warnings and Notes

These are how warnings and notes are shown in this guide.

#### Warnings tell you about things that could harm you or your device.

Note: Notes tell you other important information (for example, other things you may need to configure or helpful tips) or recommendations.

#### Syntax Conventions

- The Cloud CNM SecuReporter may be referred to as "SecuReporter" in this guide.
- Product labels, screen names, field labels and field choices are all in **bold** font.
- A right angle bracket (>) within a screen name denotes a mouse click. For example, Analysis > Security Indicator > URL Threat Filter > by Destination IP means you first click Analysis in the navigation panel, then the Security Indicator sub menu, then the URL Threat Filter tab, and finally the by Destination IP tab to get to that screen.

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## CHAPTER 1 Introduction

## 1.1 Overview

SecuReporter is a cloud-based analytics tool that is part of the Cloud CNM suite developed by Zyxel. It can aggregate logs from up to 40,000 supported Zyxel Security Appliances across distributed locations, giving network administrators a centralized view of security events and flow data, including the hostname, IP address, MAC address of the client devices.

Reports are generated using security intelligence techniques and automated data correlation with realtime traffic analytics, as opposed to merely relying on static and predefined rules. Insights relevant to a network's security environment are available at a glance on an intuitive dashboard.

#### 1.1.1 Supported Zyxel Devices and Firmware Versions

At the time of writing of this User's Guide, SecuReporter supports the following Zyxel Devices:

SUPPORTED MODELS	SUPPORTED VERSION
USG FLEX 100	Version 4.50 or later
USG FLEX 200	
USG FLEX 500	
USG FLEX 100W	Version 4.60 or later
USG FLEX 700	
USG FLEX 100AX	Version 5.37 or later
USG FLEX 100H(P)	Version 1.10 or later
USG FLEX 200H(P)	
USG FLEX 500H	
USG FLEX 700H	
USG FLEX 50H(P)	Version 1.30 or later

Table 1 Supported Zyxel Devices and Firmware Versions

Note: If your product is not listed in the table above, please refer to the official announcement posted in *https://www.zyxel.com/products\_services/Security-Service-Cloud-CNM-SecuReporter/license-and-spec* for the SecuReporter's availability.

Note: At the time of writing, the ZyWALL ATP series, ZyWALL USG FLEX series, ZyWALL USG FLEX 50(AX) series, and ZyWALL VPN series have reached End of Life, but device license services are still available.

Screens and widgets vary depending on the Zyxel Devices that you use. This table summarizes some of the features that are only available for the USG FLEX H series, ZyWALL ATP series, ZyWALL USG FLEX series,

and ZyWALL USG FLEX 50(AX) series.

SUPPORTED FEATURES	USG FLEX H SERIES	USG FLEX SERIES	USG FLEX 50(AX) SERIES	ATP SERIES
Sandboxing	Yes	Yes (with Gold Security Pack)	No	Yes
Reputation Filter	Yes	Yes (with Gold Security Pack)	No	Yes
Web Filtering	Yes	Yes	Yes	Yes
Anti-Malware	Yes	Yes	No	Yes
IPS	Yes	Yes	No	Yes
Application Patrol	Yes	Yes	No	Yes
Device Insight	Yes	Yes	Yes	Yes
Traffic Usage	Yes	Yes	Yes	Yes

Table 2	Footures Supported	on the Turel Devices
Table 2	reatures supported	on the Zyxer Devices

#### 1.1.2 SecuReporter Management Privileges

A Zyxel Device owner can register a Zyxel Device at *https://account.zyxel.com*. Only an owner can add Zyxel Devices to an organization. However, an owner can assign other people to manage Zyxel Devices.

This table summarizes SecuReporter privileges at each level of the model:

ROLE TYPES	SIGN IN AT ZYXEL ACCOUNT?	PRIVILEGES
Agent (Owner)	Yes	<ul> <li>Can add/delete Zyxel Devices to/from an organization</li> <li>Can add/edit organizations</li> <li>Can add/edit admin/user accounts</li> <li>Can configure alert notifications</li> <li>Can configure dashboard widgets</li> <li>Can configure analyses and reports</li> <li>Can create request for transfer of analytics and logs</li> <li>Can import analytics and logs</li> <li>Can create log download request and download archived logs</li> </ul>
Admin	Yes	<ul> <li>Can add/edit organizations</li> <li>Can configure alert notifications</li> <li>Can configure dashboard widgets</li> <li>Can configure analyses and reports</li> <li>Can import analytics and logs</li> <li>Can download archived logs</li> </ul>
User	Yes	<ul> <li>Can configure dashboard widgets</li> <li>Can view analyses and report</li> <li>Can configure alert notifications</li> <li>Can import analytics and logs</li> </ul>

Table 3 SecuReporter Management Privileges

#### 1.1.3 License Options

You can use SecuReporter with a free 30-day Trial license or buy a 1-year device license. You will receive a renewal notification before either expires. In addition, for the SecuReporter license, you will have an extra 15 day grace period to renew.

Note: SecuReporter will automatically delete logs when the grace period has expired.

#### 1.1.4 Cloud Mode

In cloud mode, you can manage and monitor the Zyxel Device through the Zyxel Nebula cloud-based network management system. This means you can manage devices remotely without the need of connecting to each device directly. It offers many features to better manage and monitor not just the Zyxel Device, but your network as a whole, including supported switches and gateways. Your network can also be managed through your smartphone using the Nebula Mobile app.

The Nebula Control Center (NCC) allows different levels of management. You can configure each device on its own or configure a set of devices together as a site. You can also monitor groups of sites called organizations, as shown below.

Table 4 NCC management Levels

Organization			
Site A		Site B	
Device A-1	Device A-2	Device B-1	Device B-2

Some features are not supported for certain models in cloud mode. Please go to the NCC to view or configure them.

FEATURES	ATP / USG FLEX / USG FLEX 50 (AX) / VPN SERIES	USG FLEX H SERIES			
Add/delete Zyxel Devices to/from an organization	No	No			
Add/edit admin/user accounts	No	No			
Configure alert notifications	No	No			
View traffic/event log	No	Yes			
View CPU/memory/session usage	No	Yes			

Table 5 Features Supported in Cloud Mode

## 1.2 Get Started

Use a browser that supports HTML5, such as Google Chrome, Mozilla Firefox, Safari, or Microsoft Edge. The recommended minimum screen resolution is 1366 by 768 pixels. In order to use SecuReporter you need to allow web browser pop-up windows from your computer.

To set up SecuReporter:

1 You must enable SecuReporter on a supported Zyxel Device. Refer to the User's Guide of the supported Zyxel Device for instructions.

- 2 Register the Zyxel Devices using the same Zyxel Account. To open an account at Zyxel, go to *account.zyxel.com* and click **Create an account**, or sign in with your Google or Apple account.
- **3** After you register the Zyxel Devices, follow the on-screen instructions to activate the SecuReporter license for the registered Zyxel Devices.

Once you are in the SecuReporter web portal, configure an organization with the Zyxel Devices.

Note: See Section 6.1 on page 94 for an overview of how to get started using SecuReporter.

On your next login after configuring an organization, select an **Organization** first. Your registered devices will be shown in **Device**.

Figure 1 Select Organization and Device on Startup

🧑 SecuReporter	Organization:	🎯 Demo	٣	Device:	ATP200	Ŧ

### 1.3 Title Bar

The title bar provides some useful links that always appear over the screens below. If your Zyxel Device is in NCC mode, not all icons will be available in the Title Bar.

Figure 2 Title Bar



The icons provide the following functions.

Table 6 Title	e Bar: ۱	Web	Configurato	r Icons
---------------	----------	-----	-------------	---------

LABEL	DESCRIPTION
?	Click this to open the help, access the Download Library, or visit the Community.
$\overline{\cdots}$	Click this to set up the following:
	<ul> <li>Organization &amp; Device – you see all organizations that you have already created and the Zyxel Devices (Model, Device and License Status).</li> </ul>
	<ul> <li>Members – to assign an administrator or user for organizations or Zyxel Devices within organizations that you created.</li> </ul>
\$Q1	Click this to turn on or off SecuReporter's dark mode display.
0 0 0 0 0 0 0 0 0	Click this to show a list of apps provided by Zyxel available.
myZyxel	Click this to open the myZyxel website login page in a new tab or window.
Nebula	Click this to open the Nebula portal login page in a new tab or window.
SecuReporter	Click this to open the SecuReporter website login page in a new tab or window.

LABEL	DESCRIPTION
<b>S</b> Astra	Click this to open the Astra website login page in a new tab or window.
Circle	Click this to open the Circle website login page in a new tab or window.
Marketplace	Click this to open the Zyxel Account website login page in a new tab or window. You will be redirected to the Marketplace after you log in.
Store	Click this to open the Zyxel store website lin a new tab or window.
Education	Click this to open the Education Center website in a new tab or window.
💬 Community	Click this to go to Zyxel Community, where you can get the latest Zyxel Device information and have conversations with other people by posting your messages.
H	Click this to view your account name, manage your account information (edit Profile, change Password, set up Two-Factor Authentication), or to log out.

Table 6 Title Bar: Web Configurator Icons (continued)

### 1.4 Threat History

Refer to the right portion of the **Dashboard** to view the origins of attack packets detected by SecuReporter over the last 7 days.

The map pins identify the locations from which threats had originated. Pin color indicates the type of the attacks. A bigger pin means more threats.

reat History in 7 Days on Map			
			<ul> <li>ADP</li> <li>Mail Protection</li> <li>Antivirus / Malware</li> <li>IPS</li> <li>Multiple Threats</li> </ul>
Top Attack Origins		Top Attack Targets	
<ul> <li>Ireland</li> <li>United States</li> <li>The Netherlands</li> <li>UNKNOWN</li> <li>Others</li> </ul>	798 Hits (34%) 581 Hits (24%) 146 Hits (6%) 111 Hits (5%) 746 Hits (31%)	No Attac	<b>X</b> k Torgets
Top Attack Types		Top Attack Time Period	
IPS Antivirus / Malware Mail Protection ADP	777 Hits (33%) 734 Hits (31%) 462 Hits (19%) 409 Hits (17%)	9:00 - 12:00 9:00 - 12:00 12:00 - 15:00 12:00 - 15:00 Others	108 Hits (5%) 108 Hits (5%) 106 Hits (4%) 105 Hits (4%) 1,955 Hits (82%)
Top Attackers IP Address		Top Attacked IP Address	1
100.27.42.242 104.21.92.165 29.223.17.211 2.1.9.80	248 Hits (10%) 109 Hits (5%) 62 Hits (3%) 62 Hits (3%)	190.47.118.222 148.147.177.179 188.142.90.163 184.17.248.219	62 Hits (3%) 61 Hits (3%) 57 Hits (2%) 56 Hits (2%)
Others	1,901 Hits (80%)	Others	2,146 Hits (90%)

#### Figure 3 Threat History

#### 1.4.1 Details

Click a pin on the **Threat History in 7 Days on Map** to view more information about the threats detected from that location.

The following table describes the labels on this screen.

LABEL	DESCRIPTION
Attack Type	This displays the type of attack that was detected coming from the site. Common types of attacks include ADP, IPS, Malware (Anti Virus), spam, content filter, and mixed.
Hits	This displays the number of times a single threat was sent from a site and blocked by the Zyxel Device. Click the arrow to arrange the threats by the number of hits.
Top Attack Origins	This displays the percentage of the threat's source country.
Top Attack Targets	This displays the percentage of the threat's destination country.
Top Attack Types	This displays the percentage of the type of attack.
Top Attack Time Period	This displays the percentage of the 3-hour time frame when the attacks occur.
Top Attackers IP Address	This displays each threat's source IP.
Top Attacked IP Address	This displays each threat's destination IP.

Table 7 Threat History

## 1.5 Dashboard

The **Dashboard** shows the key facts about your network's security environment that were collected by SecuReporter in the last 30 days, 7 days, 24 hours, one hour, or custom range.

You need to create an organization with at least one Zyxel Device for information to display in the **Dashboard** – go to (More)  $\bigcirc$  (upper right icon) > **Organization & Device** > **Add Organization**.

By default, the dashboard will have the **Alert Detected**, **License Status**, **Security Indicator**, and **Traffic Usage** widgets. Widgets are miniature views of SecuReporter's data visualizations, the full versions of which are available under the Security Indicators, Network Activity, Traffic and Device screens.

Alert Detected		License Status		
77 Alerts De	tected in 7 Days		ays Remaining	
Security Indicator			Last 7 days ~	
ADP Hits	Antivirus / Malwa	URL Threat Filter	IP Reputation Hits	
404	731	1,053	730	
	5,598 scanned	9,070 scanned	5,525 scanned	
IPS Hits	Mail Protection H	Sandboxing Hits	DNS Threat Filter	
765	495	747	738	
10 577 area and	10.551 compand	2 220 account	700	
10,527 scanned	10,351 scanned	6,329 scanned	a,aas sounned	
Traffic Usage			Last 24 hours v	
Top 3 Bandwidth Ho	stname	Top 3 Bandwidth MA	c	
PC-SERVICES	218.7 MB (30.19%)	7b:ba:c7:a9:fc:6e	218.7 MB (30.19%)	
MI9T-MI9T	218.6 MB (30.17%)	5e:7b:85:5d:5c:d5	218.6 MB (30.18%)	
ATP200	219.6 MD (20.17%)	c0:16:f5:e5:1f:50	210 6 MD (20 17%)	
—	210.0 IVIB (30.1776)		210.0 MB (30.17%)	
Top 3 Bandwidth Use	ər	Top 3 Application Usage		
Steven	439.8 MB (60.70%)	Tunneling	655.8 MB (90.91%)	
Kari	218.9 MB (30.21%)	Web	64.8 MB (8.98%)	
Paul	29.4 MB (4.06%)	Instant Messaging	465.4 KB (0.07%)	
Top 3 Destination Co	buntry	Top 3 Destination Po	rt	
United States	664.2 MB (91.68%)	443	721.3 MB (99.56%)	
Thailand	57.5 MB (7.93%)	80	905.9 KB (0.13%)	
Germany	471.9 KB (0.07%)	587	452.0 KB (0.06%)	

#### Figure 4 Default Dashboard

The following table describes the widgets on the default dashboard:

LABEL	DESCRIPTION
Alert Detected	This is the total number of the latest alerts sent to administrators of a network in the last 7 days.
License Status	This shows if your SecuReporter license is active or inactive, and the number of days remaining.
Security Indicator	

LABEL	DESCRIPTION
	Select the time frame to show your network's security environment collected by SecuReporter.
	<ul> <li>Last hour</li> <li>Last 24 hours</li> <li>Last 7 days</li> <li>Last 30 days</li> <li>Custom Range – click an allowed start and end day, select the time frame, and then click Apply.</li> </ul>
ADP Hits	This displays the total number of anomalies detected by the Zyxel Devices. Anomalies are based on violations of protocol standards (RFCs – Requests for Comments) or abnormal flows such as port scans.
Antivirus / Malware Hits	This displays the total number of the most common malware and viruses detected and blocked by the Zyxel Device.
URL Threat Filter Hits	This displays the total number of times the Zyxel Device's URL Threat filtering service detected and blocked connection attempts to or from a site in an URL threat category.
IP Reputation Hits	This displays the total number of times packets coming from an IPv4 address with a bad reputation occur and the number of times connection attempts to an IPv4 address with a bad reputation occur.
IPS Hits	This displays the total number of malicious or suspicious packets detected by IPS in the Zyxel Devices. IPS (Intrusion, Detection and Prevention) uses signatures to detect malicious or suspicious packets to protect against network-based intrusions.
Mail Protection Hits	This displays the total number of the most common traffic classified as spam received by the Zyxel Devices.
Sandboxing Alerts	This displays the total number of files that have been scanned through the sandboxing function.
DNS Threat Filter Hits	This displays the total number of URLs of FQDNs classified as a security threat to network devices behind the Zyxel Device.
Traffic Usage	
	Select the time frame to show your network traffic collected by SecuReporter.
	<ul> <li>Last hour</li> <li>Last 24 hours</li> <li>Last 7 days</li> <li>Custom Range – click an allowed start and end day, select the time frame, and then click Apply.</li> </ul>
Top 3 Bandwidth User	This displays the top three users of bandwidth on the network including percentage over a selected time frame, which is 7 days by default.
Top 3 Application Usage	This displays the network applications with the greatest bandwidth usage including percentage over a selected time frame, which is 7 days by default.
Top 3 Destination Country	This displays the top three countries that received the most data traffic from Zyxel Devices including percentage, over a selected time frame.
Top 3 Destination Port	This displays the top three destination ports by bandwidth usage including percentage, over a specified time frame, which is 7 days by default.

 Table 8
 Default Dashboard (continued)

## CHAPTER 2 Analysis

## 2.1 Overview

**Analysis** is a set of charts, tables, and other visualizations of data collected from Zyxel Devices. Analysis provides a big-picture overview of network activity, while making it easy to "drill down" into granular detail on what users are doing.

#### 2.1.1 Tutorial

In the Analysis section, the charts can be clicked to reveal event records.

In most cases, you can choose to analyze data collected over one of five time frames (see Section 1.5 on page 12):

- Last hour
- Last 24 hours
- Last 7 days
- Last 30 days
- Custom Range click an allowed start and end day, select the time frame, and then click Apply.

This tutorial uses the following example to show how to explore an URL threat filter hit detail that you want to investigate, specifically by destination IP.

1 Click Analysis > Security Indicator > URL Threat Filter.



Click the by Destination IP tab. To display the next set of malware or viruses, click the arrow on the lower 2 left of the screen.

JRL Threat Filter	Hit Detail				
by Hostname	by MAC Address	by Threat Website	by Type	by Source IP	by Destination IP
Destination IP				Hits	%
139.45.197.253				38	4 %
92.53.68.202				34	3 %
157.240.30.18				28	3 %
92.53.68.205				23	2 %
92.53.68.201				21	2 %
184.105.192.2				20	2 %
199.59.242.153				18	2 %
49.51.65.78				15	1%
178.175.131.194				14	1%
106.75.136.101				13	1%
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Figure 6 Top 10 URL Threat Filter Hit Detail > by Destination IP

The following screen appears.

L Threat Filter	Hit Detail						
by Hostname	by MAC Address	by Threat Website	by Type	by Source IP	by Destination IP		
Destination IP				Hits	%		
39.45.197.253				38	4 9	%	
2.53.68.202				34	3 9	%	
57.240.30.18				28	3 5	%	
2.53.68.205				23	2 9	%	
2.53.68.201				21	2 9	%	
84.105.192.2				20	2 9	%	
99.59.242.153				18	2 9	%	
9.51.65.78				15	1%	%	
78.175.131.194				14	1%	%	
06.75.136.101				13	1%	%	
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. . . . с**т** . \_... \_ ... \_ .....

Clicking a **Destination IP** will display its **Threat Website** address, the number of **Hits**, and the percentage (%) of hits to the destination IP address. 3

Note: You could select different metrics by clicking a tab to view the information of the selected metric.

Figure 8 by Source IP

by Hostname	by MAC Address	by Threat Website	by Type	by Source IP	by Destination IP	
Source IP				Hits	%	
192.168.34.200				22	2 %	
192.168.19.93				20	2 %	
192.168.105.193				19	2 %	
192.168.120.21				19	2 %	
192.168.210.7				18	2 %	
192.168.91.155				18	2 %	
192.168.1.149				18	2 %	
192.168.103.242				17	2 %	
192.168.168.255				17	2 %	
192.168.158.153				17	2 %	
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4 Clicking a **Source IP** will display its **Threat Website** address, the number of **Hits**, and the percentage (%) of hits from the source IP address.



Figure 9 Source IP Information

#### 2.1.2 Sandboxing

Zyxel cloud sandboxing is a security mechanism which provides a safe environment to separate running programs from your network and host devices. Unknown or untrusted programs or codes are uploaded to a cloud server and executed within an isolated virtual machine (VM) to monitor and analyze the zero-day malware and advanced persistent threats (APTs) that may evade the Zyxel Device's

detection, such as anti-malware. Results of cloud sandboxing are sent from the server to the Zyxel Device.

