

# **Endpoint Protector** User Manual

Version: 5.9.3.0

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The latest Endpoint Protector Functional release new features and enhancements, please refer to the Release History section:

https://www.endpointprotector.com/support/endpoint-protector-release-history

# 2. About this guide

# 2.1. Scope

This document describes how to set up and configure Endpoint Protector. It provides instructions to complete first-time system deployment, including planning the network topology, and ongoing maintenance.

It also describes how to use the Endpoint Protector user interface and details the lists of default utilized port numbers, configuration limits, and supported standards.

# 2.2. Intended Audience

This document is intended for system administrators, not end users.

Contact your system administrator if you are accessing a device protected by Endpoint Protector and have any questions that are not covered by this guide.



Portable storage devices such as USB flash drives, external HDDs, digital cameras, MP3 players and iPods are virtually everywhere and are connected to a Windows, Mac, or Linux computer within seconds. With virtually every computer having internet access applications and collaboration tools, data theft or accidental data loss becomes a mere child's play.

Data loss and data theft through a simple internet connection or USB device is easy and does not take more than a few seconds. Network Administrators had little chance to prevent this from happening or to identify the responsible users. This was the hard reality until now.

Endpoint Protector, through its Device Control, Content Aware Protection, eDiscovery, and Enforced Encryption modules, helps companies stop these threats. It not only controls all device activity at the endpoint but monitors and scans all possible exit points for sensitive content detection. It ensures critical business data does not leave the internal network either by being copied on devices or sent via the Internet without authorization, reporting all sensitive data incidents. Moreover, data at rest residing on endpoints can be inspected for sensitive content, and remediation actions can be taken. Additionally, enforcing encryption on USB removable devices is also possible. Everything from a single web-based interface.

Endpoint Protector is a complete Data Loss Prevention and the DLP-related features and functionality will be explained below. For detailed information about the Endpoint Protector Server deployment, refer to the <u>Virtual and Hardware Appliance User Manual</u>.

# 3.1. Main components

Endpoint Protector is designed around several physical entities:

- **Computers** the Windows, Mac, and Linux workstations that have the Endpoint Protector Client installed
- **Devices** the devices that are currently supported by Endpoint Protector (USB devices, digital photo cameras, USB memory cards, etc.)
- **Users** the users who will be handling the devices and the computers

The Server side of Endpoint Protector has different parts, working close together:

- Endpoint Protector Hardware or Virtual Appliance containing Operating System, Database, etc.
- Web Service communicating with the Endpoint Protector Clients and storing the information received from them
- Endpoint Protector User Interface managing the existing devices, computers, users, groups, and their behavior in the entire system



# 4. Server Functionality

Once the Endpoint Protector Hardware or Virtual Appliance setup is complete, access the User Interface from the assigned IP address.

The default Endpoint Protector Appliance IP address is https://192.168.0.201

**Note:** Always use the IP address with HTTPS (Hypertext Transfer Protocol Secure).

Use the default login credentials for the root account and contact <u>Support</u> to provide the password.

For detailed information on settings change or creating additional administrators, refer to the <u>System Administrators</u>



# 4.1. Endpoint Protector Configuration Wizard

The Configuration Wizard provides you with several steps to define basic settings. These include setting up the Server Time Zone, importing Licenses, Server Update or uploading

Offline Patches, Global device rights, E-mail Server settings, Main Administrator details, etc. You can change these settings at any time.

The Configuration Wizard is available only if the basic settings for the Endpoint Protector have never been configured.

As an additional security measure, a session timeout is implemented for 300 seconds (5 minutes) of inactivity. If you are not active for this amount of time, you are notified the session will expire and logged out unless you select to continue the session.

**Note**: You can customize the session timeout and timeout counter from the <u>Session Settings</u> sections.

1	Dashboard	« Endpoint Protector	Appliance Configuration				
	Device Control		2	3	(4)	5	6
	Content Aware Protection	Next					
	eDiscovery			Welcome to Endpoint	Protector Appliance Configuration!		
	Denylists and Allowlists	Please finalize the configuration by defi	ining the essential settings and default device contr	ol policies (Global Settings and Global	Rights)		
0	Enforced Encryption				Time Zone		
	Offline Temporary Password	Please select your timezone	Europe 🗸 Bu	charest 🗸			
	Reports and Analysis						skip this step now - remind me later
	Alerts	INEXL					
Ø	Directory Services						
	Appliance						
Yi	System Maintenance						
Ø	System Configuration						
	System Parameters						
٥	Support						

# 4.2. General Dashboard

In this section, you can view general information as graphics and charts related to the most important activities logged by Endpoint Protector.

You will view more specific dashboards on the Device Control, Content Aware Protection and eDiscovery sections.



# 4.3. System Status

In this section you can view general information of the system's functionality, alerts, and backup status.

1	Dashboard	« 🗐 System Status			
General Dashboard System Status		System Functionality			
	Live Update Effective Rights	Currently all clients are protected by EPP. Click to turn EPP protection off.	On		
	Device Control	Currently device control policies are enforced at all endpoints. Click to lockdown all endpoints on clients' side.	On		
P	Content Aware Protection	Currently all set Content Aware Policies are enforced. Click to disable all content filters.	On		
	eDiscovery	Currently all set eDiscovery Policies are enforced. Click to disable all content filters.	On		
	Denylists and Allowlists				
0	Enforced Encryption	Re-read rights and settings for all computers	Re-read		
	Offline Temporary Password	Re-read client devices for all computers	Re-read		
2	Reports and Analysis	System Status			
	Alerts	HDD Disk Space - Safety Logs Rotation. Click to enable Log Rotation.	or		
	Directory Services				
	Appliance	System Alerts			
Yi	System Maintenance	Update and Support - Click to disable Update and Support Alert.	On		
0	System Configuration	Password Expiration - Click to disable Password Expiration Alert.	On		
	System Parameters	System Backup			
	Support				
		Click to enable System Backup.	Of		

From the **System Functionality** section, you can enable Endpoint Protector, as well as just specific modules (Device Control, Content Aware Protection, or eDiscovery).

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System Functionality	
Currently all clients are protected by EPP. Click to turn EPP protection off.	On
Currently device control policies are enforced at all endpoints. Click to lockdown all endpoints on clients' side.	On
Currently all set Content Aware Policies are enforced. Click to disable all content filters.	On
Currently all set eDiscovery Policies are enforced. Click to disable all content filters.	On
Re-read rights and settings for all computers	Re-read
Re-read client devices for all computers	Re-read

From the System Status subsection, you can enable the HDD Disk Space and Log Rotation.

**Note**: If this setting is enabled, when the Server's disk space reaches a certain percentage (starting from 50% up to 90%), old logs will be automatically overwritten by the new ones.

System Status	
HDD Disk Space - Safety Logs Rotation. Click to enable Log Rotation.	Off

From the **System Alerts** subsection, you can enable important alerts notifying the expiration of the APNS Certificate, Updates, and Support or Passwords.

System Alerts	
Update and Support - Click to disable Update and Support Alert.	On
Password Expiration - Click to disable Password Expiration Alert.	On

From the **System Backup** subsection, you can enable the **System Backup**.

System Backup	
Click to enable System Backup.	Off

# 4.4. Live Update

From this section, you can check and apply the latest security and Endpoint Protector Server updates.

**Note:** This feature communicates through port 80. Whitelist the liveupdate.endpointprotector.com (IP: 178.63.3.86) domain.

1	Dashboard	« Endpoint Protector Server - Live Update
	General Dashboard System Status <u>Live Update</u> Effective Rights	Important Notice Endpoint Protector is required to connect now over HTTP's to www.endpoint.protector.com to receive information. If you do not agree with an Internet connection, you can choose not to proceed.
Ö	Device Control	
P	Content Aware Protection	Software Update
	eDiscovery	Most recent check for updates:     25 Jan 2023 15:35:30       Updates were installed:     25 Jan 2023 15:30:29
	Denylists and Allowlists	Configure Live Update Offline Patch Uploader
0	Enforced Encryption	Security Updates
	Offline Temporary Password	🗋 Security 🗋 Updates 🗹 All Updates
2	Reports and Analysis	Most recent check for updates: 2023-01-31 13:26:23 Updates were installed:
	Alerts	Check Updates Apply Updates
Ø	Directory Services	Available Updates
	Appliance	· · · · · · · · · · · · · · · · · · ·
Yi	System Maintenance	No updates available!
٢	System Configuration	View Applied Updates Apply all updates
E	System Parameters	

# 4.4.1. Software Update

Software Update		
Most recent check for updates:	31 Jar	n 2023 14:08:39
Updates were installed:	25 Jar	2023 15:30:29
Configure Live Update	Check Now	Offline Patch Uploader

Click **Configure Live Update** to select manual or automatic live updates check, the number of retries, and manage the Automatic Reporting to the LiveUpdate Server.

Live Update Settings	
Check Automatically for Updates:	0
Check Manually for Updates:	۲
Max retries:	5
Live Update Reporting	
*Note: Endpoint Protector Server will re	port each night the current system status to our Live Update Server
Enable Automatic Report:	۲
Disable Automatic Report:	0
Save	- Back

Click **Check Now** to search for the Endpoint Protector Server updates displayed in the **Available Updates** section. You can select and install an update with **Apply Updates**, or all updates with **Apply all updates**. To view the latest installed updates, click **View Applied Updates**.

You can also schedule an update. Select an entry from the available updates, click **Schedule update** and then use the calendar to select the date and confirm your selection.

able Updates	
Product Update - User Remediation implemented for Device Control, Threat threshold for Content Detection Rule, Reporting v2, Client Fability enhancements and fixes. (Hay 2022) (HWA-EPP4-U0053)	Registration Certificate and other
User Remediation is now available for Device Control with the option to create custom notifications. Implemented Client Registration Certificate, Reporting thresholds defined for Content Detection Rule. Enhancements include SIEM integrations, a size customizable Endpoint Protector client, extended 8-digit de	Version 2.0 and individual threat vice codes, and more PIIs added.
Remarks: Applies to version: 5.5.0.0	,
	Schedule update

Use the **Offline Patch Uploader** option to select the offline patches from your computer and successively install them to the latest Endpoint Protector version.

Note: Contact <a href="mailto:support@endpointprotector.com">support@endpointprotector.com</a> to request the Offline Patch.

Offline Patch Uploader	
Browse for the offline patch file:	Choose File No file chosen
Upload Patch	
Back	

**Important**: Before upgrading your Endpoint Protector server to the 5.7.0.0 server version from a pre-5206 version and adjacent OS image, you need to enable database partitions. Please contact **Support** for assistance.

#### 4.4.2. Security Updates

You can use this section to check and apply different types of security updates, view information on recent updates checked or installed, and a list of updates available.

**Note**: The security update options will only be available for customer-hosted instances (e.g. AWS, Goggle, etc.) with the exception for Operating System and Kernel upgrades.

**Important**: Updates are not tested beforehand but are pulled from the official Linux repository.

To ensure the updates will not harm the system, follow these actions:

- test the updates in a test environment first
- make a VM snapshot
- make a system backup from the System Maintenance, the System Backup v2 section

Select one of the security updates type available and then click **Check Updates**:

- Security this will update all security-related updates of installed packages (Critical and High)
- **Other** this will download and apply any update available to 3rd party libraries, kernel, OS packages and MySQL database
- All Updates this will download and apply Informational and Optional/Unclassified updates

If there are updates available, click Apply Updates.

Backend Security Updates
Changes have been saved!
Security Other All Updates Most recent check for updates:
Updates were installed:
*Note: For history of applied Backend Updates go to admin action report and choose "Apply Updates" under Activity filter.
Check Backend Updates Apply All Backend Updates

**Note:** For history of applied Backend Updates go to admin action report and choose "Apply Updates" under Activity filter.

**Important:** Due to patching nature, some updates may automatically restart the Endpoint Protector server or other sub-services in the background

# 4.5. Effective Rights

In this section you can view currently applied Device Control or Content Aware Protection policies. Based on the options you select from the **Effective Rights Criteria** form, you can view information based on rights, users, computers, device types, specific devices, report type (PDF or XLS), including Outside Hours and Outside Network Policies, and more.

Once the report is generated, from the Actions column, you can download or delete it.



From this section, you can manage all entities in the system, their subsequent rights, and settings. You can also manage other types of settings from the Device Control section such as Endpoint Protector Client and Deep Packet Inspection settings. As the first layer of security within Endpoint Protector, it is activated by default in every configuration provided.

# 5.1. Dashboard

This section offers a quick overview in the form of graphics and charts related to the Endpoint Protector Entities. You can select the start and end date for the data used in these visual representations from the top-right calendars and view the data in real time.

🕥 Dashboard	« Device Control - Dashboard		2022-12-09 2023-02-09
Device Control			
Dashboard Devices	Exit Points		Latest Connected Devices
Computers Usars Groups Global Rights Global Settings Qustom Classes	10 9 8 7 6 5 4		USB Storage Device
Content Aware Protection	3 2		Bluetoch
eDiscovery	1 0 2022.12.09 2022.12.11 2022.12.12	2002.12.15 2002.12.17 2002.02.00	Webcam
Denylists and Allowlists	2022-12-09 2022-12-11 2022-12-13	2022-12-15 2022-12-17 2023-02-09	
Enforced Encryption	USB Storage Device		
Offline Temporary Password			
Reports and Analysis	Devices in the System	Most Active Users	File Transfers
Alerts	100	400	200
Directory Services			
园 Appliance	50	200	100
System Maintenance			
System Configuration	0	0	0

# 5.2. Devices

From this section, you can view, sort, and export in Excel, PDF or CSV format any devices from the system. Use the **Actions** column to edit, manage rights, view device history and delete a specific device.

You can view the right for each device based on the color code from the Status column:

- Red indicates the device is blocked in the system
- Green indicates the device is allowed on computers or for users

• Yellow indicates the device is allowed for some users or computers with restrictions

**Note**: Any new device connected to a protected computer is automatically added to the database and assigned to its first user which can be changed later.