The Zyxel Device sandbox checks all received files against its local cache for known malicious or suspicious codes. Files with no detected malicious or suspicious codes found in the cache ('unknown') are copied and uploaded to the security cloud server for further inspection. The scan result from the cloud server is added to the Zyxel Device cache and used for future inspection.

- Note: The Zyxel Device forwards all unknown files to users. For files with known malicious or suspicious codes, you can configure the Zyxel Device to take specific actions, such as dropping the file.
- Note: The scan result is removed from the Zyxel Device cache after the Zyxel Device restarts, so all files are once again 'unknown'.

Figure 10 General Zyxel Sandbox Inspection



In the Zyxel Device, you can configure **Advanced Zyxel Sandbox Inspection** to hold and inspect unknown downloaded files for up to 2 seconds. After 2 seconds the Zyxel Device forwards the file even if the inspection is incomplete.

Figure 11 Advanced Zyxel Sandbox Inspection



#### 2.1.2.1 Supported File Types for Sandboxing Inspection

Sandbox can only check the types of files listed under File Submission Options in the Sandboxing screen of the Zyxel Device. If you disabled Scan and detect EICAR test virus in the Anti Malware screen, then EICAR test files will be sent to Sandbox.

The EICAR test file is a standardized test file for signature based anti-malware scanners. When the scanner detects the EICAR file, it responds in the same way as if it found a real malware. Besides straightforward detection, the EICAR file can also be compressed to test whether the anti-malware software can detect it in a compressed file.

Note: Configure this setting on your Zyxel Device.

#### 2.1.2.2 Turning on Sandboxing on Your Zyxel Device

To use the sandboxing function, you need to register your Zyxel Device and activate the service license at myZyxel, and then turn on the sandboxing function on the Zyxel Device.

#### 2.1.2.3 Sandboxing Alerts

SecuReporter sends sandboxing alerts to Zyxel Device administrators when:

1 The Zyxel Device forwarded files that were later discovered to be suspicious or malicious.

Note: In this case the Zyxel Device administrator should immediately contact the receiver of the file and advise him or her not to open it. If he or she already opened it, then urge him or her to run an up-to-date anti-malware scanner.

2 The Zyxel Device sandbox (or Security Cloud) removed infected portions of files that were suspicious or malicious.

Note: In this case the receiver of the file will not be able to open the file. The Zyxel Device administrator should contact the receiver of the file to let him or her know.

### 2.2 Analysis Overview

Click **Analysis** > **Security Indicator** to show data visualizations related to the network's security, management and what was blocked. The following screens will be displayed.

Data is displayed in the Analysis menus as follows.

LABEL	TYPE	DESCRIPTION
Security Indicator	ADP	ADP Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Signature
		Top Signature Type
		Top Source IP
		Top Destination IP
		ADP Hit Detail
	IP Reputation	IP Reputation Scanned (Connection Amount)
		IP Reputation Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Risk IP
		Тор Туре
		Top Source IP
		Top Destination IP
		IP Reputation Hit Detail
	IPS	IPS Scanned (Connection Amount)
		IPS Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Signature
		Top Signature Type
		Top Source IP
		Top Destination IP
		IPS Hit Detail
	DNS Threat Filter	DNS Threat Filter Scanned (Connection Amount)
		DNS Filter Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Threat Domain
		Top Threat Category
		Top Source IP
		Тор Query Туре
		DNS Threat Filter Hit Detail
		URL Threat Filter Scanned (Website Amount)

 Table 9
 Analysis Overview

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LABEL	ТҮРЕ	DESCRIPTION
Security Indicator	URL Threat Filter	URL Threat Filter Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Threat Website
		Тор Туре
		Top Source IP
		Top Destination IP
		URL Threat Filter Hit Detail
	Antivirus / Malware	Antivirus / Malware Scanned (File Amount)
		Antivirus / Malware Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Virus / Malware
		Top Source IP
		Top Destination IP
		Antivirus / Malware Hit Detail
	Sandboxing	Sandboxing Scanned (File Amount)
		Sandboxing Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top File Type
		Top File Name
		Top File Hash
		Top User
		Top Source IP
		Top Destination IP
		Sandboxing Hit Detail
	Mail Protection	Mail Protection Scanned (Mail Amount)
		Mail Protection Trend (Hits)
		Top Source Hostname
		Top Source MAC Address
		Top Spam Email Subject
		Top Spam Sender Email
		Top Spam Received IP
		Top Spam Sender IP
		Mail Protection Hit Detail

 Table 9
 Analysis Overview (continued)

LABEL	ТҮРЕ	DESCRIPTION				
Network Activity	DNS Content Filter	DNS Content Filter Scanned (Connection Amount)				
		Blocked Domain Access Trend (Hits)				
		Allowed Domain Access Trend (Hits)				
		Top Accessed Blocked Domain				
		Top Accessed Blocked Category				
		Top Accessed Allowed Domain				
		Top Accessed Allowed Category				
		Top Source IP (To Blocked Domain)				
		Top Accessed Blocked Query Type				
		Top Source IP (To Allowed Domain)				
		Top Accessed Allowed Query Type				
		Blocked Domain Access History				
		Allowed Domain Access History				
	App Patrol	Blocked Application Access Trend (Hits)				
		Allowed Application Access Trend (Hits)				
		Top Accessed Blocked Application				
		Top Accessed Blocked Application Type				
		Top Accessed Allowed Application				
		Top Accessed Allowed Application Type				
		Blocked Application Access History				
		Allowed Application Access History				
	Web Content Filter	Website Scanned (Website Amount)				
		Blocked Website Access Trend (Hits)				
		Allowed Website Access Trend (Hits)				
		Top Accessed Blocked Website				
		Top Accessed Blocked Website Type				
		Top Accessed Allowed Website				
		Top Accessed Allowed Website Type				
		Top Source IP (To Blocked Website)				
		Top Destination IP (To Blocked Website)				
		Top Source IP (To Allowed Website)				
		Top Destination IP (To Allowed Website)				
		Blocked Website Access History				
		Allowed Website Access History				
Traffic	Top Source Hostname					
	Top Source MAC Address					
	Top Bandwidth User					
	Top Application Usage					
	Top Destination Country					
	Top Destination Port					
	Traffic Detail					

 Table 9
 Analysis Overview (continued)

LABEL	ТҮРЕ	DESCRIPTION
Device	CPU/Memory/Session	CPU Usage Trend
		Memory Usage Trend
		Session Usage Trend
	Interface Traffic	DMZ Traffic Usage Trend
		LAN1 Traffic Usage Trend
		LAN2 Traffic Usage Trend
		OPT Traffic Usage Trend
		RESERVED Traffic Usage Trend
		WAN1 Traffic Usage Trend
		WAN2 Traffic Usage Trend

 Table 9
 Analysis Overview (continued)

## 2.3 Security Indicators

Security Indicators data visualizations are categorized as:

- ADP
- IP Reputation
- IPS
- DNS Threat Filter
- URL Threat Filter
- Antivirus / Malware
- Sandboxing
- Mail Protection

#### 2.3.1 ADP

Anomaly Detection and Prevention (ADP) protects against anomalies based on violations of protocol standards (RFCs – Requests for Comments) and abnormal flows such as port scans. This section introduces ADP, anomaly profiles and applying an ADP profile to a traffic direction.

#### **Traffic Anomalies**

Traffic anomaly policies look for abnormal behavior or events such as port scanning, sweeping or network flooding. They operate at OSI layer-2 and layer-3. Traffic anomaly policies may be updated when you upload new firmware.

#### **Protocol Anomalies**

Protocol anomalies are packets that do not comply with the relevant RFC (Request For Comments). Protocol anomaly detection includes:

• TCP Decoder

- UDP Decoder
- ICMP Decoder

Protocol anomaly policies may be updated when you upload new firmware.

The following figure shows the Analysis > Security Indicator > ADP data visualizations.

Figure 12 Analysis > Security Indicator > ADP Security Indicator ADP IP Reputation IPS DNS Threat Filter URL Threat Filter Antivirus / Malware Sandboxina Mail Protection Last 7 days ADP Trend (Hits) 12 8 8/11 16:00 8/10 16:00 8/7 16:00 8/8 16:00 8/9 16:00 8/12 16:00 8/13 16:00 Top Source Hostname Top Source MAC Address Top Signature IT-PC 11 Hits (3%) Bb:79:05:c5:06:33 11 Hits (3%) icmp-fragment 24 Hits (6%) VYTKabinet3NP 10 Hits (2%) 04:fb:49:d4:b8:a7 10 Hits (2%) ip-spoof 22 Hits (5%) pc-Brenda09 9 Hits (2%) c2:c7:80:85:ad:db 9 Hits (2%) tcp filtered portsweep 16 Hits (4%) Others 389 Hits (93%) Others 389 Hits (93%) Others 357 Hits (85%) Top Source IP Top Destination IP Top Signature Type 168 Hits (40%) 192.168.1.242 22 Hits (5%) 192.168.254.81 Scan-Detection 11 Hits (3%) TCP-Decoder 66 Hits (16%) 46.253.143.40 17 Hits (4%) 192.168.244.105 10 Hits (2%) Flood-Detection 64 Hits (15%) 10.0.0.25 16 Hits (4%) 192.168.120.21 9 Hits (2%) Others 121 Hits (29%) Others 364 Hits (87%) Others 389 Hits (93%) ADP Hit Detail by MAC Address by Signature by Type by Hostname by Source IP by De tion IP Source Hostname Hits % IT-PC 11 3 % VYTKabinet3NP 10 2% pc-Brenda09 9 2% GOLD-W8 2% amazon-66f9c566f 2 % HONOR\_10i-79d726sfsd08e0c 2% OPPO-A5 2% DELTAPC002 TEST-PC 2% 2% amazon-eb952c698 8  $\hat{}$ I Page 1 of 9 10 🔻 per page 14 .

The following table describes the labels on the **Analysis** > **Security Indicator** > **ADP** screen.

Table 10	Analysis	> Security	Indicator :	> ADP

LABEL	DESCRIPTION
ADP Trend (Hits)	This chart displays patterns in anomalies detected by the Zyxel Device. Anomalies are based on violations of protocol standards (RFCs – Requests for Comments) or abnormal flows such as port scans.
	Move your cursor over a trend line to display the number of threats encountered over time. An anomaly hit is an anomaly detected by the Zyxel Device.
Top Source Hostname	This chart displays the names of three devices that mostly send traffic to anomalous connections.
	Scroll down to <b>ADP Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the anomalies that were detected.
Top Source MAC Address	This chart displays the MAC addresses of the three devices that mostly send traffic to anomalous connections.
	Scroll down to <b>ADP Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the anomalies that were detected.
Top Signature	This chart displays the three most common anomalies detected by the Zyxel Device.
	Scroll down to <b>ADP Hit Detail</b> and click the <b>by Signature</b> tab to display details about the anomalies that were detected.
Top Signature Type	This chart displays the three most common anomaly types detected by the Zyxel Device.
	Scroll down to <b>ADP Hit Detail</b> and click the <b>by Type</b> tab to display details about the anomalies that were detected.
Top Source IP	This chart displays the IP addresses of the three devices that mostly send traffic to anomalous connections.
	Scroll down to <b>ADP Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the anomalies that were detected.
Top Destination IP	This chart displays the IP addresses of the three devices that mostly receive traffic from anomalous connections.
	Scroll down to <b>ADP Hit Detail</b> and click the <b>by Destination IP</b> tab to display details about the anomalies that were detected.
ADP Hit Detail	This displays the number of anomalies detected by the Zyxel Device, categorized by hostname, MAC address, signature, signature type, source IP address, and destination IP address.

#### 2.3.2 IP Reputation

When you register for and enable the IP reputation service, your Zyxel Device downloads signature files that identifies reputation of IPv4 addresses. You can have the Zyxel Device forward, block, and/or log packets from IPv4 addresses based on these signatures and categories.

The priority for IP Reputation checking is as below:

- White List
- Black List
- External Black List
- Local Zyxel Device Signatures

The following figure shows the Analysis > Security Indicator > IP Reputation data visualizations.



Figure 13 Analysis > Security Indicator > IP Reputation

The following table describes the labels on the Analysis > Security Indicator > IP Reputation screen.

ble 11 A	nalvsis > Securit	v Indicator >	IP Reputation
	1101y313 / 3000011	y maicator >	n nopulai

LABEL	DESCRIPTION				
IP Reputation Scanned	This chart displays the total number of connections detected by the Zyxel Device.				
(Connection Amount)	Move your cursor over a trend line to display the number of connections encountered over time.				
IP Reputation Trend (Hits)	This chart displays the number of IP reputation threats detected by the Zyxel Device.				
	Move your cursor over a trend line to display the number of threats encountered over time.				
Top Source Hostname	This chart displays the hostnames of the three devices that mostly send traffic to connections with IP addresses of poor reputation.				
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the source hostnames that were detected.				
Top Source MAC Address	This chart displays the MAC addresses of the three devices that mostly send traffic to connections with IP addresses of poor reputation.				
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the source MAC addresses that were detected.				
Top Risk IP	This chart displays the the IP addresses of the three devices that caused the most IP reputation threats.				
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by Risk IP</b> tab to display details about the IP addresses that were detected by IP Reputation. Click an IP address to display the details.				
Тор Туре	This chart displays the three most common threats posed by IPs detected by the Zyxel Device as detected by IP Reputation. Threat categories include <b>Negative Reputation</b> , <b>TOR Proxies</b> , <b>Denial of Service</b> , <b>Scanners</b> , <b>Web Attacks</b> , <b>Exploits</b> , <b>Spam Sources</b> , <b>Anonymous Proxies</b> , <b>Phishing</b> , and <b>Botnets</b> .				
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by Type</b> tab to display details about the threats posed by IPs detected by the Zyxel Device as detected by IP Reputation.				
	Note: See more details of threat categories in the ZyWALL User's Guide.				
Top Source IP	This chart displays the IP addresses of the three devices that mostly send traffic to connections with IP addresses of poor reputation.				
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses that were detected.				
Top Destination IP	This chart displays the IP addresses of the three devices that mostly receive traffic from connections with IP addresses of poor reputation.				
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses that were detected.				
IP Reputation Hit Detail	This displays the number of IP reputation threats detected by the Zyxel Device, categorized by hostname, MAC address, risk IP address, threat type, source IP address, and destination IP address.				
	See Section 2.3.2.1 on page 28 for more information on how to add or remove a risk IP address from the allow list.				

#### 2.3.2.1 Add or Remove a Risk IP Address to the Allow List

There is a blue check mark  $\checkmark$  next to the risk IP addresses that are in the allow list.

Do the following to add a risk IP address to the allow list:

1 Go to the Analysis > Security Indicator > IP Reputation screen and scroll down to IP Reputation Hit Detail and click the by Risk IP tab. click the 🕑 button next to the risk IP address.

Reputation H	t Detail					
by Hostname	by MAC Address	by Risk IP	by Type	by Source IP	by Destination IP	
						Eo
Risk IP	Hit	S	%			
1.1.1.1	693	3	100 %		A	dd to Allow List 📀 >
H A Pa	ge 1 of1 ▶	H				10 🔻 per page

2 The following window pops up, click Allow to add the risk IP address to the allow list.

Allow Risk IP Access	
Are you sure you want to allow? T address to the Allow List.	he action will add this IP
Note: May take a few minutes to	apply.
	Cancel Allow

Do the following to remove a risk IP address from the allow list:

1 Go to the Analysis > Security Indicator > IP Reputation screen and scroll down to IP Reputation Hit Detail and click the by Risk IP tab. Click the 😢 button next to the risk IP address.

IP Reputation Hi	t Detail				
by Hostname	by MAC Address	by Risk IP	by Type	by Source IP	by Destination IP
					Eo
Risk IP	Hits		%		
1.1.1.1 🥑	627		100 %		Remove from Allow List 📀 >
N A Pag	ge 1 of1 ▶	M			10 🔻 per page

2 The following window pops up, click **Remove** to remove the IP address from the allow list.

low List.
utes to apply.
ites to upply.

#### 2.3.3 IPS

An IPS profile is a set of packet inspection signatures.

A signature is a pattern of malicious or suspicious packet activity. You can specify an action to be taken if the system matches a stream of data to a malicious signature. You can change the action in the profile screens. Packet inspection examine OSI (Open System Interconnection) layer-4 to layer-7 packet contents for malicious data. Generally, packet inspection signatures are created for known attacks while anomaly detection looks for abnormal behavior.

Changes to the Zyxel Device's IPS settings affect new sessions, but not the sessions that already exists before you apply the new settings.

The following figure shows the **Analysis** > **Security Indicator** > **IPS** data visualizations.



Figure 14 Analysis > Security Indicator > IPS

The following table describes the labels on the **Analysis** > **Security Indicator** > **IPS** screen.

Tabla 12	Analycics	Socurity	Indicator >	
	Alialysis >	Security	inuicator 2	1113

LABEL	DESCRIPTION
IPS Scanned (Connection Amount)	This chart displays the total number of connections detected by the Zyxel Device.
	Move your cursor over a trend line to display the number of connections encountered over time.
IPS Trend (Hits)	This chart displays the number of malicious or suspicious packets detected by IPS in the Zyxel Devices. IPS (Intrusion Prevention System) uses signatures to detect malicious or suspicious packets to protect against network-based intrusions.
	Move your cursor over a trend line to display the number of threats encountered over time.
Top Source Hostname	This chart displays the hostnames of the three devices that mostly send traffic to malicious or suspicious connections.
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the source host names that were detected.
Top Source MAC Address	This chart displays the MAC addresses of the three devices that mostly send traffic to malicious or suspicious connections.
	Scroll down to <b>IP Reputation Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the source MAC addresses that were detected.
Top Signature	This chart displays the top three malicious or suspicious packets detected by IPS in the Zyxel Devices.
	Scroll down to <b>IPS Hit Detail</b> and click the <b>by Signature</b> tab to display details about the intrusions that were detected.
Top Signature Type	This chart displays the top three malicious or suspicious packet types detected by IPS in the Zyxel Devices.
	Scroll down to <b>IPS Hit Detail</b> and click the <b>by Type</b> tab to display details about the intrusions that were detected.
Top Source IP	This chart displays the source IP addresses of the top three incoming malicious or suspicious packets detected by IPS in the Zyxel Devices.
	Scroll down to <b>IPS Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the incoming malicious or suspicious packets.
Top Destination IP	This chart displays the destination IP addresses of the top three incoming malicious or suspicious packets detected by IPS in the Zyxel Devices.
	Scroll down to <b>IPS Hit Detail</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses of the incoming malicious or suspicious packets.
IPS Hit Detail	This displays the number of malicious or suspicious packets detected by the Zyxel Device, categorized by hostname, MAC address, signature, signature type, source IP address, and destination IP address.

#### 2.3.3.1 Threat Intelligence

Click any item in the **by Signature** table to view the malicious or suspicious packets detected by IPS in detail.



Figure 15 Top Signature Details

#### 2.3.4 DNS Threat Filter

A Domain Name System (DNS) server records mappings of FQDN (Fully Qualified Domain Names) to IP addresses. A FQDN consists of a host and domain name. For example, www.zyxel.com is a fully qualified domain name, where "www" is the host, "zyxel" is the second-level domain, and "com" is the top level domain.

DNS filtering inspects DNS queries made by clients on your network and compares the queries against a database of blocked or allowed Fully Qualified Domain Names (FQDNs).

If a user attempts to connect to a suspect site, where the DNS query packet contains an FQDN with a bad reputation, then a DSN query is sent from the user's computer and detected by the DNS Filter.

The Zyxel Device DNS threat filter will either drop the DNS query or reply to the user with a fake DNS response using the default dnsft.cloud.zyxel.com URL (where the user will see a "Web Page Blocked!" page) or a custom IP address.