0	Dashboard	×۵	Device Control	Devices									
	Device Control	List	of Devices										^
	Dashboard <u>Devices</u> Computers Users Groups	- Fi	ters v Select all entries										
	Global Rights Global Settings	Sh	ow 10 🗸 entries						Excel PD	F CSV	Show/Hide Co	umns	Reload
ബ	Custom Classes		Device Name	Device Type	Description	VID (	PID (	Serial Number	Device     Code	Last User	Last Computer	Last Seen \$	Actions
	eDiscovery		410,00,00	UR Trop Trop	1011.02.00000	194	•	A-0-04000-027	11160	THE OWNER OF	******	indenie M Maria M	:=
	Denylists and Allowlists		ADD DRIVE DRIVEN	identi () Alternation	uterio della contrata				801	Market Market M		nan n. 19 19 an an	:=
	Enforced Encryption Offline Temporary Password		No. No. No. Tring and the communities Complete Read	NAT Rosan Natari Natari	ternalise segues to second the terpart restriction		un.	a montana d	-	100anas	1940 - 18-18-	2020-02- 00 01-02-01	:=
	Reports and Analysis Alerts		Automatic States	Terrori Terrori	No. of Concession, Name	4						NUCLEU NUCLEU	:=
	Directory Services		Radial Inc.	-	Restored Station				-			940-10- 10 10-4-0	:=
	Appliance		Electrolit Derice (Participa Sala) (Industri)	Via Nelson	Rodon Caroo Patora Inte Nation (Marinet					10000	100.00	DED-ID- IM NOR DE	:=
0 0	System Maintenance System Configuration		Conversion Int.	termine .	Consoliation Parl International Social Service			Internet (Artist (Constantion of the Artist	<b>W</b> 4.	NUMBER OF		242-4- 14 14 4 51	:=
_				100								Sec. at	

Click **Create** to manually add a new device on the list by providing device information: name, friendly name, type PID, department, description, friendly description, VID, serial number and custom class.

Use **Choose action** to export list of devices, schedule a list export, export or import in JSON format or refresh the device codes.

The Export/Import Devices in JSON format feature allows you to manage device lists from one Endpoint Protector Server to another and aims to correlate the device rights and the Groups.

- If the same Groups exist on both Servers, the imported devices will also maintain the access rights
- If the Groups do not exist, the devices will still be imported but the access rights will be ignored

You can also import the devices directly from Active Directory.

Note: For detailed information on Active Directory, refer to the Directory Services chapter.

#### 5.2.1. Priority order

If you do not configure the devices, the rights are inherited from the default Global Rights that are set per Device Types (USB Storage Device, Digital Camera, iPod, Thunderbolt, Chip Card Device, etc.).

Note: For detailed information, refer to the **Device Types** chapter.

If you configure device rights granularly for all entities, the priority order will be the following, starting with the highest:



**Example**: If global rights indicate that no computer on the system has access to a specific device, and for one computer that device has been authorized, then that computer will have access to that device.

#### 5.2.2. Device Rights

To manage device rights for specific computers, groups, or users, select **Manage Rights** from the **Actions** column.

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1	Dashboard	« Endpoint Protector	- Effective Rights										
	General Dashboard System Status Live Update	Currently the system is using both or	omputer and user rights, comp	uter rights hav	ve priority.								×
	Effective Rights	Effective Rights Criteria											^
	Device Control	Effective Rights can be generate	d globally as well as for a sing	ie device, com	puter or user. Depending on the nu	nber of entities, generating Effective	Rights globally ca	n take up to severa	I minutes.				
	Content Aware Protection												
	eDiscovery	Effective Rights for:	Device Control		*			Effective Right	s Format:	XLS		Ÿ	
	Denylists and Allowlists	Outside Hours Policies:	Do not include		•			Outside Netwo	rk Policies:	Do not include		*	
0	Enforced Encryption	Computer:	Al		Ŧ			User:		All		*	
	Offline Temporary Password	Device Type:	Al		*			Specific Device	e L	All		Ŧ	
	Reports and Analysis	Right:	All		¥								
		Generate											
	Alerts	Effective Rights List											^
	Directory Services												
	Appliance	Filters *											
٧i	System Maintenance	Show 10 🗸 entries								Excel PDF CS	/ Show/Hide	Columns Relo	bood
٢	System Configuration	Section	0 Computer	0 User	Device Type	0 Device	0 Right	Policy	0 Created at	y Status	0 Format	0 Actions	
=	System Parameters	Device Control	QA MacBook Pro	qa	USB Storage Device	DATATRAVELER_3.0	All	N/A	2021-02-26 08:20:52	Ready to download	pdf	:=	
	Support	Content Aware Protection	QA MacBook Pro	qa	N/A	N/A	N/A	All	2021-02-26 08:20:23	Ready to download	pdf	:=	
		Content Aware Protection	QA MacBook Pro	All	N/A	N/A	N/A	All	2021-02-26 08:20:08	Ready to download	pdf	:=	
		Device Control	QA MacBook Pro	All	AI	All	All	N/A	2021-02-26 08:19:57	Ready to download	pdf	:=	
		Device Control	QA MacBook Pro	All	AI	All	All	N/A	2021-02-26 08:19:51	Ready to download	xis	:=	
		Showing 1 to 5 of 5 entries										Previous 1	Next
	Dashboard	« Device Contr	ol - Device Right	s - DAT/	ATRAVELER_3.0								
	Device Control												
	Dashboard	Currently the system is usi	ng both computer and user	ngnis, comp	outer rights have phonicy.								×
	Devices Computers	Device Rights											~
	Users												_
	Groups Global Rights	Show 10 🗸 entries								Excel PDF CSV	Show/Hide Colur	nns Reload	
	Global Settings												
	File Allowlist Custom Classes	Right 🔶 S	et On Computer		Set On User	y Set On Grou	р	0 Mod	ified at	Modified by	0 Acti	ons	
5						No matchir	g records found						
	Content Aware Protection	Showing 0 to 0 of 0 entries	5									Previous No	lext
	eDiscovery	Add											
	Denylists and Allowlists												
	Fafarand Francellan	Device Wizard (S	tep 1/2)										^
<u> </u>	Enforced Encryption	Entity:	Comput	er		•							
	Offline Temporary Password	Device Right-	Deny A	riess									
	Reports and Analysis	bence regin:											
		Next											
	Alerts												
0	Directory Services												
	Appliance												
-	Surton Maintananco												
	System Maintenance												
٢	System Configuration												
E	System Parameters												

After selecting a device, assigning rights to specific users, computers or groups then follow these steps:

#### 1. Select the Entity and the Device right

Device Wizard (Step 1/2)		
Entity:	Computer *	
Device Right:	Allow Access 🖌 🗸	
	Use File Allowlist	
Next		

2. Select the Entities (Computers, Groups, or Users)

Computer Name	Description	Main IP	IP List	MAC Address	Workgroup	Right	Q
VIRGINIA_PC	n/a					WORKGROUP	
TONY-PC	n/a					WORKGROUP	
OANA-PC	n/a					WORKGROUP	
DESKTOP-83A31H7	n/a					WORKGROUP	
ub-macbookpro	n/a				intern.cososys.com		
Nicoleta's MacBook Pro	n/a					WORKGROUP	
MacBookAir	n/a					WORKGROUP	
TestQA MacBook Pro	n/a					WORKGROUP	
RAUL-PC	n/a					WORKGROUP	
CRISTI-NOTEBOOK	n/a					WORKGROUP	

#### 5.2.3. Device History

From this section, you can view the device history by selecting the View Device History action. This will display the Logs Report page filtered for the respective device.

9	Dashboard	« Report	s and Analysis - Log	Report					
Ø	Device Control	Logs Repo	rt						^
P	Content Aware Protection	Eilters A							
	eDiscovery	Theory H							
	Denylists and Allowlists	Event:	Malo TP				Computer:	Computer Domain Name	
0	Enforced Encryption	Hamame:	Username				Denice Type:	Any	~
	Offline Temporary Password	Device:	Cruzer Gli	ie .			VID:	VID	
~	Reports and Analysis	PID:	PID				Serial Number:	Serial Number	
	Logs Report	OS Type:	Any		~				
	File Shadowing	Date/Time(Se	Time(Server) From:   Date/Time(Server) To:			Date/Time(Server) To:		M	
	Content Aware Report Content Aware File Shadowing	Date/Time(C	lient) From:	Dute/Time(Client) To:			Date/Time(Client) To:		10
	Admin Actions Online Computers	App	oly Reset						
	Online Users Online Devices								
	Statistics	Show 10	✓ entries					Excel PDF CSV Sho	w/Hide Columns Reload
	Alerts	Event	Computer	Username	Device Type	Device	Date/Time(Server)	Date/Time(Client)	Actions
ō	Directory Services	File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:12	2021-02-16 09:58:00	
	Appliance	File Write	QA MacBook Pro	qa qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:12	2021-02-16 09:58:01	
		File Copy	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2021-02-16 09:57:57	
<b>1</b>	System Maintenance	File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2021-02-16 09:57:58	
Ø	System Configuration	File Copy	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2021-02-16 09:57:57	
		File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2021-02-16 09:57:58	
	System Parameters	File Copy	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2021-02-16 09:57:58	
		File Write	OA MarRook Pro	0.9	LISR Storage Device	Courser Glide	2021-02-18 09-58-03	2021-02-16 00-57-58	

# 5.3. Computers

From this section, you can filter, create, uninstall or delete a computer and use the **Choose action** option to create a Settings Report, Export List of Computers and Schedule Export list.

You can download the Settings Report from **System Maintenance**, the **Exported Entities** section to view the Deep Packet Inspection status for each entity (Computer/User/Group) and the entity from which Deep Packet Inspection is used.

Any new computer that has the Endpoint Protector Client deployed will be automatically added to the database, thus making it manageable.

0	Dashboard	«目	Device Control	- Compute	ers											
1	Device Control	List	of Computers													^
	Dashboard															
	Devices Computers	- Fil	lters 🗸													
	Users		Select all entries													
	Global Rights															
	Global Settings	Sho	ow 10 V entries									E	Excel PDF CSV	Show/Hide	Columns	Reload
പ	Custom Classes		Computer	Username 🖕	Main IP	IP List	Domain 🖕	Groups	05	Rights $\phi$	Settings $\phi$	Last Seen	Client Versio	n 🖕 License	Status	Actions
	eDiscovery		10000,00-04	10110	10,064.03	100,000,000,000,000,000,000,000,000,000			Malace UPs (H300) (1884-1884)	-	044	10100	State-	Licensed	Offine	:=
	Denylists and Allowlists	Showin	ng 1 to 1 of 1 entries												Previous	1 Next
0	Enforced Encryption		Create	Uninstall	Choos	e action Delete										Back
	Offline Temporary Password															
	Reports and Analysis															
	Alerts															
6	Directory Services															
	Appliance															
Yi	System Maintenance	l														
ø	System Configuration															
	Curtom Doministom															

The Endpoint Protector Client has a self-registration mechanism. This process is run once after the Client software is installed on a client computer. The Client will then communicate to the Server its existence in the system. The Server will store the information regarding the Computer in the database and it will assign a License.

**Note**: The self-registration mechanism acts whenever a change in the Computer licensing module is made, and also each time the application Client is reinstalled. The owner of the computer is not saved in the process of self-registration.

For more details about Licensing, go to the System Licensing chapter.

A Computer is identified by the computer parameters (Main IP, IP List, MAC, Domain, Workgroup, Computer Serial Number or MachineUUID, OS version) but information like Name and Description is also essential.

By default, the computer is assigned to the first user that handles the computer. This can later be changed and is updated automatically based on whoever logs into the computer.

# **Note**: Computer MachineUUID may not be taken for Virtual Machines due to System Limitations.

You can manually create a new computer at any time by providing the computer parameters and information mentioned above or import computers from Active Directory.

For more details about Active Directory, go to the Directory Services chapter.

You can also assign the computers to the following for a better organization:

- Groups e.g., several computers within the same office
- **Department** an alternative organization to Groups

# 5.3.1. Computer Rights

You can manage computer rights from the **Actions** column for a specific computer by selecting **Manage Rights**. This section is built around the computers, allowing you to specify which Device Types and Specific Devices can be accessible.

🕥 Dashboard	«E Device Control - Computer Rights						
Device Control	Device Types						^
Devices <u>Computers</u> Users	$\bigcirc$ These are the device type rights that apply in general.						
Groups Global Rights		User Remediation			User Remediation		
Global Settings	Unknown Device	OFF	Preserve global setting 🗸 🗸	Serial ATA Controller	OFF	Preserve global setting	~
File Allowist Custom Classes	USB Storage Device	OFF	Deny Access 🗸	WP	OFF	Allow Access	~
	Internal CD or DVD RW		Read Only Access 🗸	Bluetooth 🗸	OFF	Deny Access	~
Content Aware Protection	Internal Card Reader	OFF	Preserve global setting 🗸 🗸	FireWire Bus	OFF	Preserve global setting	~
eDiscovery	Internal Floppy Drive	OFF	Preserve global setting 🗸 🗸	Serial Port	OFF	Preserve global setting	~
Denylists and Allowlists	Local Printers	OFF	Preserve global setting 🗸 🗸	PCMCIA Device	O OFF	Preserve global setting	~
 	Windows Portable Device (Media Transfer Protocol)	011	Preserve global setting 🗸 🗸	Card Reader Device (MTD)	017	Preserve global setting	~
Enforced Encryption	Digital Camera	OFF	Preserve global setting 🗸 🗸	Card Reader Device (SCSI)	OFF	Preserve global setting	~
Offline Temporary Password	BlackBerry	O OFF	Preserve global setting	ZIP Drive	OFF	Preserve global setting	~
Reports and Analysis	Mobile Phones (Sony Ericsson, etc.)	O OFF	Preserve global setting 🗸 🗸	Teensy Board	OFF	Preserve global setting	~
	SmartPhone (USB Sync)	OFF	Preserve global setting 🗸 🗸	Thunderbolt	OFF	Preserve global setting	~
Alerts	SmartPhone (Windows CE)	OFF	Preserve global setting 🗸 🗸	Network Share		Preserve global setting	~
Directory Services	SmartPhone (Symbian)	OFF	Preserve global setting 🗸 🗸	Infrared Dongle	OFF	Preserve global setting	~
	Webcam		Allow Access	Parallel Port (LPT)	OFF	Preserve global setting	~
	iPhone	OFF	Preserve global setting 🗸 🗸	Additional Keyboard	OFF	Preserve global setting	~
System Maintenance	iPad	OFF	Preserve global setting 🗸 🗸	USB Modern	OFF	Preserve global setting	~
System Configuration	iPod	O OFF	Preserve global setting 🗸 🗸	Chip Card Device	OFF	Preserve global setting	~
System Parameters	Save					Allow all devices Block all de	evices
🧑 Support							

The Standard device control rights include the Device Types and Already Existing Devices sections. These are generally the only device rights used.

In addition to the Standard device control rights, if enabled from the Global Settings, you can create fallback policies for Outside Network and Outside Hours circumstances.

For detailed information on Device Types and Specific Devices (Standard, Outside Network, and Outside Hours), refer to the <u>Device Types</u> chapter.

**Note:** Use Restore Global Rights to revert to a lower level of rights. Once enabled, all rights on that level will be set to preserve global settings and the system will use the next level of rights.

All Existing Devices that were added on that level will be deleted when the restore is used.

# 5.3.2. Computer Settings

This section allows you to edit the settings for each computer.

Defining custom settings for all computers is not necessary since a computer is perfectly capable of functioning correctly without any manual settings defined.