The following type of DNS queries is allowed by the Zyxel Device:

• Type "A" for IPv4 addresses

The Zyxel Device replies with a DNS server error for the following types of DNS queries:

• Enter "AAAA" for IPv6 addresses

- Enter "NS" (Name Server) to get information about the authoritative name server
- Enter "MX" (Mail eXchange) to request information about the mail exchange server for a specific DNS domain name
- Enter "CNAME" (Canonical Names) that specifies a domain name that has to be queried in order to resolve the original DNS query
- Enter "PTR" (Pointer) that specifies a reverse query (requesting the FQDN corresponding to the IP address you provided
- Enter "SOA" (Start Of zone Authority) used when transferring zones

Click Analysis > Security Indicator > DNS Threat Filter to display the configuration screen as shown next.



The following table describes the labels on the Analysis > Security Indicator > DNS Threat Filter screen.

LABEL	DESCRIPTION
DNS Threat Filter Scanned (Connection Amount)	This chart displays the total number of connections detected by the Zyxel Device.
	Move your cursor over a trend line to display the number of connections encountered over time.
DNS Threat Filter Trend (Hits)	This chart displays the number of URLs of FQDNs that may pose a security threat to network devices that were scanned.
	Move your cursor over a trend line to display the number of URLs of FQDNs encountered over time.
Top Source Hostname	This chart displays the three most common source hostnames of the incoming malicious or suspicious files.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the source hostnames.
Top Source MAC Address	This chart displays the three most common source MAC addresses of the incoming malicious or suspicious files.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the source MAC addresses.
Top Threat Domain	This chart displays the three most common URLs of FQDNs that may pose a security threat to network devices behind the Zyxel Device.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by DNS Filter Domain</b> tab to display details about the URLs of FQDNs.
Top Threat Category	This chart displays the three most common categories of FQDNs that may pose a security threat to network devices behind the Zyxel Device.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by Threat Category</b> tab to display details about the categories of FQDNs.
Top Source IP	This chart displays the three most common source IP addresses of the incoming malicious and/or suspicious files.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses.
Top Query Type	This chart displays the three most commaon types of DNS (Domain Name System) record of the security threat to network devices behind the Zyxel Device.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by Query Type</b> tab to display details about the DNS (Domain Name System) record type.
DNS Threat Filter Hit Detail	This displays the number of malicious or suspicious packets detected by the Zyxel Device, categorized by hostname, MAC address, threat domain, threat category, source IP address, and destination IP address.
	See Section 2.3.4.1 on page 36 for more information on how to add or remove a threat domain from the allow list.

 Table 13
 Analysis > Security Indicator > DNS Threat Filter

#### 2.3.4.1 Add or Remove a Threat Domain to the Allow List

There is a blue check mark  $\checkmark$  next to the threat domains that are in the allow list.

Do the following to add a threat domain to the allow list:

1 Go to the Analysis > Security Indicator > DNS Threat Filter screen and scroll down to DNS Threat Filter Hit Detail and click the by Threat Domain tab. click the 🕢 button next to the threat domain.
DNS Threat Filte	r Hit Detail				
by Hostname	by MAC Address	by Threat Domain	by Threat Category	by Source IP	by Query Type
					Ec
Threat Domair	1	Hits	%		
cdn.polyfill.io		7	47 %	Add	to Allow List 📀 >
polyfill.io		5	33 %		
yahoo.com 🥑		3	20 %		
N 🔹 Pag	le 1 of1 ▶	M			10 🔻 per page

2 The following window pops up, click Allow to add the domain to the allow list.

Allow Risk IP Access	
Are you sure you want to al address to the Allow List.	low? The action will add this IP
Note: May take a few minut	tes to apply.
	Cancel Allow

Do the following to remove a threat domain from the allow list:

1 Go to the Analysis > Security Indicator > DNS Threat Filter screen and scroll down to DNS Threat Filter Hit Detail and click the by Threat Domain tab. Click the 😥 button next to the threat domain.

DNS Threat Filter Hit Detail						
by Hostname	by MAC Address	by Threat Domain	by Threat Category	by Source IP	by Query Type	
						Eo
Threat Domain		Hits	%			
cdn.polyfill.io 🕑		7	47 %	Remove fro	m Allow List 😢	>
polyfill.io		5	33 %			
yahoo.com 🥑		3	20 %			
N a Page	e 1 of1 ►	M			10 🔻 per pag	ge

2 The following window pops up, click **Remove** to remove the threat domain from the allow list.



#### 2.3.5 URL Threat Filter

When you enable the URL Threat filtering service, your Zyxel Device downloads signature files that contain known URL Threat domain names and IP addresses. The Zyxel Device will also access an external database that has millions of web sites categorized based on content. You can have the Zyxel Device allow, block, warn and/or log access to web sites or hosts based on these signatures and categories.

The priority for URL Threat checking is as below:

- White List
- Black List
- External Black List
- Local Zyxel Device Signatures
- Cloud Query Cache
- Cloud Query

The following figure shows the Analysis > Security Indicator > URL Threat Filter data visualizations.



Figure 17 Analysis > Security Indicator > URL Threat Filter

The following table describes the labels on the Analysis > Security Indicator > URL Threat Filter screen.

LABEL	DESCRIPTION			
URL Threat Filter Scanned	This chart displays the total number of connections detected by the Zyxel Device.			
(website Amount)	Move your cursor over a trend line to display the number of connections encountered over time.			
URL Threat Filter Trend (Hits)	This chart displays the number of threats posed by websites detected by the Zyxel Devices.			
	Move your cursor over a trend line to display the number of threats encountered over time.			
Top Source Hostname	his chart displays the three most common source hostnames of the incoming malicious or suspicious files.			
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the source hostnames.			
Top Source MAC Address	This chart displays the three most common source MAC addresses of the incoming malicious or suspicious files.			
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the source MAC addresses.			
Top Threat Website	This chart displays the top three threat websites detected by the Zyxel Device.			
	Scroll down to <b>URL Threat Filter Hit Detail</b> and click the <b>by Threat Website</b> tab to display details about the specific websites that were detected.			
Тор Туре	This chart displays the top three most common types of threats posed by websites detected by the Zyxel Devices. Threat categories include <b>Spam URL</b> , <b>Malicious Sites/Botnet</b> , <b>Black List</b> , <b>Anonymizers</b> , <b>Spyware Adware Keylogger</b> , <b>Browser Exploits</b> , and <b>Phishing</b> .			
	Scroll down to <b>URL Threat Filter Hit Detail</b> and click the <b>by Type</b> tab to display details about the threats posed by websites that were detected.			
	Note: See more details of threat categories in ZyWALL User's Guides.			
Top Source IP	This chart displays the source IP addresses of the three most common incoming threat websites.			
	Scroll down to <b>URL Threat Filter Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the incoming threat websites that were detected.			
Top Destination IP	This chart displays the destination IP addresses of the three most common incoming threat websites.			
	Scroll down to <b>URL Threat Filter Hit Detail</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses of the incoming threat websites that were detected.			
URL Threat Filter Hit Detail	This displays the number of threat websites detected by the Zyxel Device, categorized by hostname, MAC address, threat website, threat type, source IP address, or destination IP address.			
	See Section 2.3.5.1 on page 40 for more information on how to add or remove a domain from the allow list.			

 Table 14
 Analysis > Security Indicator > URL Threat Filter

#### 2.3.5.1 Add or Remove a Threat Website to the Allow List

There is a blue check mark  $\checkmark$  next to the domain in the allow list.

Do the following to add a domain to the allow list:

1 Go to the Analysis > Security Indicator > URL Threat Filter screen and scroll down to URL Threat Filter Hit Detail and click the by Threat URL tab. click the 🕢 button next to the threat website.

URL Threat Filter	Hit Detail					
by Hostname	by MAC Address	by Threat Website	by Type	by Source IP	by Destination IP	
						Eo
Threat Website		Hits		%		
polyfill.io		1		100 %		Add to Allow List 📀 >
H 4 Page	e 1 of1 ►	M				10 🔻 per page

2 The following window pops up, click Allow to add the threat website to the allow list.

Allow Threat Website Access			
Are you sure you want to allow? The action will add this website to the Allow List.			
Note: May take a few minutes to apply.			
Cancel Allow			

Do the following to remove a threat website from the allow list:

1 Go to the Analysis > Security Indicator > URL Threat Filter screen and scroll down to URL Threat Filter Hit Detail and click the by Threat Website tab. Click the 😥 button next to the threat website.

URL Threat Filter Hit Detail				
by Hostname by MAC Address	by Threat Website	by Type by Source IP	by Destination IP	
				Eo
Threat Website	Hits	%		
polyfill.io 🥑	1	100 %	Remo	ove from Allow List 😢 >
I ■ ■ Page 1 of1 >	M			10 🔻 per page

2 The following window pops up, click **Remove** to remove the threat website from the allow list.



#### 2.3.6 Antivirus / Malware

Malware is short for malicious software, such as computer viruses, worms and spyware. The Zyxel Device antivirus / malware feature protects your connected network from malware by scanning traffic coming in from the WAN and going out from the WAN. The traffic scanned by the Zyxel Device may include FTP traffic and email with attachments.

The following figure shows the Analysis > Security Indicator > Antivirus / Malware data visualizations.



Figure 18 Analysis > Security Indicator > Antivirus / Malware

The following table describes the labels on the Analysis > Security Indicator > Antivirus / Malware screen.

LABEL	DESCRIPTION
Antivirus / Malware	This chart displays the total number of connections detected by the Zyxel Device.
Scanned (File Amount)	Move your cursor over a trend line to display the number of connections encountered over time.
Antivirus/Malware Trend (Hits)	This chart displays patterns in threats by the number of virus or malware attacks detected by the Zyxel Device.
	Move your cursor over a trend line to display the number of threats encountered over time.
Top Source Hostname	This chart displays the three most common source hostnames of virus or malware attacks detected by the Zyxel Device.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the source hostnames.
Top Source MAC Address	This chart displays the three most common source MAC addresses of virus or malware attacks detected by the Zyxel Device.
	Scroll down to <b>DNS Filter Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the source MAC addresses.
Top Virus / Malware	This chart displays the three most common malware and viruses detected by the Zyxel Device.
	Scroll down to <b>Antivirus / Malware Hit Detail</b> and click the <b>by Virus / Malware</b> tab to display details about the malware and viruses that were detected.
Top Source IP	This chart displays the source IP addresses of the three most common malware and viruses detected by the Zyxel Device.
	Scroll down to <b>Antivirus / Malware Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the incoming malicious and/or suspicious files.
Top Destination IP	This chart displays the destination IP addresses of the three most common malware and viruses detected by the Zyxel Device.
	Scroll down to <b>Antivirus / Malware Hit Detail</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses of the incoming malicious and/or suspicious files.
Antivirus / Malware Hit Detail	This displays the number of antivirus and malware detected by the Zyxel Device, categorized by hostname, MAC address, virus and malware, source IP address, or destination IP address.

 Table 15
 Analysis > Security Indicator > Antivirus / Malware

#### 2.3.7 Sandboxing

This screen displays sandboxing statistics. See Section 2.1.2 on page 18 for more information about sandboxing.

Sandboxing statistics will automatically be removed from the list after one month.

The following figure shows the Analysis > Security Indicator > Sandboxing data visualizations.



Figure 19 Analysis > Security Indicator > Sandboxing

The following table describes the labels on the **Analysis** > **Security Indicator** > **Sandboxing** screen.

LABEL	DESCRIPTION
Sandboxing Scanned (File	This chart displays the total number of connections detected by the Zyxel Device.
Amount)	Move your cursor over a trend line to display the number of connections encountered over time.
Sandboxing Trend (Hits)	This chart displays the number of malicious and/or suspicious files that were scanned.
	Move your cursor over a trend line to display the number of malicious and/or suspicious files encountered over time.
Top File Type	This chart displays the three most common types of malicious and/or suspicious files.
	Scroll down to <b>Sandboxing Hit Detail</b> and click the <b>by File Type</b> tab to display details about the malicious and/or suspicious file types.
Top File Name	This chart displays the file names of the three most common incoming malicious and/or suspicious files.
	Scroll down to <b>Sandboxing Hit Detail</b> and click the <b>by File Name</b> tab to display details about the file names of the incoming malicious and/or suspicious files.
Top File Hash	This chart displays the hash values of the three most common incoming malicious and/or suspicious files.
	Scroll down to <b>Sandboxing Hit Detail</b> and click the <b>by File Hash</b> tab to display details about the hash values of the incoming malicious and/or suspicious files.
Top User	This chart displays the three users who receive malicious and/or suspicious files the most.
	Scroll down to <b>Sandboxing Hit Detail</b> and click the <b>by User</b> tab to display details about the users that are at risk of malicious and/or suspicious files.
Top Source IP	This chart displays the source IP addresses of the three most common incoming malicious and/or suspicious files.
	Scroll down to <b>Sandboxing Hit Detail</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of incoming malicious and/or suspicious files.
Top Destination IP	This chart displays the three destination IP addresses that receive the most incoming malicious and/or suspicious files.
	Scroll down to <b>Sandboxing Hit Detail</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses of incoming malicious and/or suspicious files.
Sandboxing Hit Detail	This displays the number of malicious and/or suspicious files detected by the Zyxel Device, categorized by hostname, MAC address, file type, file name, file hash, user, source IP address, or destination IP address.

Table 16 Analysis > Security Indicator > Sandboxing

### 2.3.8 Mail Protection

Mail protection mark or discard spam (unsolicited commercial or junk email). This screen shows you the information of spam mails detected by Zyxel Device.

The following figure shows the Analysis > Security Indicator > Mail Protection data visualizations.



Figure 20 Analysis > Security Indicator > Mail Protection

The following table describes the labels on the **Analysis** > **Security Indicator** > **Mail Protection** screen.

LABEL	DESCRIPTION
Mail Protection Scanned	This chart displays the total number of mails detected by the Zyxel Device.
(Mail Amount)	Move your cursor over a trend line to display the number of mails sent and received over time.
Mail Protection Trend (Hits)	This chart displays the number of spam mails detected by the Zyxel Device.
	Move your cursor over a trend line to display the number of threats encountered over time.
Top Source Hostname	This chart displays the three most common spam email sender hostnames detected by the Zyxel Device.
	Scroll down to <b>Email Spam Hit Detail</b> and click the <b>by Hostname</b> tab to display details about the spam email sender hostnames that were detected.
Top Source MAC Address	This chart displays the three most common spam email sender MAC addresses detected by the Zyxel Device.
	Scroll down to <b>Email Spam Hit Detail</b> and click the <b>by MAC Address</b> tab to display details about the spam email sender MAC addresses that were detected.
Top Spam Email Subject	This chart displays the three most common spam email subjects detected by the Zyxel Device.
	Scroll down to <b>Email Spam Hit Detail</b> and click the <b>by Email Subject</b> tab to display details about the spam email subjects that were detected.
Top Spam Sender Email	This chart displays the three most common spam email senders detected by the Zyxel Device.
	Scroll down to <b>Email Spam Hit Detail</b> and click the <b>by Sender Email</b> tab to display details about the spam email senders that were detected.
Top Spam Received IP	This chart displays the three most common traffic classified as spam received by the internal users of the Zyxel Device.
	Scroll down to <b>Email Spam Hit Detail</b> and click the <b>by Received IP</b> tab to display details about the spam email recipients that were detected.
Top Spam Sender IP	This chart displays the three most common traffic classified as spam sent from the internal users of the Zyxel Device.
	Scroll down to <b>Email Spam Hit Detail</b> and click the <b>by Sender IP</b> tab to display details about the spam traffic source that were detected.
Mail Protection Hit Detail	This displays the information of spam mails detected by the Zyxel Device, categorized by hostname, MAC address, email subject, sender email, sender IP address, or received IP address.

Table 17 Analysis > Security Indicator > Mail Protection

# 2.4 Network Activity

Network Activity data visualizations are categorized as:

- DNS Content Filter
- App Patrol
- Web Content Filter

#### 2.4.1 DNS Content Filter

DNS (Domain Name System) content filter blocks or allow access to websites based on domain names. The following figure shows the Analysis > Network Activity > DNS Content Filter data visualizations.



Figure 21 Analysis > Network Activity > DNS Content Filter

The following table describes the labels on the **Analysis** > **Network Activity** > **DNS Content Filter** screen.

LABEL	DESCRIPTION			
DNS Content Filter Scanned	This chart displays the total number of connections detected by the Zyxel Device.			
	Move your cursor over a trend line to display the number of connections encountered over time.			
Blocked Domain Access	This chart displays the number of accesses to blocked domains that were scanned.			
	Move your cursor over a trend line to display the number of accesses to blocked domains encountered over time.			
Allowed Domain Access	This chart displays the number of accesses to allowed domains that were scanned.			
	Move your cursor over a trend line to display the number of accesses to allowed domains encountered over time.			
Top Accessed Blocked	This chart displays the three most commonly accessed blocked domains.			
Domain	Scroll down to <b>Blocked Domain Access History</b> and click the <b>by Domain</b> tab to display details about the accesses to blocked domains that were scanned.			
Top Accessed Blocked Category	This chart displays the three most common categories of blocked domains accessed.			
	Scroll down to <b>Blocked Domain Access History</b> and click the <b>by Category</b> tab to display details about the accesses to blocked domains that were scanned.			
Top Accessed Allowed	This chart displays the three most commonly accessed allowed domains.			
Domain	Scroll down to <b>Allowed Domain Access History</b> and click the <b>by Domain</b> tab to display details about the accesses to allowed domains that were scanned.			
Top Accessed Allowed Category	This chart displays the three most common categories of allowed domains accessed.			
	Scroll down to <b>Allowed Domain Access History</b> and click the <b>by Category</b> tab to display details about the accesses to allowed domains that were scanned.			
Top Source IP (To Blocked Domain)	This chart displays the source IP addresses of the three most commonly accessed blocked domains.			
	Scroll down to <b>Blocked Domain Access History</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the blocked domains.			
Top Accessed Blocked Query Type	This chart displays the three most common DNS record types for accessed domains that were blocked.			
	Scroll down to <b>Blocked Domain Access History</b> and click the <b>by Query Type</b> tab to display details about the DNS record types of the blocked domains.			
Top Source IP (To Allowed Domain)	This chart displays the source IP addresses of the three most commonly accessed allowed domains.			
	Scroll down to <b>Allowed Domain Access History</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the allowed domains.			
Top Accessed Allowed Query Type	This chart displays the three most common DNS record types for accessed domains that were allowed.			
	Scroll down to Allowed Domain Access History and click the by Query Type tab to			

 Table 18 Analysis > Network Activity > DNS Content Filter

**Blocked Domain Access** 

Allowed Domain Access

History

History

display details about the DNS record types of the allowed domains.

domain name, category, source IP address, and DNS record types.

domain name, category, source IP address, and DNS record types.

This displays the domains that are blocked by the Zyxel Device, categorized by

This displays the domains that are allowed by the Zyxel Device, categorized by

<sup>50</sup> 

#### 2.4.2 App Patrol

Application Patrol provides a convenient way to manage the use of various applications on the network. It manages general protocols (for example, HTTP and FTP) and instant messenger (IM), peer-to-peer (P2P), Voice over IP (VoIP), and streaming (RSTP) applications. You can even control the use of a particular application's individual features (like text messaging, voice, video conferencing, and file transfers).

Application Patrol examines every TCP and UDP connection passing through the Zyxel Device and identifies what application is using the connection. Then, you can specify whether or not the Zyxel Device continues to route the connection. Traffic not recognized by the application patrol signatures is ignored.

The following figure shows the Analysis > Network Acitivity > App Patrol data visualizations.