It will do this by either inheriting the settings from the group it belongs to or, if not possible, the global settings, which are mandatory and exist in the system with default values from installation.

Dashboard	« Device Control - Computer Sett	ings - QA Ma	cBook Pro				
Device Control	Endpoint Protector Client						^
Dashboard Devices <u>Computers</u> Users	Client Mode:	Normal	v	0	Notifier language:	English	. 0
Groups Global Rights	Policy Refresh interval (sec):	15		0	Log Size (MB):	1024	0
Global Settings File Allowist	Log Interval (min):	1		0	Shadow Size (MB):	102400	0
Custom Classes	Shadow Interval (min):	1		0	Min File Size for Shadowing (KB):	0	0
Content Aware Protection	Recovery Folder Retention Period (days):	3		0	Max File Size for Shadowing (KB):	10485760	0
eDiscovery					Devices Recovery Folder Max Size (MB):	5000	0
Denylists and Allowlists						-	
O Enforced Encryption	Custom client Norncabons:				user euleo información:		
Offline Temporary Password	Mandatory 01P Justincation:	OFF			Optical Character Recognition:	CEF	
Reports and Analysis	Deep Packet Inspection:	OCFF			Stop at Threat Threshold:	CFF	
Alerts	Extended source code detection:	() (AF					
Directory Services	Notifications Pop-up:						
E Appliance							
🔢 System Maintenance	Save						
System Configuration	File Tracing and Shadowing						^
5 System Parameters	File Tracing:		Removable Devices		Z Time Marbine	Network Share	
O Support	File Shadowing:	All	Removable Devices and Other	r	Content Aware Protection	E-mail Body 🚯	
	Exclude Extensions from Tracing:	e.g.: .mp3;.vc	b;.exe;	0	Exclude Extensions from Shadowing:	e.g.: .mp3;.vob;.exe;	0
	Exclude Extensions from Scanning:	e.g.: .mp3;.vc	ib;.exe;	0	Scan archive in archive:	4 times	- 8

#### 5.3.3. Computer History

From this section, you can view the computer history by selecting the View Computer History action. This will display the Logs Report page filtered for the respective computer.

Dashboard		×۵	Reports an	d Analysis	- Logs Repo	rt														
Device Control		Lo	gs Report																	^
Content Aware Prote	ction																			
eDiscovery			Filters A																	
Denvlists and Allowli	ete .	· ۱	Event:		Any		~			Computer:		QA MacBook Pro								
			Main IP:		Main IP					Domain Nam	e:	Domain Name								
Enforced Encryption			Username:		Username					Device Type:		Απγ				~				
Offline Temporary Pa	ssword		Device:		Device					VID:		VID								
Reports and Analysis			PID:		PID					Serial Numbr	MI	Serial Number								
Logs Report			OS Type:		Any		~													
File Tracing File Shadowing			Date/Time(Server) F	rom:						Date/Time(S	erver) To:									
Content Aware Report									Date/Time(Client) To:							-				
Content Aware File Shi Admin Actions	adowing		Date/Time(Client) From:		Gate Intercontraction															
Online Computers			Apply	Re	Reset															
Online Users																				
Online Devices Statistics		1	5how 10 🗸 entr	ries										Excel	PDF	CSV	Show,	/Hide Colur	nns	Reload
Alerts		Ev	ent	Computer	-	Username	Device	Туре	Device	0	Date/Time(Server		Date	/Time(Cl	lient)			0 Ac	tions	
Directory Services		FB	e Write	QA MacBook Pr	70	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:12		2021-	-02-16 09:	58:00					
Directory Services		Fil	e Write	QA MacBook Pr	ro	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:12		2021-	-02-16 09:	.58:01					
Appliance		Fil	e Write	QA MacBook Pr	0	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:12		2021-	-02-16 09:	.58:00			Ξ		
System Maintenance		Fil	e Copy	QA MacBook Pi	0	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:03		2021-	-02-16 09:	57:57					
System Configuration		F	e Write	QA MacBook Pi	0	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:03		2021-	-02-16 09:	57:58					
		F	e Copy	QA MacBook Pr	10	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:03		2021-	-02-16 09:	57:58					
System Parameters		Fil	e Copy	QA MacBook Pi	ro	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:03		2021-	-02-16 09:	57:58					
🦲 Support		Fil	e Write	QA MacBook Pr	0	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:03		2021-	-02-16 09:	57:58			E		
		Fil	e Write	QA MacBook Pr	ro	qa	USB St	orage Device	Cruzer Glide		2021-02-16 09:58:03		2021-	-02-16 09:	:57:59					
		Sho	wing 1 to 10 of 101	entries										Prev	lous	1 2	3	5	1	I Next

### 5.3.4. Terminal Servers and Thin Clients

The capability to control file transfers on RDP storage between Thin Clients and Windows Terminal Servers can be enforced through Endpoint Protector, as detailed below.

### 5.3.4.1. Initial Configuration

The process starts with the menu view from Device Control > Computers, namely the action to **Mark as Terminal Server** 

After you selected the computer in the system as a Terminal Server, "Yes" will be displayed for ease of identification, as seen below:

0	Dashboard	«目 [	Device Contr	ol - Comp	uters										
	Device Control	List	of Computers	s											^
	Dashboard Devices <u>Computers</u>	Filt	ters v												
	Groups	Sho	w 10 🗸 entries	5							Excel	PDF CSV	Show/Hide C	olumns	Reload
	Global Rights Global Settings File Allowlist		Computer Name	Username	Main IP	IP List	0 Domain 0	Groups	Rights 0	Settings	Last Seen	Client Version	License	Status (	Actions
	Custom Classes										16:07:39	(Windows)			:=
	Content Aware Protection										2021.02.20	ESTE.			:=
	eDiscovery														:=
	Denylists and Allowlists										2021-02-26	5.3.7.6 -			:=
0	Enforced Encryption														:=
	Offline Temporary Password		Photos and a second second								12:50:59	(Windows)			
	Reports and Analysis	U									2021-02-28	5.276-			
	Alerts														:=
	Directory Canifer														:=
	Analise of										2021-02-28	5.3.7.6 -			:=
	Appliance										12.50.59	(Windows)			:=
Yi	System Maintenance	Showin	g 1 to 10 of 54 entr	ries								Previous 1	2 3	4 5	6 Next
0	System Configuration														
	System Parameters		Create	Uninsta	ll Chox	Delete									Back
	Support														

**Note:** The computers that can be targeted by this action are strictly Windows Servers with Terminal Server roles properly configured

Make sure that there is at least one Terminal Server license available when the action Mark as Terminal Server is performed.

If the Terminal Server is successfully marked, a new device type will appear when choosing to Edit it under Device Control, Computers, Computer Rights.

The settings for the Terminal Server-specific Device Types are: Preserve Global Settings, Allow Access, Deny Access, and Read-Only Access.

Terminal Server Specific Device Types	
Thin Client Storage (RDP Storage)	Allow Access 🔹

An Allow Access right set to the RDP Storage device type will enable all users that connect to the Terminal Server by RDP to transfer files to and from their local disk volume or shared storage devices such as USBs.

By contrast, a Deny Access right set to the RDP Storage will not allow any user that connects to the Terminal Server by RDP to transfer files to and from their local disk volume or shared storage devices such as USBs.

**Note**: Enable **Use User Rights** in the settings bar from **System Configuration**, **System Settings**, **Endpoint Rights Functionality** for the rights policy to apply on user logins with user priority.

Secondly, the menu from Device Control > Users > Rights will present an additional device type for all the users in Endpoint Protector, namely Thin Client Storage (RDP Storage).

0	Dashboard	« Device Control - User Rights - 5H7vQgRmjc			
	Device Control Dashboard	Currently the system is using both computer and user rights, computer rights have priority.			×
	Devices Computers <u>Users</u>	Device Types			^
	Groups Global Rights Global Settings	$\bigodot$ These are the device type rights that apply in general.			
	File Allowist	Unknown Device	Preserve global setting	Serial ATA Controller	Preserve global setting
	Custom Cusses	USB Storage Device	Preserve global setting	<ul> <li>WiFi</li> </ul>	Preserve global setting
	Content Aware Protection	Internal CD or DVD RW	Preserve global setting	Bluetooth 🗸	Preserve global setting
	eDiscovery	Internal Card Reader	Preserve global setting	FireWire Bus	Preserve global setting
-	Denvlists and Allowlists	Internal Floppy Drive	Preserve global setting	Serial Port	Preserve global setting
		Local Printers	Preserve global setting	PCMCIA Device	Preserve global setting
0	Enforced Encryption	Network Printers	Preserve global setting	Card Reader Device (MTD)	Preserve global setting
	Offline Temporary Password	Windows Portable Device (Media Transfer Protocol)	Preserve global setting	<ul> <li>Card Reader Device (SCSI)</li> </ul>	Preserve global setting
		Digital Camera	Preserve global setting	ZIP Drive	Preserve global setting
	Reports and Analysis	BlackBerry	Preserve global setting	<ul> <li>Teensy Board</li> </ul>	Preserve global setting
	Alerts	Mobile Phones (Sony Ericsson, etc.)	Preserve global setting	Thunderbolt	Preserve global setting
	Directory Services	SmartPhone (USB Sync)	Preserve global setting	Network Share	Preserve global setting
		SmartPhone (Windows CE)	Preserve global setting	Infrared Dongle	Preserve global setting
	Appliance	SmartPhone (Symbian)	Preserve global setting	Parallel Port (LPT)	Preserve global setting
81	System Maintenance	Webcam	Preserve global setting	Thin Client Storage (RDP Storage)	Preserve global setting
Ø	System Configuration	iPhone	Preserve global setting	Additional Keyboard	Preserve global setting
		iPad	Preserve global setting	USB Modem	Preserve global setting 💙
	system Parameters	IPod	Preserve global setting	Android Smartphone (Media Transfer Protocol)	Preserve global setting
	Support			Chip Card Device	Preserve global setting
		Save			Allow all devices Block all devices

Multiple users can be recognized as active users on any given Terminal Server, and so, the setting of this right can be used as a powerful tool to create access policies for specific users, as detailed in the use case below.

	192.168.0.149	Default Department	Administrator 00-25-90-d5-50-32 noticer 14-May-2015 18:21 4.4:2.9 - (PC)  more (1)	Licensed 13-May-2015 17:43:06 root	ThinGroup 🗸	<mark>같 &lt;                                   </mark>
100005-222	192.168.0.19	Default Department	08-00-27-00-94-36 14 14-May 2015 17-28 4 4 2 4 - (PC)	Offline		7 9, 2, 3 🗉 📑 🛩 😣
10001-9440	111.33.33.12	Default Department WORKGROUP	00-19-68-dd-6d-0f	Unlicensed 13-May-2015 16:49:26 root	~	🗹 🔍 💐 🗐 📰 🗏 🛯 😣

On a Windows Terminal Server, the Endpoint Protector Client will display RDP Storage disks shared by one or multiple Thin Clients as seen below.

		Endpoint Protector	Client Vers	ion		
	ENDPOINT PROTECTOR	àys				
	Device Control	Content Aware Protection		Settings		
				Search		Q
	Device		VID	PID	Serial Number	Device Code
	SanDisk / Ultra T C		781	5596	4C5300000	D0D5
	HP LaserJet Pro MFP M225-M	1226	0	0	ipp://192.16	685E
	Generic PostScript Printer		0	0	ipp://192.16	74C8
	Generic PostScript Printer		0	0	ipp://192.19	7A9C
	HP LaserJet 200 color MFP M	276. Fax	0	0	hpfax://HPD	3EC4
	Apple / Wireless Network Adap	pter (802.11 a/b/g/n/ac)	14E4	43A3	88-e9-fe-79	7077
To at	uthorize a blocked device. pleas	se Request Access from your administrat	tor.		Re	quest Access
ist serv	er connection: 2021-07-22 19:	13:20				

# 5.4. Users

From this section, you can manage all the users in the system. Users are defined as the end-users who are logged on a computer on which the Endpoint Protector Client software is installed. Any new user will be automatically added to the database, thus making them manageable.

0	Dashboard	«目 [	Device Control	- Users							
	Device Control	List o	of Users								^
	Dashboard Devicus Computers <u>Users</u> Groups	- Filt	t <b>ers ↓</b>								
	Global Rights Global Settings	Sho	w 10 🛩 entries							Excel PDF CSV	Show/Hide Columns Reload
	Custom Classes		Username	Employee ID	Team	Last Computer	Domain	Groups	Last Seen	Certificate added to Keychain/store	Actions
2	Content Aware Protection		Telefort			termination.	NAMES OF A		2010/01/01/01	10.	:=
	eDiscovery	Showin	g 1 to 1 of 1 entries								Previous 1 Next
	Denylists and Allowlists										
0	Enforced Encryption		Create	Choose action C	elete						Back
	Offline Temporary Password										
<u>~</u>	Reports and Analysis										
	Alerts										
o	Directory Services										
	Appliance										
¥i	System Maintenance										
Ø	System Configuration										

A user is identified by information like Name (Username, First Name, Last Name), Department, Contact Details (Phone, E-mail), and others and is also automatically assigned to a computer.

The Administrator can manually create a new user at any time by providing the user's parameters and information mentioned above. Users can also be imported into Endpoint Protector from Active Directory.

For detailed information on Active Directory, refer to the **Directory Services** chapter.

There are two users created by default during the installation process of Endpoint Protector:

- noUser is the user linked to all events performed while no user was logged into the computer. Remote users' names who log into the computer will not be logged and their events will be stored as events of noUser. Another occurrence of noUser events would be to have an automated script/software which accesses a device when no user is logged in to the specific computer.
- **autorunUser** indicates that an installer has been launched by Windows from a specific device. It is the user attached to all events generated by the programs launched from the specific device when Autoplay is enabled in the Operating System.

Important: Depending on the OS, additional system users can appear:

- \_mbsetupuser (for macOS, during updates)
- 65535, 62624, etc. (for Linux, during locked screens)

The Actions column offers multiple options related to user management like Edit, Manage Rights, History, and Delete.

#### 5.4.1. User Rights

The User Rights can be accessed by going to the Actions column for the specific user and selecting Manage Rights.

This section is built around the users, allowing the Administrator to specify what Device Types and also what Specific Devices can be accessible.

The Standard device control rights includes the Device Types and Already Existing Devices sections. These are generally the only device rights used.

In addition to the Standard device control rights, if enabled from the Global Settings, the administrator can create fallback policies for Outside Network and Outside Hours circumstances.

**Note:** The Restore Global Rights button can be used to revert to a lower level of rights. Once this button is pushed all rights on that level will be set to preserve global settings and the system will use the next level of rights.

All Existing Devices that were added on that level will be deleted when the restore is used.

🕥 Dashboard	« Device Control - User Rights - 5H7vQgRmjc			
Device Control Dashboard	Currently the system is using both computer and user rights, computer rights have priority.			×
Devices Computers	Device Types			^
Groups Giobal Rights Giobal Settings	O These are the device type rights that apply in general.			
File Allowlist	Unknown Device	Preserve global setting	Serial ATA Controller	Preserve global setting
Custom Classes	USB Storage Device	Preserve global setting	WIFI	Preserve global setting
Content Aware Protection	Internal CD or DVD RW	Preserve global setting	Bluetooth 🗸	Preserve global setting
eDiscovery	Internal Card Reader	Preserve global setting	FireWire Bus	Preserve global setting
Dandiete and Alloudiete	Internal Floppy Drive	Preserve global setting	Serial Port	Preserve global setting
	Local Printers	Preserve global setting	PCMCIA Device	Preserve global setting
Enforced Encryption	Network Printers	Preserve global setting	Card Reader Device (MTD)	Preserve global setting
Offline Temporary Password	Windows Portable Device (Media Transfer Protocol)	Preserve global setting	Card Reader Device (SCSI)	Preserve global setting
	Digital Camera	Preserve global setting	ZIP Drive	Preserve global setting
	BlackBerry	Preserve global setting	Teensy Board	Preserve global setting
Alerts	Mobile Phones (Sony Ericsson, etc.)	Preserve global setting	Thunderbolt	Preserve global setting
Directory Services	SmartPhone (USB Sync)	Preserve global setting	Network Share	Preserve global setting
	SmartPhone (Windows CE)	Preserve global setting	Infrared Dongle	Preserve global setting
	SmartPhone (Symbian)	Preserve global setting	Parallel Port (LPT)	Preserve global setting
System Maintenance	Webcam	Preserve global setting	Thin Client Storage (RDP Storage)	Preserve global setting
System Configuration	iPhone	Preserve global setting	Additional Keyboard	Preserve global setting
Carters Demonsters	iPad	Preserve global setting	USB Modern	Preserve global setting
System Parameters	iPod	Preserve global setting	Android Smartphone (Media Transfer Protocol)	Preserve global setting
🦲 Support			Chip Card Device	Preserve global setting
	Save			Allow all devices Block all devices

### 5.4.2. User Settings

From this section, you can edit the settings for each user.

Dashboard	« Device Control - Group Settings	- Group1					
Device Control	Endpoint Protector Client						^
Dashboard Devices Computers Users	Client Mode:	Normal	÷	0	Notifier language:	English	• 0
<u>Groups</u> Global Rights Global Settings File Allowlist	Policy Refresh interval (sec): Log Interval (min):	300 512		0	Log Size (MB): Shadow Size (MB):	30 513	0
Custom Classes	Shadow Interval (min):	60		0	Min File Size for Shadowing (KB):	0	0
Content Aware Protection	Recovery Folder Retention Period (days):	3		0	Max File Size for Shadowing (KB):	512	0
eDiscovery					Devices Recovery Folder Max Size (MB):	500	0
Denylists and Allowlists	Custom Client Notifications:	0.055			Liser edited information:	0.05	
O Enforced Encryption	Mandatani (VTD Sutification)				Online) Character Bacesnillen		
Offline Temporary Password	Pandatory OTP Justication:				Opucal Character Neosginium:		
Reports and Analysis	Extended Source Code Detection:				stop at Threat Threshold:	O OH	
Alerts							
Directory Services	Disable Bluetooth File Transfer:	OFF					
G Appliance							
System Maintenance	Notifications Pop-up:	OFF					
System Configuration							
System Parameters	Save						
🧕 Support	File Tracing and Shadowing						^
	File Tracing:	🗆 Ali	Removable Devices		eSATA HDD or Time Machine	Network Share	
	File Shadowing:	🗆 Ali	Removable Devices and Othe	er	Content Aware Protection	🗆 E-mail Body 🚯	

Defining custom settings for all users is not necessary since a user is perfectly capable of functioning correctly without any manual settings defined. It will do this by either inheriting the settings from the group it belongs to or, if not possible, the global settings, which are mandatory and exist in the system with default values from installation.

#### 5.4.3. User History

From this section, you can view the user history by selecting the View User History action. This will display the Logs Report page filtered for the respective user.

0	Dashboard	« E Reports	and Analysis - Logs	Report						
Ø	Device Control	Logs Report								^
	Content Aware Protection									
	eDiscovery	Filters A								
		Event:	Any		~	Computer:		QA MacBook Pro		
	Denylists and Allowlists	Main IP:	Main IP			Domain Na	me:	Domain Name		
0	Enforced Encryption	Username:	Username			Device Typ	e:	Anv	~	
	Offline Temporary Password		Denice			140-		L MD		
		Device:	Device			VID:		( VID		
	Reports and Analysis	PID:	PID			Serial Num	ber:	Serial Number		
	Logs Report File Tracing	OS Type:	Any		~					
	File Shadowing	Date/Time(Serve	r) From:		<b>H</b>	Date/Time	(Server) To:		<b>#</b>	
	Content Aware Report Content Aware File Shadowing	Date/Time(Clien	) From:		<b>H</b>	Date/Time	(Client) To:			
	Admin Actions	Apply	Poret	1						
	Online Computers	Poppy	NUSEA	1						
	Online Devices								Ca. i Lan Lani	
	Statistics	Show 10 V	entries						Excel PDF CSV	Show/Hide Columns Reload
	Alerts	Event	Computer	() Username	Device Type	Device	Date/Time(Server	) 🚽 🗖	Pate/Time(Client)	() Actions
6	Directory Services	File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:12	2 2	021-02-16 09:58:00	
		File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:12	2 2	021-02-16 09:58:01	
	Appliance	File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:12	2	021-02-16 09:58:00	
Yi	System Maintenance	File Copy	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2	021-02-16 09:57:57	
Ø	System Configuration	File Conv	QA MacBook Pro	qa	USB Storage Device	Cruzer Gide	2021-02-16 09:58:00	2	021-02-16 09:57:58	
		File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2	021-02-16 09:57:58	
	System Parameters	File Copy	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:00	2	021-02-16 09:57:58	
	Support	File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	3 2	021-02-16 09:57:58	
		File Write	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:58:03	2	021-02-16 09:57:59	
		Showing 1 to 10 of	101 entries						Previous 1 2	3 4 5 11 Next

# 5.5. Groups

From this section, you can manage all the groups in the system. Grouping computers and users will help the Administrator manage rights or settings for these entities in a more efficient way.

0	Dashboard	« Device Control - Group				
Í	Device Control	List of Groups				^
	Dashboard Devices Computers Users Groups Global Rights Global Rights	Filters  Fil			Excel P	DF CSV Show/Hide Columns Reload
		Group Name	Group Description	Domain	Priority	Actions
	Content Aware Protection			No matching records found		
	eDiscovery	Showing 0 to 0 of 0 entries				Previous Next
	Denylists and Allowlists					
0	Enforced Encryption	Create Choose action	Delete			Back
	Offline Temporary Password					
<u>~</u>	Reports and Analysis					
	Alerts					
0	Directory Services					
	Appliance					
Yi	System Maintenance					
0	System Configuration					

A group is identified by information like Name and Description, as well as based on the entities (Computers and Users).

You can manually create a new group at any time by providing the group information mentioned above. Groups can also be imported into Endpoint Protector from Active Directory.

Note: For detailed information on Active Directory, refer to the **Directory Services** chapter.

The Actions column offers multiple options related to the group's management like Edit, Manage Rights, Manage Settings, History, and Delete.

### 5.5.1. Group Types

#### 5.5.1.1. Regular Groups

Regular Groups are the groups created by the Administrator or are imported from AD and are not created based on a rule. From this section you can add or remove Computers or Users.

#### 5.5.1.2. Smart Groups

Smart Groups are a dynamic category of computers and user groups for which membership can be defined based on element name patterns.

To use Smart Groups, follow these steps:

1. Enable Smart Groups from **System Configuration**, **System Settings**, on the **Smart Groups** section, scroll to the bottom of the page and click **Save**.

**Note**: By enabling the Smart Group feature, Computers and Users will not be automatically assigned to the Default Group unless you create a Smart Group.

Smart Groups	
Enable Smart Groups:	<b>v</b> 🕐
Enable Default Group for Computers:	
Enable Default Group for Users:	

- 2. Create a Smart Groups from **Device Control**, **Groups** section. Click **Create**, provide the following and then click **Save**:
  - Group name, description and Department
  - Enable the Smart Group setting
  - Select the Entity, Computers or Users
  - Set rules for the Computers or Users by inclusion and exclusion

Define the rules Computers or Users are added to the Smart Groups based on the naming pattern rules: XYZ\*, \*XYZ\*,\*XYZ.

#### Important: The rules set are key-sensitive!

**Note**: Once created, you can manage the group's priority by drag and drop actions.

9	Dashboard	« 🗐 Device Contr	ol - Groups - Create						
	Device Control	Group Informatio	'n						^
	Devices Computers	Details							
	Users	Group Name:	Group Name			Description:	Descri	ption	
	Global Rights	Department:	Default Department	Ŧ					
	Global Settings File Allowlist Custom Classes	Smart Groups							
P	Content Aware Protection	Smart Group:				Tacluda Namas Likar		Evoluda Namas Likau	
	eDiscovery	Entity: Include Names Like:	Computers e.q.: XYZ*, *XYZ*, *XYZ	+	) 0				
	Denylists and Allowlists	Exclude Names Like:	e.g.: XYZ*, *XYZ*, *XYZ	+	0				
0	Enforced Encryption								
	Offline Temporary Password								
	Reports and Analysis	Save							Back
	Alerts								

3. Synchronize entities to the Smart Groups

The Smart Groups rule will not remove items from the regular groups to assign them to smart groups. Entities are added to the Smart group through the synchronization process. After you created the Smart Group, click **Sync** to start the synchronization at a given interval every 1 minute.

#### **Note**: The Synchronization process will not change settings for the regular groups.

If a new Computer is registered and matches one of the rules, the Computer will automatically be assigned to that Group.

If the new Computer does not match the rule, it will be added to the Default Group, if Default Groups are enabled from System Configuration, System Settings, and the Smart Groups section.

Dashboard	« 🗐 Device Contro	l - Groups - Edit Group 1				
Device Control	Changes have been saved!					×
Dashboard Devices Computers	Group Information					^
Users Groups Global Ryphts Global Settings File Allowlist Custom Classes	Details Group Name: Department:	Group 1 Default Department	*	Description:	Description	
Content Aware Protection	Smart Groups					
eDiscovery	Smart Group:	ON O				
Denylists and Allowlists	Entity:	Computers	*	Include Names Like:	Exclude Names Like:	
inforced Encryption	Include Names Like:	e.g.: XYZ*, *XYZ*, *XYZ	+ 0			
0ffline Temporary Password	Exclude Names Like:	e.g.: XYZ*, *XYZ*, *XYZ	+ 0			
Reports and Analysis						
Alerts						
Directory Services	Save	Sync Manage Rights	Delete			Back

4. Delete a Smart Group from the **Actions** column or select the group from the list and then click **Delete**.

1	Dashboard	«E	Device Control - Group					
7	Device Control	List	t of Groups					^
	Dashboard Devices Computers	— Fi	ilters ∨					
	Users <u>Groups</u> Global Rights	sł	how 25 🗸 entries			Excel PDF	CSV Show/Hide C	Columns Reload
	Global Settings File Allowlist		Group Name	Group Description	Group Type	Domain	Priority	Actions
	Custom Classes		Group 1		Smart		999	:=
P	Content Aware Protection	Show	ving 1 to 1 of 1 entries 1 row selecte	ed				Edit
	eDiscovery							Manage Settings
	Denylists and Allowlists		Create Choose act	tion Delete			ļ	🚫 Delete
0	Enforced Encryption							

Smart Groups have the following limitations:

- Smart Groups do not display assigned computers or users
- You cannot manually add an entity to a Smart Group
- Smart Groups are part of the Default Department but do not use Departments

If you disable Smart Group from System Settings, the Smart Group will be converted into a Regular Group. This will preserve its settings, rights, and other settings but will lose its entities and will remove the Default Group for Computers and the Default Group for Users.

User entities can only be assigned to Smart Groups after the synchronization process, not when a computer is registered, based on how the Endpoint Protector Client relays the user information.

When a Computer is registered, Endpoint Protector only receives information on computers; User information is relayed through events (logs) or regular pings/reprovision requests. User information is volatile: it can change between requests (different users can log in or log out on the same computer; log out events/sleep can also result in default hard coded user entities being marked as active/online).

#### 5.5.1.3. Default Groups

Default Groups are groups of Computers and Users that do not belong to Smart Groups. These are Computers and Users that do not follow the name pattern set for Smart Groups.

#### Note: Default Groups are available only if Smart Groups are enabled.

To use Default Groups, follow these steps:

1. Enable Default Groups for Computers and Users from **System Configuration**, **System Settings**, on the **Smart Groups** section, scroll to the bottom of the page and click **Save**.

Smart Groups	
Enable Smart Groups:	☑ ⑦
Enable Default Group for Computers:	<b>v</b> 🕐
Enable Default Group for Users:	<b>v</b> 🕐

**Important**: You are not required to manually create Default Groups – by enabling them, the Default Groups for Users and Computers will be automatically created.

<b>()</b>	Dashboard	«目 (	Device Control - Group					
	Device Control	List	of Groups					^
	Dashboard Devices Computers	— Filt	ters v					
	Users <u>Groups</u> Global Rights	Sho	w 25 🗸 entries		Đ	cel PDF CSV	Show/Hide Colun	nns Reload
	Global Settings File Allowlist		Group Name	Group Description	Group Type	Domain	Priority 🔻	Actions
	Custom Classes		Default Group - Users	Default Group for Users	Default		2	:=
			Default Group - Computers	Default Group for Computers	Derault		' 	
	eDiscovery	Showin	ng 1 to 2 of 2 entries				Prev	rious 1 Next
	Denylists and Allowlists		Create Choose action	Delete				Back
_ 🧿	Enforced Encryption							

2. Synchronize entities to the Default Groups

For Computers and Users to be assigned to the Default Groups, on the List of Groups from Device Control the Groups section, from the **Actions** column select **Edit**, and then click **Sync**.

<b>()</b>	Dashboard	« Device Con	trol - Groups - Edit Default Group - Users			
2	Device Control	Group Informat	ion			^
	Dashboard					
	Devices	Details				
	Computers					-, II
	Users	Group Name:	Default Group - Users	Description:	Default Group for Users	
	<u>Groups</u>	Departments	Default Department			
	Global Rights	Department:	Derault Department			
	Global Settings					
	File Allowlist	Cana	Curre Manage Dights		_	Dack
	Custom Classes	Save	Sync Manage Rights			Dack
P	Content Aware Protection					
	eDiscovery					

Default Groups have the following limitations:

- You can only edit Default Groups description, not the Default Groups name
- The Default Groups cannot be deleted, but can be disabled from **System Configuration**, **System Settings**, on the **Smart Groups** section
- If Default Groups are disabled, they will be deleted with all their dependencies.