Network Activity				
DNS Content Filter App Patrol	Web Conten	t Filter		
				Last 7 days 🗸 🗸
Blocked Application Access Trend (Hits	5)		Allowed Application Access Trend (Hits)	
20 15 10 5 8/7 8/8 8/9 8/10 10:00 10:00 10:00	8/11 10:00	8/12 8/13 8/14 10:00 10:00 10:00	18 12 6 0 8/7 10:00 10:0	44444 8/11 8/12 8/13 8/14 10:00 10:00 10:00
Top Accessed Blocked Application	Top Acce	essed Blocked Applicati	Top Accessed Allowed Application	Top Accessed Allowed Applicati
<ul> <li>Facebook 29 Hits (5%)</li> <li>Odnoklassniki.ru 29 Hits (5%)</li> <li>AnyDesk 25 Hits (4%)</li> <li>Others 540 Hits (87%)</li> </ul>	<ul><li>Web</li><li>Instar</li><li>Game</li><li>Other</li></ul>	158 Hits (25%) nt Messa 130 Hits (21%) e 86 Hits (14%) rs 249 Hits (40%)	Adobe         38 Hits (5%)           Pinterest         36 Hits (5%)           TeamViewer         29 Hits (4%)           Others         611 Hits (86%)	Web         350 Hits (49%)           Network Service         71 Hits (10%)           Tunneling         50 Hits (7%)           Others         243 Hits (34%)
Blocked Application Access History			Allowed Application Access History	
by Application by Application Type			by Application by Application Type	
Application	Hits	%	Application	Hits %
Facebook	29	5%	Adobe	38 5 %
Odnoklassniki.ru	29	5 %	Pinterest	36 5 %
AnyDesk	25	4 %	TeamViewer	29 4 %
Google Messages	25	4 %	Server Message Block (Windows File Server	27 4%
AppNexus	23	4 %	Internet Control Message Protocol	26 4 %
Line	23	4 %	WhatsApp Messenger	26 4 %
Skype	22	4 %	Internet Message Access Protocol Secure	26 4 %
Windows Update	22	4 %	BitDefender Update	25 4 %
Youtube.com	22	4 %	Domain Name Service	25 4 %
Netflix.com	22	4 %	Xunlei/Thunder protocol	25 4 %
I		10 🔻 per page	H A Page 1 of 4 F	10 🔻 per page

Figure 22 Analysis > Network Acitivity > App Patrol

The following table describes the labels on the **Analysis** > **Network Acitivity** > **App Patrol** screen.

LABEL	DESCRIPTION
Blocked Application Access Trend (Hits)	This chart displays the most commonly used applications accessed through the Zyxel Device as detected and blocked by Application Patrol.
	Move your cursor over a trend line to display the number of threats encountered over time.
Allowed Application Access Trend (Hits)	This chart displays the number of most frequently visited applications through the Zyxel Device as detected by Application Patrol. Application Patrol manages general protocols (for example, HTTP and FTP, instant messenger (IM), peer-to-peer (P2P), Voice over IP (VoIP), streaming (RSTP) applications and even an application's individual features (like text messaging, voice, video conferencing, and file transfers).
	Move your cursor over a trend line to display the number of threats encountered over time.
Top Accessed Blocked Application	This chart displays the three applications that were blocked the most frequently by the Zyxel Device.
	Scroll down to <b>Blocked Application Access History</b> and click the <b>Application Name</b> tab to display details about the specific applications that were blocked.
Top Accessed Blocked Application Type	This chart displays the three types of application that were blocked the most frequently by the Zyxel Device.
	Scroll down to <b>Blocked Application Access History</b> and click the <b>Application Type</b> tab to display details about the specific application types that were blocked.
Top Access Allowed Application	This chart displays the three applications that were accessed the most frequently by the Zyxel Device.
	Scroll down to <b>Allowed Application Access History</b> and click the <b>Application Name</b> tab to display details about the specific applications that were accessed.
Top Access Allowed Application Type	This chart displays the three applications that were accessed the most frequently by the Zyxel Device.
	Scroll down to <b>Allowed Application Access History</b> and click the <b>Application Type</b> tab to display details about the specific application types that were accessed.
Blocked Application Access History	This displays the applications that are blocked by the Zyxel Device, categorized by application and application type.
Allowed Application Access History	This displays the applications that are allowed by the Zyxel Device, categorized by application and application type.

 Table 19
 Analysis > Network Acitivity > App Patrol

### 2.4.3 Web Content Filter

Web content filter restrict access to specific websites based on the policy you set on the Zyxel Device. The following figure shows the **Analysis** > **Network Acitivity** > **Web Content Filter** data visualizations.





The following table describes the labels on the Analysis > Network Acitivity > Web Content Filter screen.

<b>-</b>					o
Table 20	Analysis >	Network	Acitivity >	Web	Content Filter
10010 20	7 (i) (a) y 515 /	110101011	/ Controlly /		00111011111101

LABEL	DESCRIPTION					
Website Scanned	This chart displays the total number of websites detected by the Zyxel Device.					
(Website Amount)	Move your cursor over a trend line to display the number of websites encountered over time.					
Blocked Website	This chart displays the number of accesses to blocked websites that were scanned.					
Access Irend (Hits)	Move your cursor over a trend line to display the number of accesses to blocked websites encountered over time.					
Allowed Website	This chart displays the number of accesses to allowed websites that were scanned.					
Access liend (Hits)	Move your cursor over a trend line to display the number of accesses to allowed websites encountered over time.					
Top Accessed Blocked	This chart displays the three most commonly accessed blocked websites.					
website	Scroll down to <b>Blocked Website Access History</b> and click the <b>by Website</b> tab to display details about the accesses to blocked websites that were scanned.					
Top Accessed Blocked	This chart displays the three most common types of blocked websites accessed.					
website type	Scroll down to <b>Blocked Website Access History</b> and click the <b>by Website Type</b> tab to display details about the types of blocked websites that were scanned.					
Top Accessed Allowed	This chart displays the three most commonly accessed allowed websites.					
website	Scroll down to <b>Allowed Website Access History</b> and click the <b>by Website</b> tab to display details about the accesses to blocked websites that were scanned.					
Top Accessed Allowed	This chart displays the three most common types of allowed websites accessed.					
website type	Scroll down to <b>Allowed Website Access History</b> and click the <b>by Website Type</b> tab to display details about the types of allowed websites that were scanned.					
Top Source IP (To Blocked Website)	This chart displays the source IP addresses of the three most commonly accessed blocked websites.					
	Scroll down to <b>Allowed Website Access History</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the blocked websites.					
Top Destination IP (To Blocked Website)	This chart displays the destination IP addresses of the three most commonly accessed blocked websites.					
	Scroll down to <b>Blocked Website Access History</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses of the blocked websites.					
Top Source IP (To Allowed Website)	This chart displays the source IP addresses of the three most commonly accessed allowe websites.					
	Scroll down to <b>Allowed Website Access History</b> and click the <b>by Source IP</b> tab to display details about the source IP addresses of the allowed websites.					
Top Destination IP (To Allowed Website)	This chart displays the destination IP addresses of the three most commonly accessed allowed websites.					
	Scroll down to <b>Allowed Website Access History</b> and click the <b>by Destination IP</b> tab to display details about the destination IP addresses of the allowed websites.					
Blocked Website Access History	This displays the blocked websites accessed the most frequently as detected by the Zyxel Device, categorized by website, website type, source IP address, and destination IP address.					
Allowed Website Access History	This displays the allowed websites accessed the most frequently as detected by the Zyxel Device, categorized by website, website type, source IP address, and destination IP address.					

## 2.5 Traffic

Use this screen to view the details about the bandwidth usage on the network. The following figure shows the **Analysis** > **Traffic** data visualizations.

Note: At the time of writing, the ZyWALL ATP series, ZyWALL USG FLEX series, ZyWALL USG FLEX 50(AX) series, and ZyWALL VPN series devices in cloud mode do not support the **Traffic** screen. Please go to the Nebula portal to view the traffic log.

Figure 24 Analysis > Network Acitivity > Traffic

						Last 24 hours ~
Top Source Hostname		Top Source MAC Address		Top Bandwidth User	r	
PC-SERVICES	218.6 MB (31%)	7b:ba:c7:a9:fc:6e	218.7 MB (31%)	Steven		219.3 MB (32%)
Tom	218.6 MB (31%)	e3:72:95:97:1d:b1	218.6 MB (31%)	Kari		219.3 MB (32%)
Mi9T-Mi9T	218.6 MB (31%)	5e:7b:85:5d:5c:d5	218.6 MB (31%)	Stacy		218.7 MB (31%)
Others	38.8 MB (6%)	Others	38.8 MB (6%)	Others		37.3 MB (5%)
Top Application Usage		Top Destination Country		Top Destination Por	t	
	655.8 MB (95%)	<ul> <li>United States</li> </ul>	663.1 MB (95%)	<b>4</b> 43		691.2 MB (100%)
Web	34.8 MB (5%)	Thailand	28.7 MB (4%)	80		864.3 KB (0%)
Instant Messaging	645.3 KB (0%)	Germany	407.2 KB (0%)	19305		571.2 KB (0%)
Mail	117.5 KB (0%)	Others	2.4 MB (0%)	Others		2.0 MB (0%)
by Hostname by MAC Address	by User by Application	by Destination Country	by Destination Port			
Source Hostname		Upload	Download	Total	%	
PC-SERVICES		16.8 MB	201.8 MB	218.6 MB	31 %	
Tom		16.8 MB	201.8 MB	218.6 MB	31 %	
Mi9T-Mi9T		16.8 MB	201.8 MB	218.6 MB	31 %	
DELTAPC002		307.5 KB	28.4 MB	28.7 MB	4 %	
TEST-PC		49.0 KB	1.6 MB	1.6 MB	0 %	
ZTE-Blade-A7-2020RU		49.3 KB	1.6 MB	1.6 MB	0 %	
Karin-iMac-2		135.0 KB	325.0 KB	460.0 KB	0 %	
Honor_8A-8ba3243c5ae1e260		133.7 KB	276.8 KB	410.5 KB	0 %	
iPhoneJulie		125.5 KB	256.0 KB	381.6 KB	0 %	
RedmiNote7-RAZER		125.5 KB	256.0 KB	381.6 KB	0 %	
I ■ ■ Page 1 of 15 ►	M					10 v per page

The following table describes the labels on the **Analysis** > **Network Acitivity** > **Traffic** screen.

LABEL	DESCRIPTION
Top Source Hostname	This chart displays the three hostnames with the greatest bandwidth usage on the network.
	Scroll down to <b>Traffic Detail</b> and click the <b>by Hostname</b> tab to display details about the hostnames that send the most traffic.
Top Source MAC Address	This chart displays the three MAC addresses with the greatest bandwidth usage on the network.
	Scroll down to <b>Traffic Detail</b> and click the <b>by MAC Address</b> tab to display details about the MAC addresses that send the most traffic.
Top Bandwidth User	This displays the top three users of bandwidth on the network.
	Scroll down to <b>Traffic Detail</b> and click the <b>by User</b> tab to display details about the users that use the most bandwidth on the network.
Top Application Usage	This displays the network applications with the greatest bandwidth usage on the network.
	Scroll down to <b>Traffic Detail</b> and click the <b>by Application</b> tab to display details about the applications that use the most bandwidth on the network.
Top Destination Country	This displays the top three countries that received the most data traffic from the Zyxel Device.
	Scroll down to <b>Traffic Detail</b> and click the <b>by Destination Country</b> tab to display details about the countries that received the most bandwidth on the network.
Top Destination Port	This displays the top three destination ports by bandwidth usage over a This displays the network applications with the greatest bandwidth usage.
	Scroll down to <b>Traffic Detail</b> and click the <b>by Destination Port</b> tab to display details about the ports that received the most bandwidth on the network.
Traffic Detail	This displays the information of the traffic passing through the Zyxel Device, categorized by hostname, MAC address, user, application, destination country, and destination port.

# 2.6 Device

Device data visualizations are categorized as:

- CPU/Memory/Session
- Interface Traffic

#### 2.6.1 CPU/Memory/Session

The following figure shows the Analysis > Device > CPU / Memory / Session data visualizations.



Figure 25 Analysis > Device > CPU / Memory / Session

The following table describes the labels on the Analysis > Device > CPU / Memory / Session screen.

LABEL	DESCRIPTION
CPU Usage Trend	This field displays the current CPU utilization percentage used on the Zyxel Device.
Memory Usage Trend	This field displays the percentage of current DRAM memory utilization used on the Zyxel Device.
Session Usage Trend	This field displays the number of concurrent NAT/security policies traffic sessions the Zyxel Device is using.
Device Information	
Device Name	This field displays the device name of the Zyxel Device.
Model Name	This field displays the model name of the Zyxel Device.
MAC Address	This field displays the MAC address of the Zyxel Device.
Serial Number	This field displays the serial number of the Zyxel Device.
Firmware Version	This field displays the firmware version of the Zyxel Device.
WAN IP Address	This field displays the IP address of the Zyxel Device on the network.
License Information	
License Name	This field displays the name of the license that is linked to the Zyxel Device.
License Status	This field displays the remaining valid days of the service's license.

Table 22 A	nalysis >	Device > CPU /	Memory /	Session
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## 2.6.2 Interface Traffic

The following figure shows the  ${\bf Analysis}$  >  ${\bf Device}$  >  ${\bf Interface Traffic}$  data visualizations.





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The following table describes the labels on the **Analysis** > **Device** > **Interface Traffic** screen.

LABEL	DESCRIPTION
DMZ Traffic Usage Trend	This chart displays the amount of data that is transmitted on the DMZ interface over time.
LAN1 Traffic Usage Trend	This chart displays the amount of data that is transmitted on the LAN1 interface over time.
LAN2 Traffic Usage Trend	This chart displays the amount of data that is transmitted on the LAN2 interface over time.
OPT Traffic Usage Trend	This chart displays the amount of data that is transmitted on the OPT interface over time.
RESERVED Traffic Usage Trend	This chart displays the amount of data that is transmitted on the RESERVED interface over time.
WAN1 Traffic Usage Trend	This chart displays the amount of data that is transmitted on the WAN1 interface over time.
WAN2 Traffic Usage Trend	This chart displays the amount of data that is transmitted on the WAN2 interface over time.

 Table 23
 Analysis > Device > Interface Traffic

# Chapter 3 Logs

## 3.1 Overview

SecuReporter saves logs of your Zyxel Device every 10 minutes.

To have SecuReporter save sandboxing logs, some criteria needs to be met:

- See Section 1.1.2 on page 7 for more information on the Zyxel Devices that support sandboxing.
- Make sure sandboxing is selected in the Categories field of the Configuration > Cloud CNM > SecuReporter screen.

Otherwise, sandboxing logs are dropped. See the User's Guide of the supported Zyxel Device for instructions.

Note: Sandboxing logs will be removed after you reboot the Zyxel Device.

The Zyxel Device and SecuReporter may be in different time zones. It may take up to one day to archive logs depending on the amount of logs requested and how old the logs are. A Zyxel Device's log file is kept in archive by SecuReporter up to 1 year.

## 3.2 Search Log

Search log allows you to display Zyxel Device logs based on a time frame and also export them in CSV format for further analysis. You can select **Security Indicator**, **Network Activity**, **Traffic** and **Event** logs to view. The field on the right of allow you to select a specific time frame to view. The default is the last 7 days. You can change the time frame depending on your license type, see Table 25 on page 66 for details.

Figure 27	Search	Loa
	Jearen	LOG

Search	Log														ŧ
Secu	rity Indicator Nets	work Activity Tr	raffia Even	t											
ADP	IP Reputation IPS	DNS Threat Filter	URL Threat Filt	ar Antivirus/Mo	Jware Sandboxing	Moll Protection									
													<b>T</b> 7 L	nt 7 days	•
	Time	Source IP	Source Port	Destination IP	Destination Port	Action	Signature Name	Signature D	Threat Type	User	Source Hostnome	Source MAC Address	Device Category	Device OS	
1	2024-08-14 13:17:53	151101122.174	0	192.168.93.211	59973	Drop Packet	icmp-fragment	23	ICMP-Decoder	Timothy	PG_Office_20	997260568920	Computer	Windows	î
2	2024-08-14 13:16:05	10.0.4.72	58333	192.168.166.69	50771	Drop Packet	udp filtered distributed portscon	49	Scan-Detection	Eddie	StoreDelivery-PC	167a2c9e149d	Computer	Windows	
3	2024-08-14 13:11:32	151101122174	0	192.168.190.118	62924	Drop Packet	icmp-fragment	23	ICMP-Decoder	Jonathan	iMac-de-Jonathan	bd7d2c8d65.0f	Computer	Others	
4	2024-08-14 13:04:37	68.0.153.41	443	192.168.103.242	58408	Drop Packet	obsolete-options	70	TCP-Decoder	Andrew	OPPO-AS	90:f2:0c:ef:2f:e1	Mobile Phone/Tablet	Andriod	
5	2024-08-14 13:01:35	213.134.66.109	36299	192.168.93.172	56781	Drop Packet	bod-udp-M-size	4043309072	UDP-Decoder	Stocy	SRVSERVICE	7c:36/20.0bra7:d0	Computer	Windows	
6	2024-08-14 13:00:57	10.11.17.237	46792	192.168.221.149	53795	Drop Packet	UDP-Portscan	4026531849	Scan-Detection	Kathryn	Kathryn05	eb:c2:de:e4:0175	Computer	Windows	
7	2024-08-14 12:59:00	10.0.2.7	0	192.168.142.22	54991	Drop Packet	icmp-fragment	4043309089	ICMP-Decoder	Steven	Steven20	ca:16:x9:11:57:b8	Computer	Windows	
8	2024-08-14 12:58:56	213134.66109	36299	192.168.142.22	50913	Drop Packet	bad-udp-H-size	4043309072	UDP-Decoder	Steven	Steven20	ca:%x9:7157.b8	Computer	Windows	•

You can set the search log criteria by clicking 🝸 , see Table 25 on page 66 for details.

A maximum of 10,000 search results are allowed at a time. The following screen appears if the search result exceeds 10,000. Add filters to narrow down the search log criteria.

#### Figure 28 Number of Logs Exceeds the Limit

Alert	
Number of logs in query exceeded the maximum limit; please set more filters a query again	nd
	ок

#### 3.2.1 Log Search Privileges

This table summarizes the SecuReporter log search privileges:

ТҮРЕ	SECUREPORTER
Security Logs Date Range	Past 30 days
Traffic Logs Date Range	Past 7 days
Custom Range	Yes
Filters	Yes
Frequency	No limitation
CSV file download	Yes

Table 24 SecuReporter Log Search Privileges

#### 3.2.2 Download Logs

You can download the Zyxel Device's logs by doing the following steps.

- 1 Go to the Log screen. Click the Download History Data icon 🖡 at the upper-right corner.
- 2 Select the log files you want and click **Request to Download**, or click **Request to Download All** to download all log files from up to 1 year at once.

~					<b>B</b>
Download	l History Da	ta			
Download 2	Zyxel Devices	' log activities (security, netv	work traffic, applications,	events, and more).	
					Last 1 year
		File Name	File Size	MD5	
1		2024-09-02.gzip	1.2 MB	8acc342383d61142b4f95a1dd110c825	
2	$\Box$	2024-08-25.gzip	62.6 KB	8d3264d87b28e658d1d5a1c723cadab3	
з		2024-08-24.gzip	62.8 KB	2908db4b082b8dda00df7c31fca250b9	
4		2024-08-23.gzip	41.7 KB	aaede3026cf7d8e63d81657b121ab73a	
5		2024-08-22.gzip	19.8 KB	10d10610852b74a61a1cb2eae03b1c26	
6		2024-08-21.gzip	20.0 KB	ebccd72634506bf2bb79b8e386a2b065	
7		2024-08-20.gzip	25.3 KB	b255250008629116150c63b17f1cb546	
8		2024-08-19.gzip	43.9 KB	ac2069a1c3d18ec708acc81a24a6d787	
9		2024-08-18.gzip	19.7 KB	556a1a5d178eab6ef4fb7db9a100042c	
10		2024-08-17.gzip	20.3 KB	66d16e3cfd3b6b9ff41bc184f6dca6b8	
H 4	Page 1	of 13 🕨 🕨			10 🔻 per page

3 The following window pops up. Click **Done** to proceed.



4 Click the History Data icon at the upper-right corner.

$\leftarrow$					∎
Downlo	oad History Da	ta			
Downlo	ad Zyxel Devices'	' log activities (security, net	work traffic, applications,	events, and more).	
					Last1year ~
					Request to Download All
		File Name	File Size	MD5	
1		2024-09-02.gzip	1.2 MB	8acc342383d61142b4f95a1dd110c825	
2		2024-08-25.gzip	62.6 KB	8d3264d87b28e658d1d5a1c723cadab	93
з		2024-08-24.gzip	62.8 KB	2908db4b082b8dda00df7c31fca250l	9
4		2024-08-23.gzip	41.7 KB	aaede3026cf7d8e63d81657b121ab73c	1
5		2024-08-22.gzip	19.8 KB	10d10610852b74a61a1cb2eae03b1c26	
6		2024-08-21.gzip	20.0 KB	ebccd72634506bf2bb79b8e386a2b0	65
7		2024-08-20.gzip	25.3 KB	b255250008629116150c63b17f1cb546	
8		2024-08-19.gzip	43.9 KB	ac2069a1c3d18ec708acc81a24a6d78	7
9		2024-08-18.gzip	19.7 KB	556a1a5d178eab6ef4fb7db9a100042a	2
10		2024-08-17.gzip	20.3 KB	66d16e3cfd3b6b9ff41bc184f6dca6b8	
н	∢ Page 1	of 13 🕨 🕨			10 🔻 per page

5 The log files ready for download will be displayed on this screen. Select the log files you want and click Download to download them in ZIP format, or click Download All to download all logs from up to 1 year in ZIP format to your computer.

←						
History Do	History Data Ready to be Downloaded					
The files ca	n be downloaded to your computer.					
			Download All (40)	Personal Data		
	File Name	File Size	File Status			
	2024-09-02.gzip	1.2 MB	Expired at 2024-09-10 10:40+08:00			
	2024-09-01.gzip	313.5 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-31.gzip	321.2 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-30.gzip	191.5 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-29.gzip	278.1 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-28.gzip	126.5 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-27.gzip	29.2 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-26.gzip	45.6 KB	Expired at 2024-09-09 10:38+08:00			
	2024-08-25.gzip	62.6 KB	Expired at 2024-09-10 10:40+08:00			
	2024-08-24.gzip	62.8 KB	Expired at 2024-09-10 10:40+08:00			
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6 If you select **Fully Anonymous** as the **Protection Policy**, the hostname in the log files will be encrypted. You will need to download **Personal Data** to refer to the hostname.

$\leftarrow$							
History [	History Data Ready to be Downloaded						
The files o	The files can be downloaded to your computer.						
			Download All (40)     Personal Data				
	File Name	File Size	File Status				
	2024-09-02.gzip	1.2 MB	Expired at 2024-09-10 10:40+08:00				
	2024-09-01.gzip	313.5 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-31.gzip	321.2 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-30.gzip	191.5 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-29.gzip	278.1 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-28.gzip	126.5 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-27.gzip	29.2 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-26.gzip	45.6 KB	Expired at 2024-09-09 10:38+08:00				
	2024-08-25.gzip	62.6 KB	Expired at 2024-09-10 10:40+08:00				
	2024-08-24.gzip	62.8 KB	Expired at 2024-09-10 10:40+08:00				
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### 3.2.3 Security Indicator Logs

Security Indicator logs are categorized as follows:

- ADP
- IP Reputation
- IPS
- DNS Threat Filter
- URL Threat Filter
- Antivirus / Malware
- Sandboxing
- Mail Protection

The following figure shows the Search > Log > Security Indicator screen.



Secu	rity Indicator	Net	work Activity 1	Traffic Ev	ent				
ADP	IP Reputation	IPS	DNS Threat Filter	URL Threat	Filter Antivirus /	Malware Sandbo	oxing Mail Prote	ection	
								T A Last 7 days	
	Time		Source IP	Source Port	Destination IP	Destination Port	Action	Signature Name	
1	2024-08-23 13:3	8:54	213.134.66.109	36299	192.168.10.95	64877	Drop Packet	bad-udp-14-size	
2	2024-08-23 13:3	6:33	88.213.242.175	4500	192.168.221.149	52395	Drop Packet	udp-flood	
3	2024-08-23 13:2	4:22	10.40.0.1	0	192.168.49.67	50581	Drop Packet	ip filtered protocol sweep	
4	2024-08-23 13:0	8:06	157.185.156.157	0	192.168.168.255	63433	Drop Packet	ICMP-Flood	
5	2024-08-23 13:0	5:40	192.168.0.2	0	192.168.22.210	52922	Drop Packet	udp decoy portscan	
6	2024-08-23 12:4	6:47	185.64.189.112	443	192.168.19.93	59008	Drop Packet	tcp-fragment	
7	2024-08-23 12:4	0:46	79.124.62.234	57525	192.168.254.156	50445	Drop Packet	tcp filtered portscan	
									•

Figure 29 Search > Log > Security Indicator

The following table describes the labels on the **Search** > **Log** > **Security Indicator** screen.

Table 25 Search > Log > Security Indicator Screen

LABEL	DESCRIPTION
T	Click Clear All to discard the filtering rules.
•	Click Add Rule to create and manage the detailed filtering rules for each label.
	Click <b>Search</b> to apply the filtering rule to the search log.
	ClickPlease Select to set the filtering rule for each label.
	Click 😢 to discard a filtering rule.
	The A will appear for the following reasons. Hover the mouse cursor on it to know the type of error.
	• Please select a field. This occurs when you click the Search button without selecting a field.
	• Please enter a value before clicking 'Search'. This occurs when you click the Search button without entering or selecting a value in the contains field.
	• <b>Press 'Enter' to apply.</b> This occurs when you click the <b>Search</b> button without pressing the <b>Enter</b> key for the <b>contains</b> field that can accept multiple values.
	• The value cannot be found. This occurs when you enter a none existent value in the contains field.
	• <b>No log available.</b> This occurs when no log is available for the filter value you enter or select.
	• The value cannot be found. This occurs when entering the wrong character format in the contains field (for example, entering alphabetic characters for the Source IP field).
R	Click The have SecuReporter save the result of your search log to your computer in a CSV file. Maximum of 10,000 search results. Fields that do not have a value in the search log result will appear as blanks in the CSV file.
	Depending on your license type, select the time frame by clicking a 'from' and 'to' dates. You can also specify the 'from' and 'to' hh:mm time range (24-hour format).
	Then click <b>Apply</b> to display those logs.

LABEL	DESCRIPTION
Time	Select the year-month-date hour:minute:second of the log.
	When adding this as a filter rule, click the drop-down field on the right of the screen to select the time frame.
Source IP	Enter the IPv4 or IPv6 address of the original sender of the packet.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 192.168.221.* (it will search for logs with any IP within 192.168.221.0 - 192.168.221.255).
Source Port	Enter the port number of the original sender of the packet.
	When adding this as a filter rule, enter the port number and press <b>Enter</b> . More than one port number can be entered after the first filter rule by entering another port number and pressing <b>Enter</b> . Multiple port number filters are entered one at a time.
Destination IP	Enter the IPv4 or IPv6 address of the final destination of the packet.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 210.61.209.* (it will search for logs with any IP within 210.61.209.0 - 210.61.209.255).
Destination Port	Enter the port number of the final destination of the packet.
	When adding this as a filter rule, enter the port number and press <b>Enter</b> . More than one port number can be entered after the first filter rule by entering another port number and pressing <b>Enter</b> . Multiple port number filters are entered one at a time.
Action (IPS/ADP)	Enter the response the Zyxel Device takes when a packet matches a signature. A signature is a pattern of malicious or suspicious packet activity. This is defined in the profile screen of your Zyxel Device's Web Configurator. The Zyxel Device checks all signatures and continues searching even after a match is found. If two or more rules have conflicting actions for the same packet, then the Zyxel Device applies the more restrictive action ( <b>Reject Both, Reject Receiver</b> or <b>Reject Sender</b> , <b>Drop Packet</b> , <b>No Action</b> in this order). If a packet matches a rule for <b>Reject Receiver</b> and it also matches a rule for <b>Reject Sender</b> , then the Zyxel Device will <b>Reject Both</b> .
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.
Action (IP Reputation)	IP Reputation checks the reputation of an IP address from a database. An IP address with bad reputation associates with suspicious activities, such as spam, virus, and/or phishing. Enter how the Zyxel Device will respond when there are packets coming from an IPv4 address with bad reputation (ACCESS BLOCK and ACCESS FORWARD).
	When adding this as a filter rule, enter the action or part of the action you want to find to enable SecuReporter auto suggestion. Both ACCESS BLOCK and ACCESS FORWARD can be entered as a filter rule by entering ACCESS BLOCK and pressing Enter, and then entering ACCESS FORWARD and pressing Enter.
Action (DNS Filter)	Enter how the Zyxel Device handle threats posed by FQDNs (Block, Redirect).
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.
Action (URL Threat Filter)	Enter how the Zyxel Device handle threats posed by URLs (Uniform Resource Locators) (ACCESS BLOCK, ACCESS WARNING, ACCESS PASS).
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.

 Table 25
 Search > Log > Security Indicator Screen (continued)

LABEL	DESCRIPTION
Action (Antivirus / Malware)	Enter <b>ACCESS FORWARD</b> when a service can be used to access the Zyxel Device. Otherwise, it is <b>ACCESS BLOCK</b> .
	Enter FILE FORWARD when a file is allowed. Otherwise, it is FILE DESTROY.
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.
Action (Sandboxing)	The Zyxel Device sandbox checks all received files against its local cache for known malicious or suspicious codes. Enter how the Zyxel Device handle sandboxing ( <b>Pass</b> , <b>Detected</b> , <b>Destroy</b> ).
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.
Action (Mail	Enter how the Zyxel Device handle spam SMTP/POP3 email (MAIL FORWARD, MAIL DROP).
Protection)	When adding this as a filter rule, enter the action or part of the action you want to find to enable SecuReporter auto suggestion. Both MAIL FORWARD and MAIL DROP can be entered as a filter rule by entering MAIL FORWARD and pressing Enter, and then entering MAIL DROP and pressing Enter.
User	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:
	<ul> <li>For Partially Anonymous users, the user name is displayed but log search is disabled.</li> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, USER-698a9b31-cea4-523c-8955-ffad47db967e.</li> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case sensitive) for log search.</li> </ul>
Signature Name	Enter the name (case sensitive, a wildcard is allowed) of a signature.
	When adding this as a filter rule, enter the name or part of the name of the signature you want to find to enable SecuReporter auto suggestion.
Signature ID	Enter the identification number of the signature.
	When adding this as a filter rule, enter the ID or part of the ID of the signature you want to find to enable SecuReporter auto suggestion.
Threat Type	Enter the signature (case sensitive) by threat type.
	When adding this as a filter rule, enter the threat type or part of the threat type you want to find to enable SecuReporter auto suggestion. More than one threat type can be entered after the first filter rule by entering another threat type and pressing <b>Enter</b> . Multiple threat type filters are entered one at a time.
Mail From	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:
	<ul> <li>For Partially Anonymous users, the sender is displayed but log search is disabled.</li> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, MAIL-108cef2d-b591-5460-af79-71994d126cc7.</li> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case</li> </ul>
Mail To	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the
	following will be displayed:
	<ul> <li>For Partially Anonymous users, the recipient is displayed but log search is disabled.</li> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, MAIL-108cef2d-b591-5460-af79-71994d126cc7.</li> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case)</li> </ul>
	sensitive) for log search.
Mail Subject	This is the title header of the incoming email.

Table 25 Search > Log > Security Indicator Screen (continued)

LABEL	DESCRIPTION
Protocol (Sandboxing)	Enter the method email is sent or received through the Zyxel Device (SMTP, POP3, HTTP, FTP, and Unknown).
	When adding this as a filter rule, enter the protocol or part of the protocol you want to find to enable SecuReporter auto suggestion. More than one protocol can be entered after the first filter rule by entering another protocol and pressing <b>Enter</b> . Multiple protocol filters are entered one at a time.
Protocol (Mail	Enter the method email is sent or received through the Zyxel Device (SMTP and POP3).
Protection)	When adding this as a filter rule, enter the protocol or part of the protocol you want to find to enable SecuReporter auto suggestion. Both <b>SMTP</b> and <b>POP3</b> can be entered as a filter rule by entering <b>SMTP</b> and pressing <b>Enter</b> , and then entering <b>POP3</b> and pressing <b>Enter</b> .
URL	Enter the URL (a wildcard is allowed) where the threat was detected.
	When adding this as a filter rule, enter the URL or part of the URL you want to find to enable SecuReporter auto suggestion.
File Type	Enter the type of file sent for sandbox inspection (Archives (.zip), Executables, MS Office Documents, Macromedia Flash Data/PDF/RTF).
	When adding this as a filter rule, enter the file type or part of the file type you want to find to enable SecuReporter auto suggestion. More than one file type can be entered after the first filter rule by entering another file type and pressing <b>Enter</b> . Multiple file type filters can be entered one at a time.
Score Level	Enter the score given by the Defend Center for malware characteristics that has been detected through the sandboxing function (Malicious, Suspicious, and Clean).
	When adding this as a filter rule, enter the score level or part of the score level you want to find to enable SecuReporter auto suggestion. More than one score level can be entered after the first filter rule by entering another score level and pressing <b>Enter</b> . Multiple score level filters can be entered one at a time.
Hash	Copy the hash value (a wildcard is allowed) of the file that was sent for sandbox inspection.
	When adding this as a filter rule, copy the hash value or part of the hash value you want to find to enable SecuReporter auto suggestion.
Rule Number	Enter the log search rule number. This is assigned by the Zyxel Device.
	When adding this as a filter rule, enter the rule number and press <b>Enter</b> . More than one rule number can be entered after the first filter rule by entering another rule number and pressing <b>Enter</b> . Multiple rule number filters are entered one at a time.
Scan Result	Enter the scan result (White-List, Black-List, IP-Reputation, DNSBL, DNSBL-timeout, Spam, Virus, Spam-Virus, Timeout, Clear, and Phishing).
	When adding this as a filter rule, enter the scan result or part of the scan result you want to find to enable SecuReporter auto suggestion. More than one scan result can be entered after the first filter rule by entering another scan result and pressing <b>Enter</b> . Multiple scan result filters are entered one at a time.
Severity	Enter the severity levels as defined in the Zyxel Device. (1) Very-Low, (2) Low, (3) Medium, (4) High, and (5) Severe.
	The number in brackets is the number you use when adding this as a filter rule. More than one severity level can be entered after the first filter rule by entering another severity level and pressing <b>Enter</b> . Multiple severity level filters are entered one at a time.
Category Name	Enter the most common types of URL threats (case sensitive) as detected by the Zyxel Device. Threat categories include <b>Malware</b> , <b>Spam Sites</b> , and so on.
	When adding this as a filter rule, enter the category name or part of the category name you want to find to enable SecuReporter auto suggestion. More than one category name can be entered after the first filter rule by entering another category name and pressing <b>Enter</b> . Multiple category name filters can be entered one at a time.

Table 25 Search > Log > Security Indicator Screen (continued)

<sup>69</sup> 

LABEL	DESCRIPTION
Threat Name	Enter the name of the threat (a wildcard is allowed) as detected by the Zyxel Device. The value depends on the Zyxel Device.
	When adding this as a filter rule, enter the threat name you want to find.
Risk	Enter the threshold threat level to which the Zyxel Device will take action. (High, Medium, and Low). The threat level is determined by the IP reputation engine. It grades IPv4 addresses.
	When adding this as a filter rule, enter the threshold threat level or part of the threshold threat level you want to find to enable SecuReporter auto suggestion. More than one threshold threat level can be entered after the first filter rule by entering another threshold threat level and pressing <b>Enter</b> . Multiple threshold threat level filters can be entered one at a time.
Threat Category	Enter the most common type of threats posed by IPs blocked by the Zyxel Device as detected by IP Reputation. Threat categories include <b>Exploits</b> , <b>Spam Sources</b> , <b>Phishing</b> , and <b>BotNets</b> .
	When adding this as a filter rule, enter the threat category or part of the threat category you want to find to enable SecuReporter auto suggestion. More than one threat category can be entered after the first filter rule by entering another threat category and pressing <b>Enter</b> . Multiple threat category filters can be entered one at a time.
Risk IP	Enter the IPv4 or IPv6 address where the threat was detected.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 210.61.209.* (it will search for logs with any IP within 210.61.209.0 – 210.61.209.255).
Virus Name	Enter the name (case sensitive, a wildcard is allowed) of a virus.
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion.
File Name	Enter the name (a wildcard is allowed) of the file.
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion.
Application Category Name	Enter the most common types of applications as detected by the Zyxel Device. Application categories include <b>Application Service</b> , <b>Instant Messaging</b> , <b>Web</b> , <b>Encrypted</b> , and so on.
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one application category can be entered after the first filter rule by entering another application category and pressing <b>Enter</b> . Multiple application category filters are entered one at a time.
Application Name	Enter the most frequently visited applications (a wildcard is allowed) as detected by the Zyxel Application Patrol. App Patrol manages general protocols (for example, HTTP and FTP), instant messenger (IM), peer-to-peer (P2P), Voice over IP (VoIP), streaming (RSTP) applications and even an application's individual features (like text messaging, voice, video conferencing, and file transfers).
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one application name can be entered after the first filter rule by entering another application name and pressing <b>Enter</b> . Multiple application name filters are entered one at a time.
Web Category Name	Enter the most common types of threats posed by websites blocked by the Zyxel Device as detected by the URL Threat Filter. Threat categories include <b>Unrated</b> , <b>Anonymizers</b> , <b>Compromised</b> , <b>Phishing and Fraud</b> , <b>Spam Sites</b> , <b>Malware</b> , <b>Botnets</b> , and so on.
	When adding this as a filter rule, enter the web category name or part of the web category name you want to find to enable SecuReporter auto suggestion. More than one web category name can be entered after the first filter rule by entering another web category name and pressing <b>Enter</b> . Multiple web category name filters can be entered one at a time.

 Table 25
 Search > Log > Security Indicator Screen (continued)

LABEL	DESCRIPTION
Website	Enter the name of the website (a wildcard is allowed) tasked with screening for the most common types of threats posed by websites blocked by the Zyxel Devices.
	When adding this as a filter rule, enter the website or part of the website you want to find to enable SecuReporter auto suggestion.
Query Type	Enter the type of IP address that may pose a security threat to network devices behind the Zyxel Device.
	When adding this as a filter rule, select from the drop-down list. More than one query type can be entered after the first filter rule by entering another query type and pressing <b>Enter</b> . Multiple query type filters are entered one at a time.
Domain	Enter the URL of FQDNs that may pose a security threat to network devices behind the Zyxel Device.
	When adding this as a filter rule, select from the drop-down list. More than one domain can be entered after the first filter rule by entering another domain and pressing <b>Enter</b> . Multiple domain filters are entered one at a time.

Table 25 Search > Log > Security Indicator Screen (continued)

#### 3.2.4 Network Activity Logs

Network activity logs are categorized as follows:

- DNS Content Filter
- App Patrol
- Web Content Filter

The following figure shows the Search > Log > Network Activity screen.

Figure 30	Search >	Log >	Network	Activity
-----------	----------	-------	---------	----------

Security Indicator Network Activity		Traffic Event					
DNS Content Filter App Patrol Web Conte		rol Web Content	Filter				
							T A Last7 days ~
	Time		Source IP	Action	Category Name	Query Type	Domain
1	2024-08-231	3:46:14	192.168.80.70	Forward	Instant Messaging	А	mmx-ds.cdn.whatsapp.net
2	2024-08-231	3:42:44	192.168.170.76	Redirect	Games	A	gameplay.intel.com
з	2024-08-231	3:34:52	192.168.10.95	Redirect	Marketing/Merchandising	A	justpremium.com
4	2024-08-231	3:31:56	192.168.222.253	Block	Instant Messaging	DS	whatsapp.net
5	2024-08-231	3:28:10	192.168.244.105	Redirect	PUPs	A	d1vl8wytztdz.cloudfront.net
6	2024-08-231	3:27:03	192.168.182.239	Forward	Software/Hardware	А	dns.msftncsi.com
7	2024-08-231	3:22:43	192.168.210.7	Redirect	Pornography	А	notification.tubecup.net
4							

The following table describes the labels on the **Search** > **Log** > **Network Activity** screen.