# 5.5.1.4. Allowlists on Computer Groups

File Location, Network Share Allowlists, and File Location Denylist can be set for groups of Computers.

Allowed File File Location	Network Share E- n. ork Share Whiteliat	mail Domain URL Nam Items Default Network Share Whitei	e Deep Packet In	spection y Created at -	Modifi	ed by 🌲	Modified at	✓ Actions
Allowed File File Location	Network Share E- n.	mail Domain URL Nam Items Default Network Share Whitei	te Deep Packet In:	spection y	⇔ Modif	ed by	Modified at	▼ Actions i≡
Allowed File File Location a is only available for Content Aware Protection a is only	Network Share E	mail Domain URL Nam Rems Default Network Share Whiteli	Deep Packet In:     deep Packet In:	y  Created at Created at	⇔ Modif	ed by 🍦	Modified at	▼ Actions :≡
e is only available for Content Aware Protection     entries      Description     rk Share Whitelist     Default Netwo     of 1 entries	n.	Items Default Network Share Whiteli	Created b	y ∳ Created at	<ul> <li>Modifi</li> <li>.</li> </ul>	ed by 🔶	Modified at	Actions
ertries     Description     wk Share Whitelist     Default Netwo     of 1 entries	÷	Items Default Network Share Whiteii	Created b st	y 🔶 Created at	Modifi -	ed by 🍦	Modified at	Actions     I
Description     rk Share Whitelist     Default Netwo     of 1 entries	Cork Share Whitelist	Items Default Network Share Whiteli	Created b st -	y ∲ Created at	Modifiered in the second se	ied by 🔶	Modified at	✓ Actions
ork Share Whitelist Default Netwo	ork Share Whiteliat	Default Network Share Whiteli	st -				•	:=
of 1 entries								
							Pn	evious 1 Ne
								Back
Name				8 <b>.</b>	0			
Description				Groups			Computers	5
e.g.: fileserver\share	re\programs	0	Default Group Default Group test mac	p - Computers p - Users		CRISTIAN	IA. pok Pro	
			Smart Group	s				
	e.g.: fileserver(sha	e.g.: Reserver/share(programs	e.g.: fileserver\sharr\strongrograms	e.g.: Reserverisharelgroopams  Default Grou  Default Grou  Lest wo  Lest wo  Smart Group	e.g.: Rissever/share/programs	e.g.: Reserver(share(programs Default Group - Computers Default Group - Users Default Gr	e.g.: Reservert/share/programs	e.g.: Biserver(share(programs Default Group - Computers Default Group - Computers CRISTINVA

In the Groups select box, all groups will be displayed.

For a selected group the allowlist/denylist rule will apply only to computers from that group. If the group contains no computer, the rule won't apply to anything. The Administrator can select additional computers from the select box.

Smart groups are always in sync with all the contained computers for denylists, just like they apply to a policy. Groups selected on allowlists or denylists will be synchronized every 15 minutes.

# 5.5.2. Group Rights

The Group Rights can be accessed from the Actions column for the specific group and selecting Manage Rights.

This section is built around the group, allowing you to specify what Device Types and also what Specific Devices can be accessible.

This section is similar to the Computer Rights section, the difference being that it applies to all the computers that are part of the group simultaneously.

The Standard device control rights include the Device Types and Already Existing Devices sections. These are generally the only device rights used.

In addition to the Standard device control rights, if enabled from the Global Settings, you can create fallback policies for Outside Network and Outside Hours circumstances.

For detailed information on Device Types and Specific Devices (Standard, Outside Network, and Outside Hours), refer to the <u>Device Types</u> chapter.

**Note:** Use Restore Global Rights to revert to a lower level of rights. Once enabled, all rights on that level will be set to preserve global settings and the system will use the next level of rights.

**Note:** All Existing Devices that were added on that level will be deleted when the restore is used.

1	Dashboard	< El Device Control - Giobal Rights									
0	Device Control										
	Dashboard Devices Computers	Device Types									
	Users Groups <u>Global Rights</u> Global Settings File Allowlist	These are the device type rights that apply in general.  Unknown Device Deriv Access Deriv Acce									
	Custom Classes	USB Storage Device	Deny Access	WFI	Allow Access						
R	Content Aware Protection	Internal CD or DVD RW	Deny Access	Bluetooth 🗸	Allow Access V						
	, 	Internal Card Reader	Deny Access	FireWire Bus	Deny Access						
	euscovery	Internal Floppy Drive	Deny Access	Serial Port	Deny Access						
	Denylists and Allowlists	Local Printers	Deny Access	PCMCIA Device	Deny Access						
0	Enforced Encryption	Network Printers	Deny Access	Card Reader Device (MTD)	Deny Access						
199	Offline Temporary Password	Windows Portable Device (Media Transfer Protocol)	Deny Access	Card Reader Device (SCSI)	Deny Access						
		Digital Camera	Deny Access	ZIP Drive	Deny Access						
2	Reports and Analysis	BlackBerry	Deny Access	Teensy Board	Deny Access						
	Alerts	Mobile Phones (Sony Ericsson, etc.)	Deny Access	Thunderbolt	Deny Access						
	Directory Services	SmartPhone (USB Sync)	Deny Access	Network Share	Allow Access						
	onexery our need	SmartPhone (Windows CE)	Deny Access	Infrared Dongle	Deny Access						
	Appliance	SmartPhone (Symbian)	Deny Access	Parallel Port (LPT)	Deny Access						
Yi	System Maintenance	Webcam	Deny Access	Thin Client Storage (RDP Storage)	Deny Access						
6	System Configuration	Phone	Deny Access	Additional Keyboard	Allow Access						
		(Pad	Deny Access	US8 Modern	Allow Access						
	System Parameters	iPod	Deny Access	Android Smartphone (Media Transfer Protocol)	Deny Access						
	Support			Chip Card Device	Deny Access						
		Save			Allow all devices Block all devices						
_		Specific Devices									
		Filters 🗸									

#### 5.5.3. Group Settings

From this section, you can edit the settings for each group.

Dashboard	«     Device Control - Group Settings	s - Group1							
Device Control	Endpoint Protector Client								
Dashboard Devices Computers Users	Client Mode:	Normal	÷	0	Notifier language:	English	• 0		
<u>Groups</u> Global Rights	Policy Refresh interval (sec):	300		0	Log Size (MB):	30	0		
Global Settings File Allowlist	Log Interval (min):	512		0	Shadow Size (MB):	513	0		
Custom Classes	Shadow Interval (min):	60		0	Min File Size for Shadowing (KB):	0	0		
Content Aware Protection	Recovery Folder Retention Period (days):	3		0	Max File Size for Shadowing (KB):	512	0		
eDiscovery					Devices Recovery Folder Max Size (MB):	500	0		
Denylists and Allowlists	Curteen Client Netifications:	0.055			Hear edited information:				
Enforced Encryption	Custom Crest Hourications.	C Gre			User earled information.				
Offline Temporary Password	Mandatory OTP Justification:	OFF )			Optical Character Recognition:	OFF			
Reports and Analysis	Deep Packet Inspection:	OFF			Stop at Threat Threshold:	OFF			
Alerts	Extended Source Code Detection:	OFF )							
Directory Services	Disable Bluetooth File Transfer:	OFF							
G Appliance									
System Maintenance	Notifications Pop-up:	OFF							
System Configuration									
System Parameters	Save								
🦲 Support	File Tracing and Shadowing						^		
	File Tracing:	🗆 Ali	Removable Devices		eSATA HDD or Time Machine 🚯	Network Share			
	File Shadowing:	🗆 Ali	Removable Devices and Other	r	Content Aware Protection	E-mail Body 🚯			

Computers and users can be grouped to make editing the settings easier and more logical. Defining custom settings for all groups is not necessary since a computer is perfectly capable of functioning correctly without any granular settings defined. It will do this by either
inheriting the settings from the group it belongs to or, if not possible, the global settings, which are mandatory and exist in the system with default values from installation.

# 5.6. Global Rights

From this section, you can manage the entire system and specify what rights and settings apply globally, to all Endpoint Protector entities.

**Note:** If device rights or other settings will be configured granularly for entities, the priority order, starting with the highest, will be as follows:



This section relates to the entire system, allowing you to specify what Device Types and Specific Devices can be accessible. While Standard Rights Policies are the default ones, Outside Hours or Outside Network Policies are also available. These are dependent on first activating settings from Global Settings.

## 5.6.1. Device Types (Standard)

Endpoint Protector supports a wide range of device types, which represent key sources of security breaches. These devices can be authorized, which makes it possible for the users to view, create, or modify their content and for administrators to view the data transferred to and from the authorized devices.



- Removable Storage Devices
- Normal USB Flash Drives, U3 and Autorun Drives, Disk on Key, etc.
- USB 1.1, USB 2.0, USB 3.0
- Memory Cards SD Cards, MMC Cards, Compact Flash Cards, etc.
- Card Readers internal and external
- CD/DVD-Player/Burner internal and external
- Digital Cameras

- Smartphones / Handhelds / PDAs (includes Nokia N-Series, Blackberry, and Windows CE compatible devices, Windows Mobile devices, etc.)
- iPods / iPhones / iPads
- MP3 Player / Media Player Devices
- External HDDs / portable hard disks
- FireWire Devices
- PCMCIA Devices
- Biometric Devices
- Bluetooth
- Printers (applies to serial, USB, and LTP connection methods)
- Express Card (SSD)
- Wireless USB
- LPT/Parallel ports \*applies only to storage devices
- Floppy disk drives
- Serial ATA Controllers
- Network Printers

Depending on the device type, besides the Allow and Deny Access rights, additional rights are also available. These include Read-Only Access or multiple combinations of Allow Access but with various limitations, such as Allow access but exclude from CAP scanning or Allow Access if TrustedDevice Level 1 to 4.

The **Trusted Device**<sup>™</sup> technology integrated within Endpoint Protector is available in four security levels, depending on the degree of protection offered by a device (trusted devices using Enforced Encryption are TD level 1).

For detailed information on Trusted Device<sup>™</sup> and Enforced Encryption, refer to the <u>Trusted</u> <u>Device<sup>™</sup></u> chapter.

**Note**: With the WiFi – Block if wired network is present option you can disable the WiFi connection, while a wired network connection is present. The WiFi connection will be available when the wired network is not present.

Note: On macOS version 14 (Sonoma) and higher, Bluetooth devices are managed only when the device is connected and visible under 'My Devices' in the Bluetooth section of 'System settings'.



By default, the majority of device types are blocked. However, as a working internet connection or wireless keyboards are needed during the configuration process, several devices are set to Allow Access. These include Wi-Fi, Bluetooth, Network Share, Additional Keyboard, and USB Modem.

evice Types			
These are the device type rights that apply in general.			
Unknown Device	Deny Access	Serial ATA Controller	Allow Access
USB Storage Device	Deny Access	✓ WiFi	Allow Access
nternal CD or DVD RW	Deny Access	✓ Bluetooth ▲	Allow Access
nternal Card Reader	Deny Access	✓ Bluetooth Radio	Allow Access
iternal Floppy Drive	Deny Access	✓ Bluetooth Tablet	Allow Access
ocal Printers	Deny Access	✓ Bluetooth Other	Deny Access
etwork Printers	Allow Access	✓ Bluetooth Keyboard	Allow Access
indows Portable Device (Media Transfer Protocol)	Deny Access	✓ Bluetooth Mouse	Allow Access
igital Camera	Deny Access	✓ Bluetooth Smartphone	Allow Access
lackBerry	Deny Access	✓ Bluetooth Headphones	Deny Access
obile Phones (Sony Ericsson, etc.)	Deny Access	✓ FireWire Bus	Deny Access
nartPhone (USB Sync)	Deny Access	✓ Serial Port	Deny Access
nartPhone (Windows CE)	Deny Access	V PCMCIA Device	Deny Access
nartPhone (Symbian)	Deny Access	✓ Card Reader Device (MTD)	Deny Access
lebcam	Deny Access	✓ Card Reader Device (SCSI)	Deny Access
hone	Deny Access	V ZIP Drive	Deny Access
ad	Deny Access	✓ Teensy Board	Deny Access
od	Deny Access	✓ Thunderbolt	Deny Access
M USB Device	Deny Access	Network Share	Allow Access
		Infrared Dongle	Deny Access
		Parallel Port (LPT)	Deny Access
		Thin Client Storage (RDP Storage)	Allow Access
		Additional Keyboard	Allow Access
		USB Modem	Allow Access
		Android Smartphone (Media Transfer Protocol)	Deny Access
		Chip Card Device	Allow Access
Sala			

## 5.6.1.1. VM USB Device Usage

The VM USB device type extends Endpoint Protector applicability for VMWare and VirtualBox virtual environments.

You can also use this option to manage USB access through the virtual environment.

When using a virtual environment, the USB devices will not be displayed in the Endpoint Protector Notifier with their original names, VID and PID information. Only the original information will remain the serial number.

**Example**: In the below image, you can view the 3 devices detected by Endpoint Protector have different VID, PID and device code, but they all have the same serial number.

**Note**: The Endpoint Protector Client does not distinguish between USB devices (e.g. USB hard drive vs USB Webcam) by Device name/VID/PID.

Endpoint Protector Client Version 5.7.3.3					$\Box$ ×
ENDPOINT PROTECTOR					
Device Control	Settings				
		BQ9			Q
Device	VID	PID	Serial Number	Device Code	
UDISK / PDA05_1G_75G2.0	58F	6387	BQ93BYMM	B3A83456	
Oracle Corporation / VirtualBox USB	80EE	CAFE	BQ93BYMM	881E70EF	
VMware, Inc. / VMware USB Device	E0F	1	BQ93BYMM	27B08350	
To authorize a blocked device, please Reques	t Access from your admir	nistrator.		Request Access	
Last server connection: 2022-05-2 04:36:33					

## 5.6.2. Specific Devices (Standard)

From this section, you can manage access rights for a specific device.

Device rights can be set either Globally or, per Group, User, or Computer, by using the Manage Rights action from each section/entity.