LABEL	DESCRIPTION				
	Click <b>Clear All</b> to discard the filtering rules.				
•	Click Add Rule to create and manage the detailed filtering rules for each label.				
	Click <b>Search</b> to apply the filtering rule to the log search.				
	ClickPlease Select to set the filtering rule for each label.				
	Click 😢 to discard a filtering rule.				
	The $\mathbf{\Lambda}$ will appear for the following reasons. Hover the mouse cursor on it to know the type of error.				
	Please select a field. This occurs when you click the Search button without selecting a field.				
	<ul> <li>Please enter a value before clicking 'Search'. This occurs when you click the Search button without entering or selecting a value in the contains field.</li> </ul>				
	<ul> <li>Press 'Enter' to apply. This occurs when you click the Search button without pressing the Enter key for the contains field that can accept multiple values.</li> </ul>				
	The value cannot be found. This occurs when you enter a none existent value in the contains field				
	No log available. This occurs when no log is available for the filter value you enter or				
	<ul> <li>The value cannot be found. This occurs when entering the wrong character format in the contains field (for example, entering alphabetic characters for the Source IP field).</li> </ul>				
R	Click To have SecuReporter save the result of your log search to your computer in a CSV file. Maximum of 10,000 search results. Fields that do not have a value in the log search result will appear as blanks in the CSV file.				
	Depending on your license type, select the time frame by clicking a 'from' and 'to' dates. You can also specify the 'from' and 'to' hh:mm time range (24-hour format).				
	Then click <b>Apply</b> to display those logs.				
Time	Select the year-month-date hour:minute:second of the log.				
	When adding this as a filter rule, click the drop-down field on the right of the screen to select the time frame.				
Source IP	Enter the IPv4 or IPv6 address of the original sender of the packet.				
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 192.168.221.* (it will search for logs with any IP within 192.168.221.0 – 192.168.221.255).				
Source Port	Enter the port number of the original sender of the packet.				
	When adding this as a filter rule, enter the port number and press <b>Enter</b> . More than one port number can be entered after the first filter rule by entering another port number and pressing <b>Enter</b> . Multiple port number filters are entered one at a time.				
Destination IP	Enter the IPv4 or IPv6 address of the final destination of the packet.				
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 210.61.209.* (it will search for logs with any IP within 210.61.209.0 – 210.61.209.255).				
Destination Port	Enter the port number of the final destination of the packet.				
	When adding this as a filter rule, enter the port number and press <b>Enter</b> . More than one port number can be entered after the first filter rule by entering another port number and pressing <b>Enter</b> . Multiple port number filters are entered one at a time.				
Action (DNS Content	Enter how the Zyxel Device handle threats posed by domains (Block, Redirect, Forward).				
Fliter)	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.				

Table 26 Search > Log > Network Activity Screen
LABEL	DESCRIPTION		
Action (App Patrol)	Enter how the Zyxel Device handle threats posed by applications (reject, drop, forward).		
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.		
Action (Web Content	Enter how the Zyxel Device handle threats posed by websites (forward, block, warning).		
Filler)	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.		
User	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:		
	<ul> <li>For Partially Anonymous users, the user name is displayed but log search is disabled.</li> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, USER-698a9b31-cea4-523c-8955-ffad47db967e.</li> <li>For Nan Anonymous users, contar plan tout (unlimited number of character, case)</li> </ul>		
	sensitive) for log search.		
Application Category Name	Enter the most common types of applications as detected by the Zyxel Device. Application categories include <b>Application Service</b> , <b>Instant Messaging</b> , <b>Web</b> , <b>Encrypted</b> , and so on.		
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one application category can be entered after the first filter rule by entering another application category and pressing <b>Enter</b> . Multiple application category filters are entered one at a time.		
Application Name	Enter the most frequently visited applications (a wildcard is allowed) as detected by the Zyxel Application Patrol. App Patrol manages general protocols (for example, HTTP and FTP), instant messenger (IM), peer-to-peer (P2P), Voice over IP (VoIP), streaming (RSTP) applications and even an application's individual features (like text messaging, voice, video conferencing, and file transfers).		
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one application name can be entered after the first filter rule by entering another application name and pressing <b>Enter</b> . Multiple application name filters are entered one at a time.		
Web Category Name	Enter the most common types of threats posed by websites blocked by the Zyxel Device as detected by the URL Threat Filter. Threat categories include <b>Unrated</b> , <b>Anonymizers</b> , <b>Compromised</b> , <b>Phishing and Fraud</b> , <b>Spam Sites</b> , <b>Malware</b> , <b>Botnets</b> , and so on.		
	When adding this as a filter rule, enter the web category name or part of the web category name you want to find to enable SecuReporter auto suggestion. More than one web category name can be entered after the first filter rule by entering another web category name and pressing <b>Enter</b> . Multiple web category name filters can be entered one at a time.		
Website	Enter the website (a wildcard is allowed) to screen the most common threats by websites blocked by the Zyxel Device.		
	When adding this as a filter rule, enter the website or part of the website you want to find to enable SecuReporter auto suggestion.		
Query Type	Enter the DNS record types for accessed domains that were blocked. DNS record types include <b>A</b> , <b>AAAA</b> , <b>HTTPS</b> , <b>TXT</b> and so on.		
	When adding this as a filter rule, select from the drop-down list. More than one query type can be entered after the first filter rule by entering another query type and pressing <b>Enter</b> . Multiple query type filters are entered one at a time.		

 Table 26
 Search > Log > Network Activity Screen (continued)

LABEL	DESCRIPTION
Domain	Enter the URL of FQDNs that may pose a security threat to network devices behind the Zyxel Device.
	When adding this as a filter rule, select from the drop-down list. More than one domain can be entered after the first filter rule by entering another domain and pressing <b>Enter</b> . Multiple domain filters are entered one at a time.
Rule	Enter the name of the policy control rule the the connection is using.
	When adding this as a filter rule, select from the drop-down list. More than one rule can be entered after the first filter rule by entering another domain and pressing <b>Enter</b> . Multiple domain filters are entered one at a time.
Source Hostname	This is the hostname of the original sender of the packet.
Source MAC Address	This is the MAC address of the original sender of the packet.
Device Category	This is the device type of the original sender of the packet.
Device OS	This is the device operatiing system of the original sender of the packet.

 Table 26
 Search > Log > Network Activity Screen (continued)

### 3.2.5 Traffic Logs

The following figure shows the **Search** > **Log** > **Traffic** screen.

Figure 31	Search > Log > Traffic
rigule 31	search > Lug > hanc

Search	n Log								ŧ
Secur	rity Indicator Netwo	ork Activity <b>Tr</b>	affic Eve	nt					
							Т	Last 24 hours	•
	Time	Source IP	Source Port	Destination IP	Destination Port	Application Name	Traffic Protocol	Connection Duration(S)	
1	2024-08-23 13:48:40	192.168.254.81	28557	89.143.221.136	25	others	TCP	12	
2	2024-08-23 13:46:14	192.168.80.70	63702	8.8.8.8	53	domain	TCP	6	
3	2024-08-23 13:45:59	192.168.60.36	58320	186.14.180.29	587	others	TCP	14	
4	2024-08-23 13:44:19	192.168.188.54	65471	193.246.105.19	443	https	TCP	10	
5	2024-08-23 13:42:44	192.168.170.76	57306	9.9.9.9	53	domain	TCP	8	
6	2024-08-23 13:42:26	192.168.246.144	64663	170.164.252.175	587	others	TCP	7	
7	2024-08-23 13:41:05	192.168.53.27	55929	8.8.4.4	53	domain	ТСР	7	
•								Þ	•

The following table describes the labels on the **Search** > **Log** > **Traffic** screen.

LABEL	DESCRIPTION
T	Click <b>Clear All</b> to discard the filtering rules.
	Click Add Rule to create and manage the detailed filtering rules for each label.
	Click <b>Search</b> to apply the filtering rule to the log search.
	ClickPlease Select to set the filtering rule for each label.
	Click 😢 to discard a filtering rule.
	The $\mathbf{\Lambda}$ will appear for the following reasons. Hover the mouse cursor on it to know the type of error.
	• Please select a field. This occurs when you click the Search button without selecting a field.
	• Please enter a value before clicking 'Search'. This occurs when you click the Search button without entering or selecting a value in the contains field.
	<ul> <li>Press 'Enter' to apply. This occurs when you click the Search button without pressing the Enter key for the contains field that can accept multiple values.</li> </ul>
	The value cannot be found. This occurs when you enter a none existent value in the contains field.
	<ul> <li>No log available. This occurs when no log is available for the filter value you enter or select.</li> </ul>
	• The value cannot be found. This occurs when entering the wrong character format in the contains field (for example, entering alphabetic characters for the Source IP field).
R	Click To have SecuReporter save the result of your log search to your computer in a CSV file. Maximum of 10,000 search results. Fields that do not have a value in the log search result will appear as blanks in the CSV file.
	Depending on your license type, select the time frame by clicking a 'from' and 'to' dates. You can also specify the 'from' and 'to' hh:mm time range (24-hour format).
	Then click <b>Apply</b> to display those logs.
Time	Select the year-month-date hour:minute:second of the log.
	When adding this as a filter rule, click the drop-down field on the right of the screen to select the time frame.
Source IP	Enter the IPv4 or IPv6 address of the original sender of the packet.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 192.168.221.* (it will search for logs with any IP within 192.168.221.0 – 192.168.221.255).
Source Port	Enter the port number of the original sender of the packet.
	When adding this as a filter rule, enter the port number and press <b>Enter</b> . More than one port number can be entered after the first filter rule by entering another port number and pressing <b>Enter</b> . Multiple port number filters are entered one at a time.
Destination IP	Enter the IPv4 or IPv6 address of the final destination of the packet.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 210.61.209.* (it will search for logs with any IP within 210.61.209.0 - 210.61.209.255).
Destination Port	Enter the port number of the final destination of the packet.
	When adding this as a filter rule, enter the port number and press <b>Enter</b> . More than one port number can be entered after the first filter rule by entering another port number and pressing <b>Enter</b> . Multiple port number filters are entered one at a time.

Table 27 Search > Log > Traffic

LABEL	DESCRIPTION
Application Name	Enter the most frequently visited applications (case sensitive) as detected by the Zyxel Application Patrol. APP Patrol manages general protocols (for example, HTTP and FTP), instant messenger (IM), peer-to-peer (P2P), Voice over IP (VoIP), streaming (RSTP) applications and even an application's individual features (like text messaging, voice, video conferencing, and file transfers).
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one application can be entered after the first filter rule by entering another application and pressing <b>Enter</b> . Multiple application filters are entered one at a time.
Traffic Protocol	Enter the type of transport packet being carried (TCP/UDP/OTHERS).
	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one traffic protocol can be entered after the first filter rule by entering another traffic protocol and pressing <b>Enter</b> . Multiple traffic protocol filters are entered one at a time.
Connection Duration(S)	This is the length of the network session in seconds.
Inbound Traffic	This is the amount of information received by the source in the network session.
Outbound Traffic	This is the amount of information transmitted by the source in the network session.
User	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:
	• For Partially Anonymous users, the user name is displayed but log search is disabled.
	<ul> <li>For Fully Anonymous users, copy a Hash value to search for logs.</li> <li>For example, USER-698a9b31-cea4-523c-8955-ffad47db967e.</li> </ul>
	<ul> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case sensitive) for log search.</li> </ul>
Astra Email	This is the Astra user's mail address of the original sender of the packet.
Source Hostname	This is the hostname of the original sender of the packet.
Source MAC Address	This is the MAC address of the original sender of the packet.
Device Category	This is the device type of the original sender of the packet.
Device OS	This is the device operatiing system of the original sender of the packet.

Table 27 Search > Log > Traffic (continued)

## 3.2.6 Event Logs

Event logs are categorized as follows:

- User Login
- Device Event
- DHCP

The following figure shows the **Search** > **Log** > **Event** screen.

Security	y Indicator Network Activit	y Traffic <b>E</b>	vent								
User Eve	ent Device Event DHCP										
									R T	Last 7 days	*
	Time	Source IP	Destination IP	Service Name	Action	Usor	Туре	MAC Address	Old Value	New Value	
1	2024-08-21 11:04:18	192.168.166.35	192.168.166.1	http/https	logged-out	admin	Administrator	-			â
2	2024-08-21 09:49:45	192.168.166.33	192.168.166.1	http/https	logged-out	admin	Administrator				
з	2024-08-20 17:50:32	192.168.166.33	192.168.145.1	http/https	logged-out	admin	Administrator				
4	2024-08-20 17:05:15	192.168.145.35	192.168.145.1	http/https	logged-out	admin	Administrator				
5	2024-08-20 16:40:58	192.168.1 <mark>66.3</mark> 3	192.168.166.1	http/https	logged-out	admin	Administrator	-			
6	2024-08-20 16:36:22	192.168.158.33	192.168.158.1	http/https	logged-out	admin	Administrator				
7	2024-08-20 16:27:42	192.168.166.33	192.168.166.1	http/https	logged-out	admin	Administrator				
8	2024-08-20 16:26:47	192.168.158.33	192.168.158.1	http/https	logged-out	admin	Administrator	-			٣
										Total 31 items	ŝ

Figure 32 Search > Log > Event

The following table describes the labels on the **Search** > **Log** > **Event** screen.

LABEL	DESCRIPTION			
T	Click Clear All to discard the filtering rules.			
	Click Add Rule to create and manage the detailed filtering rules for each label.			
	Click <b>Search</b> to apply the filtering rule to the log search.			
	ClickPlease Select to set the filtering rule for each label.			
	Click 😢 to discard a filtering rule.			
	The $\bigwedge$ will appear for the following reasons. Hover the mouse cursor on it to know the type of error.			
	Please select a field. This occurs when you click the Search button without selecting a field.			
	• Please enter a value before clicking 'Search'. This occurs when you click the Search button without entering or selecting a value in the contains field.			
	<ul> <li>Press 'Enter' to apply. This occurs when you click the Search button without pressing the Enter key for the contains field that can accept multiple values.</li> </ul>			
	• The value cannot be found. This occurs when you enter a none existent value in the contains field.			
	• <b>No log available.</b> This occurs when no log is available for the filter value you enter or select.			
	• The value cannot be found. This occurs when entering the wrong character format in the contains field (for example, entering alphabetic characters for the Source IP field).			
R	Click A to have SecuReporter save the result of your log search to your computer in a CSV file. Maximum of 10,000 search results. Fields that do not have a value in the log search result will appear as blanks in the CSV file.			
	Depending on your license type, select the time frame by clicking a 'from' and 'to' dates. You can also specify the 'from' and 'to' hh:mm time range (24-hour format).			
	Then click <b>Apply</b> to display those logs.			
Time	Select the year-month-date hour:minute:second of the log.			
	When adding this as a filter rule, click the drop-down field on the right of the screen to select the time frame.			

Table 28 Search > Log > Event Screen

LABEI	DESCRIPTION
Source IP	Enter the IPv4 or IPv6 address of the original sender of the packet
Source IP	
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 192.168.221.* (it will search for logs with any IP within 192.168.221.0 – 192.168.221.255)
Destination IP	Enter the IPv4 or IPv6 address of the final destination of the packet.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 210.61.209.* (it will search for logs with any IP within 210.61.209.0 – 210.61.209.255).
Service Name	Enter the login method (console, http/https, ssh).
	When adding this as a filter rule, enter the service name or part of the service name you want to find to enable SecuReporter auto suggestion. More than one service name can be entered after the first filter rule by entering another service name and pressing <b>Enter</b> . Multiple service name filters can be entered one at a time.
Action	Enter the status of the login attempt (Failed-login / logged-in / logged-out).
Event > User Login	When adding this as a filter rule, enter the first letter to enable SecuReporter auto suggestion. More than one action can be entered after the first filter rule by entering another action and pressing <b>Enter</b> . Multiple action filters are entered one at a time.
Action	Enter the action of assigning an IP address to a device by the DNS server or release
Event > DHCP	(assigned and release).
	When adding this as a filter rule, enter the action or part of the action you want to find to enable SecuReporter auto suggestion. Both <b>assigned</b> and <b>release</b> can be entered as a filter rule by entering <b>assigned</b> and pressing <b>Enter</b> , and then entering <b>release</b> and pressing <b>Enter</b> .
Assign IP	This is the IPv4 or IPv6 address currently assigned to a DHCP client or reserved for a specific MAC address.
	When adding this as a filter rule, enter the complete IP address or enter a wildcard such as 192.168.221.* (it will search for logs with any IP within 192.168.221.0 - 192.168.221.255)
User	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:
	<ul> <li>For Partially Anonymous users, the user name is displayed but log search is disabled.</li> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, USER-698a9b31-cea4-523c-8955-ffad47db967e.</li> </ul>
	<ul> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case sensitive) for log search.</li> </ul>
Туре	Enter the role type (a wildcard is allowed) of the event's login attempt (Administrator, Limited-Admin, User).
	When adding this as a filter rule, enter the role type or part of the role type you want to find to enable SecuReporter auto suggestion.
MAC Address	Enter the Zyxel Device's MAC address (case sensitive) during the event's login attempt.
Event > User Login	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:
	For <b>Partially Anonymous</b> users, the MAC address is displayed but log search is disabled.
	<ul> <li>For Fully Anonymous users, copy a Hash value to search for logs.</li> <li>For example, MAC-5ba49d8a-d027-5c76-bf28-a45857f780bc</li> </ul>
	<ul> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case sensitive) for log search.</li> </ul>

 Table 28
 Search > Log > Event Screen (continued)

LABEL	DESCRIPTION
MAC Address Event > DHCP	Enter the MAC address (case sensitive) to which the IP address is currently assigned or for which the IP address is reserved.
	Depending on the data protection policy (see <u>Section 6.2.1 on page 95</u> for details), the following will be displayed:
	<ul> <li>For Partially Anonymous users, the MAC address is displayed but log search is disabled.</li> </ul>
	<ul> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, MAC-5ba49d8a-d027-5c76-bf28-a45857f780bc.</li> </ul>
	<ul> <li>For Non-Anonymous users, enter plain text (unlimited number of characters, case sensitive) for log search.</li> </ul>
Device Event	This displays <b>boot-up</b> as the Zyxel Device event.
Host Name	Enter the unique name (case sensitive) by which a device is known on a network. The Zyxel Device learns these from the DHCP client requests.
	Depending on the data protection policy (see Section 6.2.1 on page 95 for details), the following will be displayed:
	• For Partially Anonymous users, the host name is displayed but log search is disabled.
	<ul> <li>For Fully Anonymous users, copy a Hash value to search for logs. For example, HOST-8c9f2269-c7fa-55e5-b36f-d8987efd11ee.</li> </ul>
	• For <b>Non-Anonymous</b> users, enter plain text (unlimited number of characters, case sensitive) for log search.

 Table 28
 Search > Log > Event Screen (continued)

## 3.3 Search User

The **Search** > **Activity** screen allows administrators to look up network activity by user. A user-aware user is a user who must log in to the Zyxel Device, so that the Zyxel Device can apply specific routing policies and security settings to this user. The Zyxel Device is 'aware' of the user who is logged in and therefore can store 'user-aware' analytics and logs.

To perform a search, click Search > Activity.

In the field at the top-left of the screen, enter a username. You may also enter a partial term to generate a list of matching results.

Figure 33 Search > Activity > User

Search Activity				
User 🔻	Adam			
Security	Type to search	Q 		
Overview	Amanda			
Security Eve	Andrew Arthur	1		
	Brenda			
6 4	Briana	- -		
2	ANA	AALAA		

### 3.3.1 Details

Click an entry in your search results to open up a report of the user's recent security events, application usage, website usage, top destination countries, and login or logout history.

Security events include anomalies, app patrol, malware, spam, threats (IPS), unsafe websites, and web protection (websites blocked by web security policies). The following table shows severity levels for security events.

SECURITY EVENT	SEVERITY DEFINITION
IPS	IPS: highest is 5, lowest is 1
	Severity from 1 – 5
Malware	Severity 4
Spam	Severity 3
Unsafe website access	<ul> <li>For these categories, severity is 4</li> <li>Botnets</li> <li>Compromised</li> <li>Malware</li> <li>Phishing &amp; Fraud</li> </ul>
	Spam sites: severity 3
	Anonymizers: severity 2
	Network errors: severity 1
Anomaly	Severity 2

Table 29 Security Events Severity Levels

Select an username in **Search** > **Acitivity** > **User** to display the following figure.

Figure 34 Search > Acitivity > User



Click a graph to see further usage details for this user. The following figure shows details on security events through the selected Zyxel Device for this user.

Figure 35 Search > User > Details > Security Event (Hits)



# CHAPTER 4 Alerts

## 4.1 Overview

An alert is a notification about a potential security problem. SecuReporter offers several ways for you to monitor the security environment of your network. One way is by generating alerts when it detects potential security problems. Using user behavior analytics, SecuReporter is able to identify anomalous and suspicious activity, creating alerts to bring them to your attention.

## 4.2 Trend & Details

To see the alerts that have been raised by SecuReporter, click History > Alert.

On the screen, a graph sorts your recent alerts by the severity of the threat they pose to the network. The alert classifications are as follows:

- High severity Events that are exceptionally harmful, such as attacks by viruses.
- Medium severity Events that could collect users' personal information or adversely affect the network.
- Low severity Events that usually have no adverse effect on a network.

By default, trend lines for alerts of all three severity levels will appear in this graph. To hide the trend line of a severity level, click on its corresponding color block on the top.

Below the chart, you can view a complete log of all SecuReporter alerts that have been created. To order the alerts by variables such as **Time**, **Category**, **Event Type**, and **Severity**.

The following table shows event categories, types and criteria supported by SecuReporter at the time of writing.

CATEGORY	EVENT TYPES	CRITERIA	TIME ALLOWED
Network Security	URL Threat Filter	Number of times connection attempts to or from a site in an URL threat category detected and blocked is greater than the threshold	60 minutes
Network Security	IP Reputation-Incoming	Number of times packets coming from an IPv4 address with bad reputation occurred is greater than the threshold	10 minutes
Network Security	IP Reputation-Outgoing	Number of times connection attempt to an IPv4 address with bad reputation occurred is greater than the threshold within	60 minutes
Network Security	Sandboxing malicious file	Number of malicious files destroyed is greater than the threshold	5 minutes

Table 30 Event Categories, Types and Criteria



CATEGORY	EVENT TYPES	CRITERIA	TIME ALLOWED
Network Security	Sandboxing suspicious file	Number of suspicious files destroyed is greater than the threshold	5 minutes
Network Security	DNS Filter	Number of times connection attempt to a FQDN that is blocked or in the threat category	60 minutes
Network Security	Attack counts	Number of highest severity attacks greater than the threshold	5 minutes
Network Security	Attack counts	Number of attacks greater than the threshold	5 minutes
Network Security	Malware/virus detection	Malware or virus attack count greater than the threshold	5 minutes
Network Security	Malware/virus detection	Number of times the same malware/virus is detected greater than the threshold	15 minutes
Network Security	Alert counts	Number of alerts greater than the threshold	1 minute
Device	Online status	Device offline for more than {threshold} minutes	15 minutes
Device	Reboot	Reboot	-
Device	Concurrent sessions	Session numbers greater than the {threshold} %	-
Anomaly	Login failure	Number of login failures over threshold	1 minute
Anomaly	Traffic anomaly	Number of scans/floods detected greater than the threshold	5 minutes
Anomaly	Protocol anomaly	Number of TCP/UDP/ICMP/IP decoders greater than the threshold	5 minutes

 Table 30
 Event Categories, Types and Criteria (continued)





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The following table describes the labels on this screen.

LABEL	DESCRIPTION
Alert Severity (Hits)	Use this interactive graph to view trends in the severity of all the alerts that have been triggered on the network. The event severity classifications are as follows:
	High severity – Events that are exceptionally harmful, such as attacks by viruses [OR: 10 potential malware attacks within 5 minutes]
	Medium severity – Events that could collect users' personal information or adversely affect the network [OR: 2 potential malware or virus attacks within 15 minutes]
	Low severity – Events that usually have no adverse effect on a network.
	Trend lines for all security classifications appear on the graph by default. Click on a color block to hide its corresponding trend line.
Severity Alerts	This table shows a list of recent security events.
Time	This displays the year-month-date hour:minute:second that the threat occurred.
Category	This displays the alerts by category.
Event type	This displays the type of alert that was triggered. Examples of alert types are IPS, Spam, Virus and Web.
Severity	This displays the severity level as outlined in Table 7 on page 12.
Description	This displays the further information on this alert.

Table 31 History > Alert

## 4.3 Alert Settings

Configure alert settings, such as recipients, email subject, event severity levels to email, and event triggering thresholds in the **History** > **Alert** > **Alert Settings** screen.

rt Settings	
Email Notification	
Get email alerts for:	
○ High Events Only	
⊖ High & Medium Events	
Itigh, Medium & Low Events	
Get email alerts after:	
● 10 Minutes ○ 1 Hour ○ 1 Day	
Add email alerts to:	
secureporter.prod@gmail.com ×	
Email Title	
[Beta] Alert Mail Demo Site ATP100	
Description	
@@ Zoella edit!	

The following table describes the labels in this screen.

test

LABEL	DESCRIPTION
Email Notification	Off means no alerts are emailed to any recipients. Select On (slide switch to the right) to have alerts emailed to the selected recipients.
Get email alerts for	<ul> <li>Select the severity levels of the security events for which you wish to send out email notifications.</li> <li>High Events Only – Events that are exceptionally harmful, such as attacks by viruses or a high frequency of attacks.</li> <li>High &amp; Medium Events – Events that are exceptionally harmful, and events that usually have no adverse effect on a network or a low frequency of attacks.</li> <li>High, Medium &amp; Low Events – Events that are exceptionally harmful, events that usually have no adverse effect on a network, and events that could collect users' personal information or adversely affect the network or a medium frequency of attacks.</li> </ul>
Get email alert after	Select <b>10 Minutes</b> , <b>1 Hour</b> , or <b>1 Day</b> to choose how often you want to receive alert notifications.
Add email alerts to	This is where you can add users to the mailing list for event notifications. To add a user, click the field window to select one or more names from the box.
Email Title	Type an email subject here.
Description	Type a description of the emails to be sent here. For example, maybe these emails are just for high severity events.

Networ	k Security Device Anomaly
High	Number of highest severity attacks is over 1 times within 5 minutes.
High	Number of attacks is over 10 times within 5 minutes.
High	Malware/virus attack count is over 10 times within 5 minutes.
High	Number of Malware/IPS(highest severity)/ADP(protocol anomaly) hits count exceed 10 within 1 minute.
High	Number of destroyed malicious files is over 10 times within 5 minutes.
High	Number of destroyed suspicious files is over 10 times within 5 minutes.
High	Number of connection to threat websites is over 5 times within 60 minutes.
High	Number of internal IP is attacked by external threat IP is over 50 times within 10 minutes.
High	Number of connection to threat IP is over 1 times within 60 minutes.
High	Number of connection to threat/block DNS domain is over 5 times within 60 minutes.
Medium	The same malware/virus is detected over 2 times within 15 minutes.

Figure 38 History > Alert > Alert Settings > View/Edit Alert Definition > Network Security

The following table describes the labels in this screen.

Table 22	Listory > Alort	Alort Sottings >	Viow/Edit Alc	ort Dofinition 🔊	Notwork Socurity
Table 33	I IISLUI Y > AIELL	> AIEIT JETTII AS >	VIEW/LUILAIE		
	,	. /			,

LABEL	DESCRIPTION		
View/Edit Alert Definition			
Network Security	This table shows a list of recent network security events.		
(set the threshold)	The threshold is the number that triggers an alert. If the threshold is adjustable, a blank field will appear. Set the threshold for the alert by entering the numeric value or by pressing the up- and down-arrows. Adjustable values vary and include frequency, rate of occurrence, and the time period.		

The table shows a list of recent Zyxel Device usage events.

Figure 39	History >	Alert >	Alert Settings >	View/Edit	Alert Definition	> Device
inguie 57	instory /		AICH JCHINGS /	VICVV/LUIL	AICH DCHINION	> DCVICC

View / Edit Alert Definition	^
Network Security Device Anomaly	
Medium Device disconnected for more than 15 minutes.	
Low Percentage of used session is over 90 %.	
Low Restart the Zyxel device.	
Cancel Save	

The following table describes the labels in this screen.

Table 34 His	story > Alert >	Alert Settings >	View/Edit	Alert Definition >	> Device
--------------	-----------------	------------------	-----------	--------------------	----------

LABEL	DESCRIPTION
View/Edit Alert Definition	1
Percentage of used session is over %	The Zyxel Device has a limit on the number of concurrent active connections allowed. You can set a percentage threshold of this limit, and an alert will be sent if the number of connections exceeds this threshold.

Network Sec	curity Device	Anomaly		
High	Number of traffic c 1 tir	nomaly scans/f mes within 5 mir	loods detect nutes.	ed is over
High	Number of protoco over 1	anomaly TCP/I times within	UDP/ICMP/IF 5 minutes.	decoders is
Medium	Number of login fa minute.	ilures is over	10	times within 1

Figure 40 History > Alert > Alert Settings > View/Edit Alert Definition > Anomaly

The following table describes the labels in this screen.

LABEL	DESCRIPTION
View/Edit Alert Definition	1
Anomaly	This table shows a list of recent traffic and protocol anomalies.
(set the threshold)	The threshold is the number that triggers an alert. If the threshold is adjustable, a blank field will appear. Set the threshold for the alert by entering the numeric value or by pressing the up- and down-arrows. Adjustable values vary and include frequency, rate of occurrence, and the time period.

Table 35 History > Alert > Alert Settings > View/Edit Alert Definition > Anomaly

# CHAPTER 5 Report

## 5.1 Overview

A report is a summary of activities for a claimed Zyxel Device over a period of time. It is available in HTML or PDF format. The SecuReporter's Report allows you to define the title and description, what to include in the report, and who to send it to. Customize your reports based on the traffic diversity of your organization.

You can choose to generate reports of analyzed data collected over one of three time frames:

- Last 24 hours
- Last 7 days
- Last 30 days

## 5.2 All Reports

Click **History** > **Report** > **All Report** to view and manage a list of SecuReporter reports generated over the last 365 days. Reports will automatically be removed from the list after one year.

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Report	•	·		
All Rep	orts Report Settings			
Latest Re	ports :			
d.	h <mark>ad</mark> ih.	SMTWTF	S	
	Daily Report 2024-08-13-2024-08-14	Weekly Report 2024-08-04-2024-08	3-11	Monthly Report 2024-07-01-2024-08-01
History R	eports :			
Daily	Report Weekly Report	Monthly Report		
	Time	Title	Report Peri	od
1	2024-08-14 00:17:31	Zyxel Security Report	2024-08-13-	-2024-08-14
2	2024-08-13 00:17:40	Zyxel Security Report	2024-08-12-	2024-08-13
з	2024-08-12 00:17:27	Zyxel Security Report	2024-08-11-2	2024-08-12
4	2024-08-11 00:16:22	Zyxel Security Report	2024-08-10-	-2024-08-11
5	2024-08-10 00:15:37	Zyxel Security Report	2024-08-09	-2024-08-10
6	2024-08-09 00:15:28	Zyxel Security Report	2024-08-08	-2024-08-09
7	2024-08-08 00:20:29	Zyxel Security Report	2024-08-07	-2024-08-08
8	2024-08-07 00:19:46	Zvxel Security Report	2024-08-06	-2024-08-07 ·

Figure 41 History > Report > All Reports

The following table describes the labels on this screen.

Table 36 History > Report > All Reports

LABEL	DESCRIPTION
Latest Reports	Get a summary report of activities in HTML or PDF format.
	Latest Reports are classified according to the following:
	<ul><li>Daily Report</li><li>Weekly Report</li><li>Monthly Report</li></ul>
	Clicking any of the above will allow you to view the report online. You can then download it in PDF format or print it.
History Reports	<ul> <li>This displays the type of report by clicking on the tab.</li> <li>Daily Report</li> <li>Weekly Report</li> <li>Monthly Report</li> </ul>
Time	This displays the reports in order of the date and time they were created, starting with the most recent one.
Title	This displays the title of each report as configured in <b>Report Settings</b> .

LABEL	DESCRIPTION		
Report Period	This displays the date that the report covers.		
	For a daily type of report a range of two consecutive dates will be displayed. For a weekly type of report a range of seven consecutive dates will be displayed. For a monthly type of report a range of 30 consecutive dates will be displayed.		
Action	Click a row to display the report online. You can then download it in PDF format or print it.		
	Click < to send a report in PDF format to the designated email recipients. Enter an email address and press <b>Enter</b> .		
	Note: You can configure up to 30 email addresses.		
	Click 💽 to save a report in PDF format to your computer. Upon clicking (Download), you will be asked where you want to save the report in your computer.		

Table 36 History > Report > All Reports (continued)

# 5.3 Report Settings

Click **History** > **Report** > **Report Settings** to enable or disable a report profile, and configure what to include in your customized report. You can also make changes to existing report configurations.

atus				
over		^		ZYXEI
Cover Design				NETWORK
E28		700 100 100 100 100 100	Zyxel Secur	ity Report
		2	2023-01-01 - 2023	-01-02
Clausic	Security	Simplicity	Organization Device	Demo. ATP100W
Customized Logo		Browse		
Report Title				
Zyxel Security Report			1	
Zyvel Security Report . ontent. Security Indicator ADP 1PS URL Threat Filter Sondboxing	<ul> <li>IP Reputation</li> <li>DNS Threat F</li> <li>Antivirus / Ms</li> <li>Mail Protection</li> </ul>	a Siter Siter Siter		Lada by Zynd Netwerk I Sacularport
Zyvel Security Report : ortent : Security Indicator ADP 195 URI, Theot Filter Sandbourg Network Activity	<ul> <li>IP Reputation</li> <li>DNS Threat F</li> <li>Antivirus / MB</li> <li>Mail Protection</li> </ul>	n Ster Share Share		Matter by Zyral Network 1 Sacularport
Zvvel Security Report : ordent  Security Indicator  ADP  IIIS  URL Threat Filter  Sandboxing  Network Addivity  Divis Content Filter  Network Content Filter	<ul> <li>IP Reputation</li> <li>DNS Threat F</li> <li>Antivirus / Mail Protection</li> <li>Mail Protection</li> <li>App Patrol</li> </ul>	n Ster Share Share	Overview	Made by Zyral Network I Sacultaport
Zvvel Security Report : ortent Security Indicator ADP IPS URL Threat Filter Sandboxing Network Adjvity DNS Content Filter Web Content Filter	<ul> <li>IP Reputation</li> <li>DNS Threat F</li> <li>Anthinus / Me</li> <li>Mail Protection</li> <li>Mapp Patrol</li> </ul>	n Rer alvare an	Overview Bosico Device Status	Andre by Zyvel Network I Eaculiaport
Zvvel Security Report : ordent Security Indicator ADP IIIS URL Threat Filter Sandbaxing Network Addivity DNS Content Filter Web Content Filter Traffic mail	<ul> <li>IP Reputation</li> <li>DNS Thread F</li> <li>Antivinus / Mail Protection</li> <li>Mail Protection</li> <li>App Patrol</li> </ul>	an a	Overview Boild Control Lings from Difference Lings from Difference Lings from Difference Lings from Difference Lings from Difference Lings from Difference Lings from Difference	Made by Zynel Network I Seculitaport
Zvvel Security Report : ortent : Security Indicator ADP IIIS URL Threat Filter Sandbaxing Network Addivity DNS Content Filter Web Content Filter Traffic mail Email Table	<ul> <li>IP Reputation</li> <li>DNS Threat F</li> <li>Antivinus / Mail Protection</li> <li>Mail Protection</li> <li>App Patrol</li> </ul>	* Rer aware an	Overview Boild Decos Status	Made by Zynel Network I Sacuskaport
Zvvel Security Report : ordent : Security Indicator ADP IPS URL Thread Filter Condoxing Network Activity DNS Content Filter Veb Content Filter Traffic Email Email Title SecuReporter Schedule Report	<ul> <li>IP Reputation</li> <li>DNS Thread, F</li> <li>Antivirus / Mol</li> <li>Mail Protection</li> <li>App Potrol</li> </ul>	n Alter Share Sh	Overview Biological Status CPU/Henny Usage Tread Difference Status CPU/Henny Usage Tre	Made by Zyvel Network I Sacusfieport
Zvvel Security Report .  ortent  Security Indicator  ADP  DisS  DoP  DisS  DoP  DisS  DoP  DisS  Dortent Filter  DisS  Content Filter  Troffic  Filter  Secureporter Schedule Report  Always receive report for device opent and admi Use No	<ul> <li>IP Reputation</li> <li>DNS Threads F</li> <li>Anthinue / Me</li> <li>Mail Protection</li> <li>Mail Protection</li> <li>App Patrol</li> </ul>	a de la constante	Overview Boild Control Status COL/Memory Usage Treat Out/Memory Usag	Ander by Zyvel Network I. Becyclic port Million 1400 (Million 1400) Million 1400 (Million 1400) Mill
Zvvel Security Report : ortent : Security Indicator ADP IPS URL Threat Filter Sondboxing Network Activity DNS Content Filter Network Activity Network Activity Network Activity DNS Content Filter Troffic Troffic Filter Secureporter Schedule Report Always receive report for device opent and admin Vis: No Additionally, send email reports to :		a de la de de la de la		Ande by Zynel Network I. Bacuffarport Michael by Zynel Jene Network I. Bacuffarport Michael by Zynel

Figure 42 History > Report > Report Settings

The following table describes the labels on this screen.

Table 37	History >	Report >	Report	Settings
----------	-----------	----------	--------	----------

LABEL	DESCRIPTION
Status	Click the button to enable or disable the scheduled report.
Cover	
Cover Design	Select a cover style for your report.
Customized Logo	Click the button to show or hide the logo you uploaded.
	Click <b>Browse</b> and select a graphic in JPG, PNG, or GIF format that is smaller than 100KB to use as your logo. This logo will be displayed on the cover page of the report.
Report Title	Enter a title to display on the cover page of your report. You can enter up to 144 characters.
Content	The widgets are the security services and traffic indicators that you can select to be included in the report profile. Refer to Chapter 2 Analysis for a description of the widgets.
	Click an item (with check mark) to include it in the report profile.

SecuReporter's User's Guide

Table 27	History > Doport >	Doport Sottings	(continued)
Idule 3/	$-\pi S(U) = V > REDUL >$	Repoir Seminos	COMMUNEO
			( )

LABEL	DESCRIPTION
Email	
Email Title	This field allows you to enter a descriptive name for the report title (for example Zyxel Security Report). Up to 255 characters are allowed for the <b>Email Title</b> including special characters inside the square quotes $[-!@#\$\%^&*()_+{}]:"<>?=[]\;',./].$
Always receive report for device agent and admin?	<ul> <li>Select Yes to enable the sending of a report in PDF format to the Zyxel Device's agent and admin. Refer to Table 3 on page 7 for the privileges of agent and admin.</li> <li>Note: No must be selected if agent and admin do not wish to receive the report through email. A summary of activities over the selected period of time is still generated.</li> </ul>
Additionally, send email reports to:	This field allows you to enter the report's designated email recipients other than the Zyxel Device's agent and admin. Use a comma (,) to separate the email addresses with no space in between two email addresses. A maximum of 30 email recipients is allowed. (Example: adam@zyxel.com, brenda@zyxel.com)
Cancel	Click Cancel to restore your previously saved settings.
Save	Click <b>Save</b> to save your changes.