0	Dashboard	« Device Contro	l - Global Rights										
	Device Control Dashboard	Currently the system is using	g both computer and user r	ights, computer rights have priority.									×
	Devices Computers Users						۲						
Groups Specific Devices												^	
	Global Settings File Allowlist	- Filters v											
Custom Classes Show 10 V entries										CSV Show/Hide Columns	Reload		
	Content Aware Protection	Device Type	Device Name	Description	VID	PID	Serial Number	File Allowlist	Device Code	a Last Computer	ð e	light	Actions
1	eDiscovery	USB Storage Device	Ultra T C	Ultra T C/SanDisk	781	5596	4C530000010914104285	No	D0D5	QA MacBook Pro	A	Niow Access	8
	Denylists and Allowlists	USB Storage Device	DT microDuo 3.0	DT microDuo 3.0/Kingston	951	16a3	1C1B0D6511ECE3616904A235	No	n/a	QA MacBook Pro	A	Now Access if TD Level 1+	8
0	Enforced Encryption	Showing 1 to 2 of 2 entries										Previou	s 1 Next
	Offline Temporary Password	Add											
200	Reports and Analysis												
	Alerts	Restore default Rights											
Ø	Directory Services												
	Appliance												
Yi	System Maintenance												
Ø	System Configuration												
	System Parameters												
	Support												

To add a new device click **Add** and provide the mandatory information.

There are multiple ways of adding devices:

• New Device (VID, PID, Serial Number) – will allow at Step 2 to add new devices based on Vendor ID, Product ID, and Serial Number.

0	Device Wizard (Step 2/2)				
	VID	PID	Serial Number	Description	+
1	Back Save				

• **Existing Device (Wizard)** – will allow at Step 2 to add devices previously connected to protected computers and already in the Endpoint Protector database.

Device Type	Device Name	Friendly Name	Description	VID	PID	Serial Number	Device Code	Last Computer	Q
USB Storage Device	USB_FLASH_DRIVE		USB_FLASH_DRIVE/LEXAR	5dc	a838	AA8BQLE0JHBEW55E	9C73	LARISAL	
USB Storage Device	USB Mass Storage Device	n/a	USB Mass Storage Device/Western Digital Technologies, Inc.	1058	25e1	57583631413937524B55594E	716F	DESKTOP-RUIIOH9	
USB Storage Device	USB Attached SCSI (UAS) Mass Storage Device	n/a	USB Attached SCSI (UAS) Mass Storage Device/ASMedia Technology Inc.	174c	5136	20000000A88	BC47	LARISAL	
USB Storage Device	ASMT1053	n/a	ASMT1053/ASMEDIA	174c	55aa	123456789012	50DB	LARISAL	
USB Storage Device	GOODRAM 16GB	n/a	GOODRAM 16GB/Wilk	1f75	917	17060505003115	8F1F	Mojave's MacBook Pro	
USB Storage Device	DATATRAVELER_2.0		DATATRAVELER_2.0/KINGSTON	930	6545	C8600088616CB0C1DA19FFB2	0E13	DESKTOP-RUIIOH9	
USB Storage Device	DATATRAVELER_3.0	n/a	DATATRAVELER_3.0/KINGSTON	951	1666	60A44C425324F260D9979085	1568	LARISAL	

 Device Serial Number Range – will allow at Step 2 to add multiple devices at the same time, by specifying the first and last Serial Number in the range. The recommended use for this feature is for devices that have a consecutive range, with a clear, noticeable pattern.

Device Wizard (Step 2/2)				
VID	PID	first Serial Number in the range	last Serial Number in the range	Description
Back Save				

**Note**: Although this feature can work in situations where the Serial Number range does not follow a noticeable pattern, this is not recommended. In this type of situation, some devices will be ignored by Endpoint Protector and will not have the expected effect.

• **Bulk List of Devices** – will allow at Step 2 to add up to 1000 devices at the same time. There are two methods to choose from, either importing a list or simply pasting the information.

Device Wizard (Step 2/2	)	
Enrolment Options:	<ul> <li>Type or Paste content</li> </ul>	<ul> <li>Import content</li> </ul>
Devices:	e.g.: 5ac, 5b9, B84001110130	000001, STORAGE_MEDIA

The File Allowlist feature is also available for USB storage devices that have allowed access. For detailed information on using the File Allowlist, refer to the **File Allowlist** File chapter.

#### 5.6.3. Outside Network

Note: To use this setting, the feature needs to be enabled in the Global Settings section.

From this section, you can define fallback policies that will apply when outside the network. All of the functionalities are identical to the Standard section.

🕥 Dashboard	« Device Control - Global Rights			
Device Control	Standard Outside Network Outside Hours			
Dashboard Devices Computers	Currently the system is using both computer and user rights, computer rights have priority.			×
Groups	Device Types			^
<u>Giobal Rights</u> Giobal Settings File Allowlist Custom Classes	$\ensuremath{\bigcap}$ These are the device type rights that apply in general.			
Content Aware Protection	Unknown Device	Deny Access	Serial ATA Controller	Allow Access
	USB Storage Device	Deny Access	V WiFi	Allow Access 🗸
eDiscovery	Internal CD or DVD RW	Deny Access	Bluetooth V	Allow Access 🗸
Denylists and Allowlists	Internal Card Reader	Deny Access	V FireWire Bus	Deny Access
O Enforced Encryption	Internal Floppy Drive	Deny Access	Serial Port	Deny Access
Offina Temporany Decouord	Local Printers	Deny Access	PCMCIA Device	Deny Access
	Network Printers	Deny Access	Card Reader Device (MTD)	Deny Access
Reports and Analysis	Windows Portable Device (Media Transfer Protocol)	Deny Access	Card Reader Device (SCSI)	Deny Access
Alerts	Digital Camera	Deny Access	V ZIP Drive	Deny Access
	BlackBerry	Deny Access	V Teensy Board	Deny Access
Directory Services	Mobile Phones (Sony Ericsson, etc.)	Deny Access	➤ Thunderbolt	Deny Access
园 Appliance	SmartPhone (USB Sync)	Deny Access	V Network Share	Allow Access
System Maintenance	SmartPhone (Windows CE)	Deny Access	V Infrared Dongle	Deny Access
	SmartPhone (Symbian)	Deny Access	V Parallel Port (LPT)	Deny Access
System Configuration	Webcam	Deny Access	<ul> <li>Thin Client Storage (RDP Storage)</li> </ul>	Deny Access
System Parameters	iPhone	Deny Access	Additional Keyboard	Allow Access
Support	iPed	Deny Access	V USB Modem	Allow Access
	iPod	Deny Access	Android Smartphone (Media Transfer Protocol)	Deny Access
			Chip Card Device	Deny Access 🗸
	Save			Allow all devices Block all devices

#### 5.6.4. Outside Hours

Note: To use this setting, the feature needs to be enabled in the Global Settings section.

From this section, you can define fallback policies that will apply when outside working hours. All of the functionalities are identical to the Standard section.

0	Dashboard	« Device Control - Global Rights					
Ø	Device Control	Standard Outside Network Outside Hours					
	Dashboard Devices Computers	Currently the system is using both computer and user rights, computer rights have priority.					×
	Users Groups	Device Types					^
	Global Rights Global Settings File Allowlist Custom Classes	These are the device type rights that apply in general.					
R	Content Aware Protection	Unknown Device	Deny Access	~	Serial ATA Controller	Allow Access	~
		USB Storage Device	Allow Access if device is Trusted	~	WiFi	Allow Access	~
	eDiscovery	Internal CD or DVD RW	Deny Access	~	Bluetooth A	Allow Access	~
	Denylists and Allowlists	Internal Card Reader	Deny Access	~	Bluetooth Radio	Deny Access	~
0	Enforced Encryption	Internal Floppy Drive	Deny Access	~	Bluetooth Tablet	Allow Access	~
		Local Printers	Deny Access	~	Bluetooth Keyboard	Allow Access	~
	Offline Temporary Password	Network Printers	Deny Access	~	Bluetooth Other	Deny Access	~
<u>}~</u>	Reports and Analysis	Windows Portable Device (Media Transfer Protocol)	Deny Access	~	Bluetooth Mouse	Allow Access	~
	Alerts	Digital Camera	Deny Access	~	Bluetooth Smartphone	Allow Access	~
		BlackBerry	Deny Access	~	Bluetooth Headphones	Deny Access	~
	Directory Services	Mobile Phones (Sony Ericsson, etc.)	Deny Access	~	FireWire Bus	Deny Access	~
	Appliance	SmartPhone (USB Sync)	Deny Access	~	Serial Port	Deny Access	~
¥1	System Maintenance	SmartPhone (Windows CE)	Deny Access	~	PCMCIA Device	Deny Access	~
		SmartPhone (Symbian)	Deny Access	~	Card Reader Device (MTD)	Deny Access	~
0	System Configuration	Webcam	Deny Access	~	Card Reader Device (SCSI)	Deny Access	~
	System Parameters	iPhone	Deny Access	~	ZIP Drive	Deny Access	~
	Support	iPad	Deny Access	~	Teensy Board	Deny Access	~
	oopport	iPod	Deny Access	~	Thunderbolt	Deny Access	~
_					Network Share	Allow Access	~
					Infrared Dongle	Deny Access	~
					Parallel Port (LPT)	Deny Access	*

# 5.7. Global Settings

From this section, you can apply settings globally to all Endpoint Protector entities.

- If there are no settings defined granularly for a computer, and it does not belong to a group, these are the settings it will inherit.
- If the computer belongs to a group, then it will inherit that group's settings.

**Note**: Several settings from this section also relate to other modules apart from the Device Control module (Content Aware Protection, eDiscovery, etc.).

0	Dashboard	«     Device Control - Global Setting	js				
Ĩ	Device Control	Endpoint Protector Client					^
	Dashboard Devices Computers	Client Mode:	Normal ~	0	Notifier language:	English *	0
	Users Groups	Tamper Mode:					
	Global Rights <u>Global Settings</u> Custom Classes	Policy Refresh interval (sec):	15	0	Log Size (MB):	512	0
P	Content Aware Protection	Log Interval (min):	1	0	Shadow Size (MB):	102400	0
	eDiscovery	Shadow Interval (min):	1	0	Min File Size for Shadowing (KB):	0	0
	Desitive and All of the	Recovery Folder Retention Period (days):	3	0	Max File Size for Shadowing (KB):	10485760	0
	Denylists and Allowiists				Devices Recovery Folder Max Size (MB):	5000	0
<u></u>	Enforced Encryption						
	Offline Temporary Password	Custom Client Notifications:	OFF		User edited information:	OFF OFF	
<u>~</u>	Reports and Analysis	Mandatory OTP Justification:	OFF		Optical Character Recognition:	OFF OFF	
	Alerts	Extended Source Code Detection:	OFF		Disable OCR notifications:	OFF OFF	
Ø	Directory Services				Limit Reporting Content Aware Protection:	OFF	
	Appliance	Deen Parket Inspection:			Do not scan recently downloaded files:		
Yi	System Maintenance						
Ô	System Configuration	Disable Bluetooth File Transfer:	OFF 6		Allow formatting/renaming Removable devices in Trusted Device Level 1+ (TD1+):	ON 0	

## 5.7.1. Endpoint Protector Client Settings

From this section, you can manage settings that relate directly to the Endpoint Protector Client and the Client's behavior for each specific entity (Global, Groups, and Computers).

• **Client Mode** – select a mode to change Endpoint Protector Client behavior.

Note: Learn more from the <u>Client Mode</u> section.

 Notifier Language – Configure the Endpoint Protector Client to automatically match the OS language of the user for notifications. When set to "Automatic," the client adjusts its language to the user's OS language preference without any server interactions, enhancing the user experience and reducing confusion.

To configure the EPP Notifier language selection:

- 1. Navigate to **DEVICE CONTROL -> GLOBAL SETTINGS** in the Endpoint Protector Console.
- 2. In the "**Notifier language**" section, select either "**Automatic**" or "**Default**" based on your preferences.
  - 2.1. "Automatic" means the language will be detected automatically from the OS, without server interaction.
  - 2.2. "Default" means the language selected on the server will be applied. If the "Automatic" language was selected on the server, the "Automatic" language will be used.
- 3. Save your settings to apply the chosen language selection.

With this enhanced language selection feature, Endpoint Protector provides a more accommodating experience for users, making notifications and alerts more accessible and user-centric.

• **Tamper Mode** – enable this setting to protect the Endpoint Protector Client from unauthorized termination and modification

**Important:** A machine or service reboot is mandatory after enabling this setting to work correctly.

• **Policy Refresh Interval (sec)** – enter the time interval at which the Client checks with the Server and updates with the latest settings, rights, and policies.

**Note**: The policy refresh cycles may be influenced by Azure Active Directory sync intervals (or Active Directory syncs) if Endpoint Protector is configured to sync entities. Please consider the sync intervals of your Azure Active Directory or Active Directory sync processes when determining an appropriate policy refresh interval.

- Log Interval (min) enter the time interval at which the Client attempts to re-send the Logs to the Server.
- **Shadow Interval (min)** enter a time interval between 0-720 minutes at which the Endpoint Protector Client sends the file Shadows to the Endpoint Protector Server.

**Note**: Set the interval to 0 to send the file shadows instantly.

• **Recovery Folder Retention Period (days)** – this setting is specific for Mac and Linux computers. It acts as a quarantine folder before a transferred file has been fully

inspected for content, avoiding any potential file loss due to blocked transfers. After the specified time interval, the files are permanently deleted.

- Log Size (MB) enter the largest size of all logs stored on the Client. If the value is reached, new logs will overwrite the oldest ones. These circumstances occur only when the Client and Server do not communicate for a large period of time.
- Shadow Size (MB) enter the largest size of all file shadows on the Client. If the value is reached, new shadows will overwrite the oldest ones. These circumstances occur only when the Client and Server do not communicate for a large period of time.
- Min File Size for Shadowing (KB) enter the smallest size of a file at which a File Shadow is created.
- Max File Size for Shadowing (KB) enter the largest size of a file at which a File Shadow is created.
- Devices Recovery Folder Max Size (MB) this setting is specific for Mac and Linux computers. Maximum size for the quarantine folder. If the value is reached, new files will overwrite the oldest ones.

Endpoint Protector Client	indpoint Protector Client								
Client Mode:	Normal	0	Notifier language:	English	0				
Tamper Mode:	ON O								
Policy Refresh interval (sec):	15	0	Log Size (MB):	512	0				
Log Interval (min):	1	0	Shadow Size (MB):	102400	0				
Shadow Interval (min):	1	0	Min File Size for Shadowing (KB):	0	0				
Recovery Folder Retention Period (days):	3	0	Max File Size for Shadowing (KB):	10485760	0				
			Devices Recovery Folder Max Size (MB):	5000	0				

- **Custom Client Notifications -** if enabled, the Client Notifications can be customized.
- **Mandatory OTP Justification** if enabled, the Justification a User has to provide when requesting or using an Offline Temporary Password is mandatory.
- Extend Source Code Detection if enabled, this will extend the detection also inside of file type, such as PDF, Docx, etc. With Monitor Webmail setting enabled, you can also detect source code in emails in subject and body using web browsers.