# CHAPTER 6 Settings

## 6.1 Overview

First, register your Zyxel Device at *myZyxel.com*, activate the SecuReporter license, and enable SecuReporter in the Zyxel Device using its Web Configurator or commands. You can then add your Zyxel Device to an organization at the SecuReporter web portal.

Note: Only the Zyxel Device owner, that is the person who has registered the Zyxel Device at *myZyxel.com*, and activated the SecuReporter license, can add a Zyxel Device to an organization. See Table 3 on page 7 for details on management privileges.

## 6.2 Organization & Device

In (More)  $\bigcirc$  (upper right icon) > **Organization & Device**, you see all organizations that you have already created. You do not see organizations other people created.

1 Click Add Organization to create a new organization.

			+ Add Organizatio
Name	Owner	Device Number	
😵 FrankField	YITSEN LIAO	1	
😵 MJ-Home	MJ WANG	3	
🚱 SVD_Demo	secureporter-1 zyxel-1	4	8
📀 Simulator	secureporter-1 zyxel-1	2	
Zyxel	Hsiuvi Tseng	4	

2 Enter a name of up to 255 characters and description for the organization.

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Add Organization	
Organization Name	
Description	
	Cancel Add

### 6.2.1 Add a Zyxel Device to an Organization

On the **Device** tab, the hyperlink under **Unclaimed** displays the Zyxel Devices that are available to be added to this organization by the Zyxel Device owner.

Organization Device	0			
Device Name	Model	Device Status †	License Status 🔸	
0902	USG110	Unclaimed	Active	
	ATP100W	Unclaimed	Active	
	USG FLEX 700	Unclaimed	Active	
	USG310	Unclaimed	Active	
	USG40W	Unclaimed	Active	lm >
USG	USG110	Unclaimed	No License	
ATP_200_1	ATP200	Unclaimed	No License	
ATP_200_0	ATP200	Unclaimed	No License	
ATP100	ATP100	Unclaimed	No License	
	USG110	Unclaimed	No License	
H + Page 1	of 2 F H			10 💌 items per page

1 Click the hyperlink under **Unclaimed** to add Zyxel Devices to this organization. You will see details of Zyxel Devices that are available to be added.

Organization & Device	
Organization Device	
<b>~</b>	
Device Model USG FLEX 700	
MAC Address 20:20:04:17:09:22	
WAN IP Address	
Firmware Version	
Serial Number S202004170922	
SecuReporter License Status Active (77 Days Remaining	
Protection Policy Non-Anonymous	

- 2 You will see the Ficon on the right when you hover the mouse on the registered Zyxel Devices that have activated SecuReporter licenses. This icon will not appear for registered Zyxel Devices that do not have activated SecuReporter license.
- 3 Click the E icon to add the Zyxel Device into this organization. Enter an identifying name for this Zyxel Device in **Device Name** and an optional **Description**, and then click **Next**.

Step 1: Device Information			Step 2: Protection Policy
Please complete device informatior and description (optional). Belonged Organization	n by choosing an c	organization fo	r it and filling the device name
Choose an organization Device Name	•	Device Mo USG FLE MAC Addr 20:20:04:	del X 700 ess 17:09:22
Description		Serial Nun S202004	nber 170922

4 Read the data protection policy and then choose the level of data protection for traffic going through this Zyxel Device. Finally click **Save** to have the **Unclaimed** device become a **Claimed** device.

Step 1: Device Information	Step 2: Protection Policy
	ele bales seesse addesares
Please choose the level of anonymity you require for users aut	henticated by this Zyxel Device. Please
to the point of change will be deleted from SecuReporter.	ports and logs for this Zyxei Device up
O Fully Anonymous	
Personal data (user names, MAC addresses, email addresses and hose information in Analyzer, Reports, and downloaded Archive Logs. Data individuals.	st names) are replaced with anonymized a can no longer be traced back to all
Partially Anonymous (Recommended)	
Personal data (user names, MAC addresses, email addresses and hose identifiers in downloaded Archive Logs. Personal data can be removed	st names) are replaced with artificial ed from SecuReporter.
O Non-Anonymous	
Data (user names, MAC addresses, email addresses and host names, and downloaded Archive Logs. Personal data cannot be removed fro	) are clearly identifiable in Analyzer, Reports, m SecuReporter.
□ I agree with the protection policy.	

Note: You can change the level of data protection later, but all logs and reports created for the Zyxel Device up to that point will be lost.

To hide the user name or email address of an existing record set as Partially Anonymous.

### 6.2.2 Claimed Device

The hyperlink under **Claimed** device displays the Zyxel Devices that have been added to this organization. Click the edit 🔊 icon to change the settings including the **Protection Policy**.

Organization Device	-			
Device Name	Model	Device Status †	License Status 🕴	
	ATP200	Unclaimed	No License	
	ATP500	Unclaimed	No License	
	ATP700	Unclaimed	No License	
	USG110	Unclaimed	No License	
	USG FLEX 100	Unclaimed	No License	
1234	ATP100W	Claimed	No License	
USG110	USG110	Claimed	No License	
500	USG FLEX 500	Claimed	No License	
USG FLEX 100	USG FLEX 100	Claimed	Active	
ATP100W-mine	ATPIOOW	Claimed	Active	(A) = >

### 6.2.3 Generate API Token

An API (Application Programming Interface) token is a secret string that verifies a user's access to API resources, allowing one software application to share data with another.

You can generate an API token on SecuReporter to securely share the data on SecuReporter with a third-party software application.

#### **Overview of API Authorization**

The following figure shows the process of generating an API token and using it to grant a third-party software application access to SecuReporter data.

Figure 43 Overview of API Authorization



#### Generate an API token

To generate an API token, click More 💮 (upper right icon) > Organization & Device > Organization.

1 Click on the organization to which the Zyxel Device you want to share data with belongs.

			+ Add Organization
ame †	Owner	Device Number	
actssrflex700h	SVD-uOS GSBU	0	
actssrflex700h2	SVD-uOS GSBU	0	
SR V3 Test	SVD-uOS GSBU	0	
ACTS_uOS_Site222	SVD-uOS GSBU	2	
Annie_uOS	SVD-uOS GSBU	5	

2 Click the API Access On button next to the Zyxel Device you want to share data with. Make sure the Zyxel Device has a valid device license.

<b>)rganization</b> De	evice				
-					
vices Under Organ	ization "My Organizatio	20 <sup>m</sup>			
u see all organizations	that you have already cre	ated.			
Device Name	Device Model	MAC Address	Serial Number	License Status	
		00:11:22:33:44:55	S001122334455	100 Days Remaining	
DeviceA On	ATP200				
DeviceA <b>On</b> Device B	USG FLEX 100	33:44:55:66:77:88	\$334455667788	150 Days Remaining	API Access Or 🖋
Device A <b>O1</b> Device B Device C	ATP200 USG FLEX 100 USG110	33:44:55:66:77:88 88:99:00:11:22:33	S334455667788 S889900112233	150 Days Remaining 200 Days Remaining	API Access Or S

3 The following window pops up. Click Create New API Token to generate a secret string.

Create New API Token	
	Close

4 Click Copy API Token 🕒 to copy the API token and paste it into a third-party program to authorize access to SecuReporter data.

API Access	
API Token	Copy API Token
KTO2Tz1343Pgvo-mnia	. 0

#### Send the API Token to SecuReporter API

The API token acts as a secure way to authenticate your request. By sending the API token to the SecuReporter API, you verify that your request is coming from an authorized source. See page 106 to see what to do if your API request is rejected.

- 5 Store the token securely and test your API request to ensure that the API token and request setup are correct.
- 6 Send the API request from the third-party application to the SecuReporter API to verify authorization.

#### **Retrieve SecuReporter Data**

7 After your request is verified by the SecuReporter API, The SecuReporter data will be downloaded to your server.

## 6.3 User Account

To assign an administrator or user for organizations or Zyxel Devices within organizations that you created, click (More)  $\bigcirc$  (upper right icon) > **Members**.

1 Click Add Member.

Members			
			+ Add Member
Name	Email Address	Access Privileges	
liu daikuei	daikuei.liu@zyxel.com.tw	Admin	
brian2 tseng	brian705453@gmail.com	Admin	
H 4 Page 1	of1 > >		10 🔻 items per page

2 Enter the email address of the person that you want to be administrator in Member Email Address.

Add Member	
Member Email Address	
Member's access privilege for all organizations and devices	
○ Admin	
Exceptional Cases	+ Add Exceptional Case
No Exceptional Case	
	Cancel Add

You cannot change the email address later. You have to delete this user account and create a new one to create a different email address. Also, you cannot add your own email address.

- 3 Select this **Member's access privilege for all organizations and devices** for all new Zyxel Devices added to this organization after the user account was created.
  - Select **Admin** if you want this user to have full administration privileges for all new Zyxel Devices added to this organization after the user account was created.
  - Select **Member** if you want this user to have restricted administration privileges for all new Zyxel Devices added to this organization after the user account was created.
  - Select **None** if you do not want this user to see new Zyxel Devices added to this organization after the user account was created.

You may configure **Exceptional Cases** by clicking **Add Exceptional Case** for individual Zyxel Devices within this organization.

The administration privilege priority for exceptional cases field checking is as below:

- Device
- Organization
- Access Privilege for selected target

1ember Email Addres	SS	
lember's access privi	ilege for all organizations and d	evices
🔾 Admin 🛛 🖲 Mem	nber 🔾 None	
xceptional Cases		+ Add Exceptional Case
exceptional Cases	Device	+ Add Exceptional Case
Exceptional Cases Organization Zyxel	Device	+ Add Exceptional Case Access Privilege for selected target  Admin  T

Note: See Table 3 on page 7 for details on management privileges.

4 Click Add when finished.

# CHAPTER 7 Troubleshooting

This chapter offers some suggestions to solve problems you might encounter.

I cannot access the SecuReporter portal.

- Check that you are using the correct URL: https://secureporter.cloudcnm.zyxel.com
- Make sure your computer's Ethernet card is installed and functioning properly.
- Check that you have Internet access. Open **Command Prompt** on your computer, enter 'ping' followed by a website such as 'zyxel.com'. If you get a reply try to ping 'secureporter.cloudcnm.zyxel.com'.
- Use a browser that supports HTML5, such as Google Chrome, Mozilla Firefox, Safari, or Microsoft Edge. The recommended minimum screen resolution is 1366 by 768 pixels. In order to use SecuReporter you need to allow web browser pop-up windows from your computer.

#### I cannot log into the SecuReporter portal.

• Open your web browser and go to *https://secureporter.cloudcnm.zyxel.com*. Sign in with the correct email and password. Click **Create an account** if you do not have a Zyxel Account to sign up.

There is no data shown at SecuReporter.

- Make sure your Zyxel Device supports SecuReporter. See Section 1.1.1 on page 6 for the supported Zyxel Devices.
- Make sure the firmware version of your Zyxel Device supports SecuReporter. See Section 1.1.1 on page 6 for the supported firmware versions.
- Make sure you activated the SecuReporter license at myZyxel. See Section 1.2 on page 8 for more information.
- Make sure your license is not expired. See the User's Guide of the supported Zyxel Device for how to check your license status.
- Make sure you enabled SecuReporter on your Zyxel Device. See the User's Guide of the supported Zyxel Device for how to enable and activate SecuReporter.
- Make sure you selected the categories that you want your Zyxel Device to send to the SecuReporter portal. See the User's Guide of the supported Zyxel Device for instructions.
- Make sure you added your Zyxel Device to an organization. See Section 6.2 on page 94 or the User's Guide of the supported Zyxel Device for instructions.

SecuReporter does not show the sandboxing screens.

Make sure that your Zyxel Device supports sandboxing. See Table 2 on page 7 for the Zyxel Devices that support sandboxing.

Some files types cannot be inspected through sandboxing.

Sandbox can only check the types of files listed under **File Submission Options** in the **Sandboxing** screen of the Zyxel Device. See the User's Guide of the Zyxel Device that supports sandboxing for instructions.

I want to prevent malicious code from passing through my web browser, therefore allowing cyber criminals to run malicious code on my computer.

- 1 Upgrade your web browser to the latest version.
- 2 Make sure you enable URL Blocking under Configuration > Security Service > Reputation Filter > URL Threat Filter > General on your Zyxel Device's Web Configurator. See the User's Guide of the Zyxel Device that supports URL Threat Filter for instructions.

My Top Type and Top Threat Website charts are not showing any data.

Make sure you enable URL Blocking under Configuration > Security Service > Reputation Filter > URL Threat Filter > General on your Zyxel Device's Web Configurator. See the User's Guide of the Zyxel Device that supports URL Threat Filter for instructions.

IP Reputation does not work on IPv6 addresses.

At the time of writing, IP Reputation is only for IPv4 addresses.

My Top Type and Top Risk IP charts are not showing any data.

Make sure you enable **IP Blocking** under **Configuration** > **Security Service** > **Reputation Filter** > **IP Reputation** > **General** on your Zyxel Device's Web Configurator. See the User's Guide of the Zyxel Device that supports URL Threat Filter for instructions. I cannot add my Zyxel Device to an organization.

Only an owner can add Zyxel Devices to an organization. See Section 1.1.2 on page 7 for the privileges of different role types.

Some fields cannot be used as filters for search log.

For Partially Anonymous users, search log for some of the fields are disabled.

I get a Number of logs in query exceeded the maximum limit warning.

A maximum of 10,000 search results are only allowed at a time. Add filters to narrow down the search log criteria.

I want to use a wildcard when entering the filter criteria for a field in search log.

Upon clicking **Y** > **Add Rule** > **Please Select**, the word **contains** should appear after the name of the field, not '='.

I failed to retrieve SecuReporter logs through API in a third-party software application.

- Check API token: Ensure that the API token is correct and has not expired. If needed, generate a new token and try again.
- Check API request format: Review the API request for any errors or formatting issues. Refer to https://www.zyxel.com/global/en/products/management-and-reporting/management-and-reporting-cloud-cnm-secureporter/open-api for more information on API request format.
- Verify license status: Ensure that the Zyxel device's license is valid.

## 7.1 Getting More Troubleshooting Help

Search for support information for your model at www.zyxel.com for more troubleshooting suggestions.

# APPENDIX A Customer Support

In the event of problems that cannot be solved by using this manual, you should contact your vendor. If you cannot contact your vendor, then contact a Zyxel office for the region in which you bought the device.

For Zyxel Communication offices, see *https://service-provider.zyxel.com/global/en/contact-us* for the latest information.

For Zyxel Network offices, see *https://www.zyxel.com/index.shtml* for the latest information.

Please have the following information ready when you contact an office.

#### **Required Information**

- Product model and serial number.
- Warranty Information.
- Date that you received your device.
- Brief description of the problem and the steps you took to solve it.

#### Corporate Headquarters (Worldwide)

#### Taiwan

- Zyxel Communications (Taiwan) Co., Ltd.
- https://www.zyxel.com

#### Asia

#### China

- Zyxel Communications Corporation-China Office
- https://www.zyxel.com/cn/sc

#### India

- Zyxel Communications Corporation-India Office
- https://www.zyxel.com/in/en-in

#### Kazakhstan

- Zyxel Kazakhstan
- https://www.zyxel.com/ru/ru

#### Korea

- Zyxel Korea Co., Ltd.
- http://www.zyxel.kr/

#### Malaysia

- Zyxel Communications Corp.
- https://www.zyxel.com/global/en

#### Philippines

- Zyxel Communications Corp.
- https://www.zyxel.com/global/en

#### Singapore

- Zyxel Communications Corp.
- https://www.zyxel.com/global/en

#### Taiwan

- Zyxel Communications (Taiwan) Co., Ltd.
- https://www.zyxel.com/tw/zh

#### Thailand

- Zyxel Thailand Co., Ltd.
- https://www.zyxel.com/th/th

#### Vietnam

- Zyxel Communications Corporation-Vietnam Office
- https://www.zyxel.com/vn/vi

#### Europe

#### Belarus

- Zyxel Communications Corp.
- https://www.zyxel.com/ru/ru

#### Belgium (Netherlands)

- Zyxel Benelux
- https://www.zyxel.com/nl/nl
- https://www.zyxel.com/fr/fr

#### Bulgaria

• Zyxel Bulgaria
https://www.zyxel.com/bg/bg

## **Czech Republic**

- Zyxel Communications Czech s.r.o.
- https://www.zyxel.com/cz/cs

### Denmark

- Zyxel Communications A/S
- https://www.zyxel.com/dk/da

## Finland

- Zyxel Communications
- https://www.zyxel.com/fi/fi

## France

- Zyxel France
- https://www.zyxel.com/fr/fr

## Germany

- Zyxel Deutschland GmbH.
- https://www.zyxel.com/de/de

## Hungary

- Zyxel Hungary & SEE
- https://www.zyxel.com/hu/hu

## Italy

- Zyxel Communications Italy S.r.l.
- https://www.zyxel.com/it/it

## Norway

- Zyxel Communications A/S
- https://www.zyxel.com/no/no

## Poland

- Zyxel Communications Poland
- https://www.zyxel.com/pl/pl

## Romania

- Zyxel Romania
- https://www.zyxel.com/ro/ro

## **Russian Federation**

- Zyxel Communications Corp.
- https://www.zyxel.com/ru/ru

#### Slovakia

- Zyxel Slovakia
- https://www.zyxel.com/sk/sk

## Spain

- Zyxel Iberia
- https://www.zyxel.com/es/es

#### Sweden

- Zyxel Communications A/S
- https://www.zyxel.com/se/sv

## Switzerland

- Studerus AG
- https://www.zyxel.com/ch/de-ch
- https://www.zyxel.com/fr/fr

## Turkey

- Zyxel Turkey A.S.
- https://www.zyxel.com/tr/tr

#### UK

- Zyxel Communications UK Ltd.
- https://www.zyxel.com/uk/en-gb

#### Ukraine

- Zyxel Ukraine
- https://www.zyxel.com/ua/uk-ua

## South America

#### Argentina

- Zyxel Communications Corp.
- https://www.zyxel.com/co/es-co

## Brazil

• Zyxel Communications Brasil Ltda.

https://www.zyxel.com/br/pt

## Colombia

- Zyxel Communications Corp.
- https://www.zyxel.com/co/es-co

## Ecuador

- Zyxel Communications Corp.
- https://www.zyxel.com/co/es-co

## South America

- Zyxel Communications Corp.
- https://www.zyxel.com/co/es-co

# Middle East

## Israel

- Zyxel Communications Corp.
- https://il.zyxel.com

# North America

## USA

- Zyxel Communications, Inc. North America Headquarters
- https://www.zyxel.com/us/en-us

# **APPENDIX B** Legal Information

#### Copyright

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#### **Viewing Certifications**

Go to *https://www.zyxel.com* to view this product's documentation and certifications.

#### **Zyxel Limited Warranty**

Zyxel warrants to the original end user (purchaser) that this product is free from any defects in material or workmanship for a specific period (the Warranty Period) from the date of purchase. The Warranty Period varies by region. Check with your vendor and/or the authorized Zyxel local distributor for details about the Warranty Period of this product. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, Zyxel will, at its discretion, repair or replace the defective products or components without charge for either parts or labor, and to whatever extent it shall deem necessary to restore the product of equal or higher value, and will be solely at the discretion of Zyxel. This warranty shall not apply if the product has been modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions.

#### Note

Repair or replacement, as provided under this warranty, is the exclusive remedy of the purchaser. This warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular use or purpose. Zyxel shall in no event be held liable for indirect or consequential damages of any kind to the purchaser.

To obtain the services of this warranty, contact your vendor. You may also refer to the warranty policy for the region in which you bought the device at *https://www.zyxel.com/global/en/support/warranty-information*.

#### **Open Source Licenses**

This product may contain in part some free software distributed under GPL license terms and/or GPL-like licenses. To request the source code covered under these licenses, please go to: https://www.zyxel.com/form/gpl\_oss\_software\_notice.shtml.

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