**Note**: Source Code Detection may encounter challenges when dealing with small code snippets. This can occur due to the potential overlap among various programming languages. It's important to consider these limitations when configuring and utilizing Source Code Detection for optimal results.

- **User edited information** if enabled, the User can edit the user and computer information from within the Endpoint Protector Client.
- **Optical Character Recognition** if enabled, JPEG, PNG, GIF, BMP, and TIFF file types can be inspected for content. This option will also change the global MIME Type Allowlists.

- **Disable OCR notifications** if enabled, this will disable all notifications generated by the **Optical Character Recognition** setting.
- Limit Reporting Content Aware Protection if enabled, this will allow information discovered after reaching the Threat Threshold or after matching the Content Detection Rule that contains AND operator for a Report Only Content Aware Protection policy, to no longer be logged. This considerably reduces the number of logs, therefore, optimizing the allocated storage space.

Custom Client Notifications:	OFF	User edited information:	OFF
Mandatory OTP Justification:	OFF	Optical Character Recognition:	OFF
Extended Source Code Detection:	OFF	Disable OCR notifications:	OFF
		Limit Reporting Content Aware Protection:	OFF

- **Disable Bluetooth File Transfer** if enabled, this setting will block transfers to Bluetooth Devices, without considering if they are paired or not to the endpoint. **This only applies to Windows endpoints.**
- Allow formatting/renaming Removable devices in Trusted Device<sup>™</sup> Level 1+ (TD1+)
   only available for Windows, enable this setting to allow the user to format or rename a USB device that has TD1-x access permission.

Note: For this setting to work successfully, enable the Minifilter Driver setting.

- User Remediation Pop-up this setting is available when the <u>User Remediation</u> <u>feature</u> is active and enables User Remediation pop-up notifications for end-users.
- **Enforce User Remediation Pop-up** this setting is available only if the User Remediation Pop-up setting is enabled. When this setting is enabled, end-users cannot disable User Remediation Pop-up notifications.
- **Notifications Pop-up** you can select between the traditional notification, system tray, or pop-up notifications.
- Enable Minifilter driver only available for Windows, this setting allows the use of an enhanced driver that provides more reliability and ease of maintenance. You can also enable this setting on the Computers/Users/Groups/Global Rights sections with Manage Settings from the Actions column.
- User Remediation Notification Template you can select from the drop-down list a custom notification.
- Show Request OTP section in EPP Client disable this setting to hide the Request OTP action from Endpoint Protector Client
- Show Authorize section in EPP Client disable this setting to hide the Authorize action from Endpoint Protector Client

Disable Bluetooth File Transfer:	ON O	Allow formatting/renaming Removable devices in Trusted Device Level 1+ (TD1+):	
User Remediation Pop-up: Enforce User Remediation Pop-up:		Notifications Pop-up:	
Enable Minifilter driver:	ON . 3		
Show Request OTP section in EPP Client:	ON O	Show Authorize section in EPP Client:	
Save			

#### 5.7.1.1. Client Mode

You can select from the drop-down list a client mode to define the Endpoint Protector Client behavior.

Endpoint Protector Client		
Client Mode:	Normal	- 8
Policy Refresh interval (sec):	Normal	6
Log Interval (min):	Transparent Stealth	0
Shadow Interval (min):	Panic Hidden Icon	0
Recovery Folder Retention Period (days):	Silent	•

1. **Normal** – this is the default and recommended setting to use before being fully aware of what the other modes imply. Normal mode does not apply to Content Aware Protection; all other client modes, except Silent mode, are specific to device control.

**Note**: If the Normal Mode does not suit your needs, consider the **Hidden** or **Silent** modes as the best alternatives.

 Transparent – use this mode to block all devices whilst maintaining users unaware of any restrictions or presence of the Endpoint Protector Client. Transparent mode does not apply to Content Aware Protection; all other client modes, except Silent mode, are specific to device control.

Selecting this mode will:

- Not display the system tray icon
- Not display system tray notifications

- Block everything, regardless of authorized or not
- Administrator receives alerts for all activities
- 3. **Stealth** Use this mode to discreetly monitor users and computers with a focus on device control and file-tracing. Stealth mode does not apply to Content Aware Protection; all other client modes, except Silent mode, are specific to device control.

**Note**: As everything is allowed, there will be no disruptions in the daily activities of the users.

Selecting this mode will:

- Not display the system tray icon
- Not display system tray notifications
- Allow everything, regardless of authorized or not
- · Enable file shadowing and file tracing to view and monitor all user activity
- Administrator receives alerts for all activities
- Panic This mode should be selected under extreme situations when a user's malicious intent or activity is detected by the EPP Admin. Panic mode does not apply to Content Aware Protection; all other client modes, except Silent mode, are specific to device control.

# **Important**: It is recommended to use this mode for selected users/groups/computers only, as it will block all devices and generate a high volume of logs!

Selecting this mode will:

- Display the system tray icon
- Display system tray notifications
- Block everything, regardless of authorized or not
- Enable file shadowing and file tracing to view and monitor all user activity
- Administrator receives alerts when computers go in and out of Panic Mode
- 5. Hidden Icon this mode is similar to Normal mode, except that the Endpoint Protector Client is not visible to the user. Hidden Icon mode does not apply to Content Aware Protection; all other client modes, except Silent mode, are specific to device control.

Selecting this mode will:

- Not display the system tray icon
- Not display system tray notifications
- Apply all set rights and settings as per their configuration

6. Silent - this mode is similar to Normal mode, except that pop-up notifications are not visible to the user.

Selecting this mode will:

- Display the system tray icon
- Not display system tray notifications
- Apply all set rights and settings as per their configuration

## 5.7.2. DPI Configuration

In this section, you can manage the following settings:

- **Deep Packet Inspection** if enabled, network and browser traffic can be inspected for content. This option is required for both the Deep Packet Inspection Allowlists and URL and Domain Denylist.
- Use Stealthy DPI Driver enable this driver to improve interoperability with independent software vendors
- Intercept VPN Traffic if you enable this setting, you allow the Endpoint Protector Client to intercept VPN traffic on macOS using the network extension framework

Note: Learn more from the Intercept VPN Traffic section.

- EPP Behavior with Network Extension Off select a behavior type from the available entries
- **Peer Certificate Validation** enable this setting to turn on the Endpoint Protector certificate validation of the websites that are accessed by the user when DPI is active.
  - Ignore Expiration Date when checked, expired certificates will be ignored and traffic will be permitted.
  - Ignore Trust when checked, certificates will not be validated against the Root Certificate.
  - Ignore Hostname when checked, the certificate hostname property will not be validated against the server hostname.

**Important**: Disabling setting '**Peer Certificate Validation**' will not impact EPP functionality. It should only be disabled when an alternative network traffic inspection product, such as a Secure Web Gateway Solution, is validating website certificates.

- **Display Dialog Boxes for DPI Dropped Connections** enable this setting to display Dialog windows on endpoint machines, containing more details.
- **Disable DPI Dropped Connections Notifications** check this setting to suppress notifications shown by the Notification Center nearby the System tray.
- **Block Unsecured Connection** if enabled, unsecured access through HTTP will be blocked and user access restricted.

**Note**: The **Block Unsecured Connection** feature is only available when the Deep Packet Inspection feature is enabled.

- **DPI Bypass Traffic** this setting automatically bypasses non-inspectable traffic and sends an event for allowed traffic.
  - Possible Bypass reasons:
    - Bypass DPI Certificate Rejection by Third-Party Applications
      - Enable this setting, if SSL errors are encountered from the source applications, such as web browsers, like:
        - SSL\_R\_TLSV1\_ALERT\_UNKNOWN\_CA
        - SSL\_R\_SSLV3\_ALERT\_CERTIFICATE\_UNKNOWN
        - This signifies that the source application failed to validate the server certificate, which was issued by Endpoint Protector.
        - The absence of the DPI certificate in the system keychain may also contribute to this scenario.
        - 'Certificate Pinning' also falls under this category.

Note: Learn more about Using Wireshark for Network Traffic Analysis.

- Bypass Unknown TLS Handshakes
  - Enable this setting, when a secure port connection employs custom encryption instead of TLS, the DPI bypass is activated.
    - This is exemplified by configuring Telegram.app for DPI monitoring, logging into the app, and encountering an unknown TLS handshake.
- Bypass Websites Temporarily Whitelisted (Possible mTLS Connection/SSL Setup Failure/Unsupported TLS Protocol)
  - Enable this setting where an SSL setup failure or an unsupported TLS protocol error occurs on the server side of an SSL connection. EPP temporarily allow-lists the website.
    - While specific examples are infrequent, such instances involve potential mTLS connections.
- Bypass Websockets
  - Enable this setting, when Websites utilize websockets with arbitrary data protocols.
    - EPP passthroughs connections upon the HTTP connection's upgrade to a websocket.

- Examples are applications, such as WhatsApp Web, Firefox Send etc.
- Bypass on HTTP Errors Indicating mTLS Requirement
  - Enable this setting, when a server indicates the requirement of a client certificate (mTLS).
    - EPP triggers bypass for HTTP error codes like '400 Bad Response' and '496 SSL Certificate Required'.
    - Accessing <u>https://client.badssl.com/</u> from a web browser without providing the necessary client certificate illustrates such situations.
- Bypass Invalid Peer Certificates
  - Enable this setting, to permit connections with invalid peer certificates when 'Peer Certificate Validation' is enabled.
    - If both 'Bypass Invalid Peer Certificates' and 'Peer Certificate Validation' are enabled, 'Bypass Invalid Peer Certificates' will override setting 'Peer Certificate Validation'.
    - Accessing <u>https://expired.badssl.com/</u> from a web browser with both settings 'Bypass Invalid Peer Certificates' and 'Peer Certificate Validation' enabled, illustrates such situations (the website will be accessible).

**Important:** Please be aware that the current Default DPI list and the new Default DPI bypass list are exclusively utilized when manually checked within CAP (Content Aware Protection) policies.

**Note**: Learn more about <u>Timeout Period for Bypassed Websites</u>, and <u>Handling of</u> <u>Bypassed Domains and Applications</u>.

• **DPI Bypass Event Logging** – this setting will automatically send DPI Bypass events/reasons to EPP Server when connections are being bypassed on endpoints.

Note: Learn more about Bypass Log Reporting Frequency.

DPI Configuration					^
Deep Packet Inspection:	ON				
Use Stealthy DPI Driver:	OFF 9	Block Unsecured	Connection:	OFF	
Intercept VPN Traffic:		Smart DPI loggin	g:	ON OB	
EPP Behaviour with Network Extension Off:	Temporary Disable Deep Packet Inspection	Smart DPI Suppr	ess Interval (sec):	30	0
Peer Certificate Validation:	ON 0 3	DPI Bypass:		ON ()	
🗌 Ignore Expiration Date 🚯			Bypass DPI Certificate Rejection by	Third-Party Applications 🚯	
🗌 Ignore Trust 🚯			Bypass Unknown TLS Handshakes	9	
🗌 Ignore Hostname 🚯			Bypass Websites Temporarily White (Possible mTLS Connection/SSL Set	isted up Failure/Unsupported TLS Protocol) 🚯	
			🗹 Bypass Websockets 🚯		
			Bypass on HTTP Errors Indicating n	TLS Requirement 🚯	
			🗹 Bypass Invalid Peer Certificates 🚯		
Display Dialog Boxes for DPI Dropped Connections:	OFF 6	DPI Bypass Even	t Logging:		
Disable DPI Dropped Connections Notifications:	ON 6				

#### 5.7.2.1. Intercept VPN Traffic

If you enable this setting, the Endpoint Protector Client will intercept VPN traffic on macOS using the network extension framework.

**Note**: The Intercept VPN Traffic feature is only available when the Deep Packet Inspection feature is enabled. It will only work for macOS from version 11.0 onwards and only if Deep Packet Inspection Certificate is also added.

To use this feature, follow these steps:

- 1. Enable Deep Packet Inspection
- 2. Enable Intercept VPN Traffic
- 3. Select an option for EPP behavior when network extension is disabled
  - Temporary Disable Deep Packet Inspection this will disable Deep Packet Inspection temporary
  - **Block Internet Access** this will block the Internet connection until the user approves the Endpoint Protector Proxy configuration. The user also can allow the configuration after rebooting the PC.
  - **Repeat VPN notification** this will display the VPN pop-up window multiple times even after the user has previously denied permission
- 4. Click Save;
- On the pop-up window informing the user that a System Extension is blocked, click OK to allow;



6. Go to **System Preferences**, **Security and Privacy**, **General**, and then allow the Endpoint Protector Client Extension;

• • • < > IIII Security & Privacy Q s	earch
General FileVault Firewall Privacy	
A login password has been set for this user Change Password	
✓ Require password 5 minutes S after sleep or screen saver be	gins
Show a message when the screen is locked Set Lock Message	
Disable automatic login	
Allow apps downloaded from:	
• App Store and identified developers	
System software from application "EndpointProtectorClient" was blocked from loading.	Allow
Click the lock to prevent further changes.	Advanced ?

7. On the Endpoint Protector Proxy Configuration pop-up window, click Allow;



#### Note: When network extension is successfully enabled, a Client Integrity OK log is generated.

8. Go to System Configuration, System Settings, Deep Packet Inspection Certificate, and then download the CA Certificate;

0	Dashboard	« Default System Settings	
Ö	Device Control	Custom Settings	
Ð	Content Aware Protection	Show VID, PID and Serial Number for Offline Temporary Password:	0
	eDiscovery	Show MAC Address For Offline Temporary Password:	0
		Show User Domain:	
	Denylists and Allowlists	MAC Address Priority:	
0	Enforced Encryption	Virtual Desktop Clones	
	Offline Temporary Password	Virtual Desktop Clones Support:	
2	Reports and Analysis	Deep Packet Inspection Certificate	
	Alerts	Deep Packet Inspection Certificate download :	On
		Download Client CA Certificate	
	Directory Services		
	Appliance	Single Sign On	
-	Contara Malatarana	Enable Single Sign On Login:	0
	System Maintenance	Active Directory Authentication	
٢	System Configuration	Fachie Anti-a Directory Anti-activation	0
	Client Software	Enable Active Directory Authentication: Connection Type:	© Standard ∩ SSL ∩ TLS ∩ SSL/TLS
	Client Software Upgrade	Domain Controller Server Name (or IP):	
	Client Uninstall	Domain Controller Port:	
	Administrators Groups	Domain Name:	0
	System Departments	Account Suffix:	0
	System Security	User:	
	System Settings	Password:	
	System Licensing	Active Directory Administrators Group:	0
	System Parameters	Active Directory Operations:	Sync AD Administrators Test Connection
	Support	E.mail Conver Cottinge	

9. On your macOS, open the Keychain Access application and go to System;

•••	Keychain Access	Cí (j) Q Searc	h	
Default Keychains	All Items Passwords Secure Notes	My Certificates Keys C	Certificates	
<ul> <li>♪ login</li> <li>② iCloud</li> <li>System Keychains</li> <li>③ System</li> </ul>	Certificate         Control of the second s	uthority 30 at 11:24:50 Eastern Europ ed as trusted for all users	bean Summer Time	
System Roots	Name	~ Kind	Expires	Keychain
	🛃 QA INT CoSoSys	certificate	17 May 2030 at 11:24:50	System
	QA CA CoSoSys	certificate	14 May 2040 at 11:19:17	System
	🛅 com.apple.systemdefault	certificate	24 Aug 2039 at 13:14:25	System
	😋 com.apple.kerberos.kdc	certificate	24 Aug 2039 at 13:14:26	System
	> 🛃 18D0BF9B-7F00B094-0F774D0	9E9DA certificate	10 May 2025 at 10:00:41	System

- 10. Decompress the ClientCerts file;
- 11. Select the cacert.pem file and drag and drop it on Keychain Access, System;

< > ClientC Back/Forward	Certs 2	i≣ ≎ ≫ View	Q Search		Keychain Access	ľ	(i) Q Se	
	ClientCerts 2		+	Default Keychains	All Items Passwords Se	cure Notes	Ay Certificates	Keys Certificates
Name	A Date Modified	Size	к	d login	18D08598	-7500-4800	-B004-0577	
cacert.cer	Today at 17:29		1 KB c	iCloud	Certificate Issued by: Co	SoSys JSS Buil	It-in Certificate A	Authority
cacert.crt	Today at 17:29		1 KB c	Curtar Kaushalar	Expires: Satur	rday, 10 May 20	025 at 10:00:41 E	astern European Summer Time
cacert.pem \	Today at 17:29		5 KB p	System Keychains	V This certifi	cate is marked	as trusted for all	users
				System				
				System Roots	Name	~	Kind	Expires
					R QA INT CoSoSys		certificate	17 May 2030 at 11:24:50
					QA CA CoSoSys		certificate	14 May 2040 at 11:19:17
					com.apple.systemdef	fault	certificate	24 Aug 2039 at 13:14:25
					com.apple.kerberos.k	kdc	certificate	24 Aug 2039 at 13:14:26
					<b>—</b> 192.168.15.238		certificate	4 Oct 2029 at 12:19:01
					> 🔀 18D0BF9B-7F94-0F	774D09E9DA	certificate	10 May 2025 at 10:00:41

12. Double click the **X** from the newly added certificate and select **Always Trust** from the **Trust** section;

	Keychain Access I G & Search	
Default Keychains	All Items Passwords Secure Notes My Certificates Keys Certificates	
iCloud System Keychains	Certificate Root certificate authority Expires: Thursday, 4 October 2029 at 12:19:01 Eastern European Summer Time This root certificate is not trusted	
System Poots	192.168.15.238	Keychain
	Image: Ward of the second state of	System System System System System

13. Save the changes.

# 5.7.2.2. Smart DPI (Log Throttling)

Enable this setting to address the number of excessive false positives for URL Denylists. This improvement provides you with a configuration option to filter out non-relevant information, resulting in a more accurate log that focuses on true false positives and reduces unnecessary noise saving database storage.

DPI Configuration				^
Deep Packet Inspection:	ON 3			
Use Stealthy DPI Driver:	0FF 6	Block Unsecured Connection:	OFF	
Intercept VPN Traffic:		Smart DPI logging:	ON S	
EPP Behaviour with Network Extension Off:	Temporary Disable Deep Packet Ins 👻	Smart DPI Suppress Interval (sec):	30	8
Peer Certificate Validation:	ON • 3	DPI Bypass:	ON ()	

## 5.7.2.3. Bypass Log Reporting Frequency

EPP's agent ensures efficient resource utilization by reporting each domain name and application pair at most once every two weeks. This approach prevents an overwhelming influx of logs, which could reach excessive numbers if reported more frequently.

## 5.7.2.4. Timeout Period for Bypassed Websites

To maintain a streamlined process, EPP enforces a timeout period of two weeks. During this timeframe, the state for bypassed websites is retained. Beyond this period, the bypass state is automatically removed, contributing to effective resource management.

## 5.7.2.5. Handling of Bypassed Domains and Applications

EPP employs a nuanced approach to handle bypassed domains and applications:

## 5.7.2.5.1. Memory and Disk Persistence

Bypassed website information is stored in both memory and on disk. This dual storage ensures that the list of skipped websites is readily accessible for efficient future reference. By persisting this information, the frequency of log generation can be controlled to avoid unnecessary strain on resources.

## 5.7.2.5.2. Clearing Bypass State

To reset the bypass state and clear associated records, administrators can initiate a simple process. Temporarily disabling and subsequently re-enabling the bypass DPI setting on the EPP server achieves this reset.

## 5.7.2.6. Using Wireshark for Network Traffic Analysis

Prior to a "DPI certificate rejected" event, Wireshark can be instrumental in diagnosing network traffic. The presence of a "TLS alert" error in Wireshark signals the impending event.

# 5.7.3. File Tracing and Shadowing

In this section, you can manage the following settings:

 File Tracing – this feature allows you to monitor data traffic between protected endpoints and removable devices, internal eSATA HDDs, and Network Shares. It also shows other actions that took place, such as files named, deleted, accessed, modified, etc.

To enable this feature, you can do so from **Device Control**, **Global Settings**, or granularly for **Groups** or **Computers**.

• File Shadowing – this feature extends the information provided by File Tracing, creating exact copies of files accessed by users.

The creation of shadow copies can be triggered by the following events: file copy, file write, and file read. Events such as file deleted, file renamed, etc. do not trigger the function.

You can enable File Shadowing on all supported Removable Devices:

#### o eSATA HDDs or Time Machines

o Network Shares

o **Content Aware Protection** - file transfers through various exit points such as online applications, printers, clipboards, etc.

#### o E-mail Body

#### Important: File Shadowing cannot be used without File Tracing.

File Shadowing can be delayed due to network traffic and Endpoint Protector Settings for different computers or file sizes. Shadowed files are usually available after a few minutes. Shadow creation may not occur for newly created files; however, the system diligently tracks file activities and generates File Shadowing for subsequent file events as expected.

**Note:** For your deployment, we strongly advise activating File Shadowing for not more than 15% of your total endpoint capacity (e.g., for a 1000 endpoint deployment, File Shadowing should be set to a maximum of 150 endpoints for optimal performance). For more users, please contact customer support for recommended settings.

- Exclude Extensions from Tracing you can disable File Tracing for specific file types.
- Exclude Extensions from Scanning you can disable scanning for specific file types.
- File Tracing Direction this setting enables you to monitor file transfers based on transfer direction:

- o **Outgoing File Tracing Direction** is defined by transfers made from the local machine to removable devices.
- o **Incoming File Tracing Direction** indicates transfers from the removable devices to the local machine.
- o **Both (Outgoing & Incoming)** allows you to monitor all types of transfers that are made between removable devices and the local machine.

**Note**: The File Tracing Direction setting only applies for transfers between removable devices, computers, and network shares and works only on Windows and macOS starting with version 11.0.

- Exclude Extensions from Shadowing use this setting to disable File Shadowing for specific file types.
- Scan archive in archive use this setting to define the archive depth in which content is inspected.
- Block Time Machine if you enable this setting, you will block Time Machine backups on macOS.

File Tracing and Shadowing						^
File Tracing:	All Removable Devices			eSATA HDD or Time Machine 6	✓ Network Share	
File Shadowing:	Z All	Removable Devices and Other 🚯		Content Aware Protection	Z E-mail Body 🚯	
Exclude Extensions from Tracing:	e.g.: .mp3;.vob;	.exe;	0	Exclude Extensions from Shadowing:	e.g.: .mp3;.vob;.exe;	0
Exclude Extensions from Scanning:	e.g.: .mp3;.vob;.	.exe;	0	Scan archive in archive:	4 times v	0
File Tracing Direction:	Both (Outgoing 8	k Incoming) 👻	0	Block Time Machine:		
Exclude Extensions from Tracing: Exclude Extensions from Scanning: File Tracing Direction:	e.g.: .mp3;.vob; e.g.: .mp3;.vob; Both (Outgoing &	.exe; exe; & Incoming) •	]0 ]0 ]0	Exclude Extensions from Shadowing: Scan archive in archive: Block Time Machine:	e.g.: .mg3;vob;.exe; 4 times • Ott	0

- Metadata Scanning if you disable this setting, metadata will not be scanned for PDFs, ZIPs, and Office Files DOCX, XLSX, PPTX, DOC, XLX, PPT).
- Advanced Printer and MTP Scanning if you enable this setting, this will increase accuracy and reduce false positives for File Tracing and File Shadowing. It is available only for Windows and will require a computer restart
- **Block Print from Browsers** available only for Windows, enable this setting to restrict the user from printing web pages from various browser types available.
- **File Hash** if you enable this setting, a file hash will be generated and included in the file transfer logs.
- Scan Printed Document select if you want to be notified a threat was restricted on the whole document or on the specific page.

Metadata Scanning:	ON	Advanced Printer and MTP Scanning:	ON O
Block Print from Browsers (Windows only):			
Web Browser      Internet Explorer     Oper     Safari     Safari     Molia Frefox     Orone     Satisfuely     Nacolan     Satisfuely     Macolan     Actionation 9.6     Aurice Firefox     Q. Search			
File Hash:	ON .	Scan Printed Document:	Per document 👻
Save			

**Important:** Newer Linux Ubuntu versions have 'snap'-based applications installed by default, affecting EPP Client functionality. This may result in missing file-related events in File Tracing and File Shadow artifacts. The reliance on 'snap'-based applications also affects file-related web browser activities, exacerbating this limitation. Consider non-'snap'-based applications (where possible) as alternative configurations for optimal functionality.

#### 5.7.3.1. Block Print from Browsers

Enable this setting to restrict the user from printing web pages from various browser types available, define the specific browsers, and create and enforce a Content Aware Policy that includes **Printers** from the **Policy Exit Points** section.

Note: This setting is available only for Windows.

**Important:** After enabling the "Block Print from Browsers" setting and applying the configuration on the Client to enforce it, please be aware that open browser tabs will need to be reloaded, or a browser restart will be required for the changes to take effect.



Users printing from Google Chrome and Microsoft Edge can utilize content-aware detection

by enforcing a Content Aware Policy that includes Printers from the Policy Exit Points section. For seamless protection, the EPP Browser Connection extension installs automatically the first time upon enabling the Block Print from Browsers setting. This extension enhances content scanning capabilities during web document printing, integrating seamlessly on both server and client sides.

**Note:** The extension does not function in 'in Private/Incognito' mode. If it fails to load, it reverts to full Block-mode with Printing, providing comprehensive protection.

**Note**: To ensure the extensions' stability and prevent user interference, use Group Policy Objects (GPO), the exclusive and recommended method for installing on both Google Chrome and Microsoft Edge.

**Important**: Use the Group Policies to set PDF files to be downloaded instead of opened in the web browser for the block print from the browser to function accurately.

**Important:** Group Policy Objects (GPO) are the only supported method to prevent users from disabling or uninstalling the Google Chrome and Microsoft Edge extension.

## 5.7.3.2. Configuring GPO for Browser Extensions

To configure Group Policy Objects (GPO) to deploy a browser extension to Windows machines and prevent users from removing it, follow these steps:

- 1. Google Chrome
  - Refer to the official <u>Google support guide</u> for detailed instructions.
  - Download Chrome Group Policy Template <u>here</u>.
  - Configure your Group Policy as shown below.
    - EPP Browser Connector ID: nnnaeanocbmnnjjlcfhcbpefmlgbcgoi



- 2. Microsoft Edge
  - Utilize the guide provided by Microsoft: <u>Configure Microsoft Edge</u>.
  - Download the Edge Group Policy Template from this link.
  - Configure your Group Policy as shown below.
    - EPP Browser Connector ID: nnnaeanocbmnnjjlcfhcbpefmlgbcgoi

Group Policy Management Editor				-	0 ×
File Action View Help					
Google Chrome Disable Extensions [1 11 11 11 11 11 11 11 11 11 11 11 11	Extensions		200		
Computer Configuration	Control which and and and	Setting	Chate		
> Policies	Control which extensions are	secong	State		
> Preferences	instance silencity	<ol> <li>Blocks external extensions from being installed</li> </ol>	Not configured		
v . User Configuration	C.d. and a second second	Configure allowed extension types	Not configured		
Policies	con poncy second	Control which extensions cannot be installed	Not configured		
Software Settings	Requirements	Control which extensions are installed silently	Enabled		
Windows Settings	Microsoft Edge version 77.	Configure extension and user script install courses	Not configured		
7 Administrative Templeters Deline definitions (ADMY Elect) ratio and from the local computer	Windows 7 or later	Configure extension and user script install sources	Not configured		
<ul> <li>Administrative lempates rolicy definitions (Admix files) retrieved nom the local computer.</li> </ul>		Allow specific extensions to be installed	Not configured		
	Description:	Configure extension management settings	Not configured		
> Desktop	Set this policy to specify a list of				
> Network	apps and extensions that install				
Shared Folders	silently, without user interaction.	D.			
Start Menu and Taskbar	this setting. Permissions are	45			
> 🛄 System	granted implicitly, including the				
> 🔛 Windows Components	enterprise.deviceAttributes and				
Classic Administrative Templates (ADM)	enterprise.platformKeys extension				
V Google	APIs. Note: These 2 APIs aren't				
) Coogle Chrome	available to apps and extensions				
Google Chrome - Default Settings (users can override)	that aren't force-installed.				
Microsoft Edge	W. A. W. AND T.				
<ul> <li>Introstit tage</li> </ul>	if you don't set this policy, no				
Application Guard Security	autoinstalled and users can				
Cast	uninstall any app in Microsoft				
Content settings	Edge.				
Default search provider					
Edge Workspaces settings	This policy				
Experimentation	supercedes 'ExtensionInstallBlockli				
🔛 Extensions	st' (Control which extensions				
Games settings	cannot be installed) policy. If a				
HTTP authentication	previously force-installed app of				
Identity and sign-in	list Microsoft Edge automatically				
Immersive Reader settings	uninstalls it.				
Kiosk Mode settings					
Managaability	For Windows instances not joined				
Native Mercaging	to a Microsoft Active Directory				
Parameter and expection	domain, forced installation is				
Password manager and protection	limited to apps and extensions				
Construction designed and the second	ons website.				
Permit or deny screen capture					
Printing Printing	On macOS instances, apps and				
Private Network Request Settings	extensions from outside the				
Proxy server	Microsoft Edge Add-ons website				
Sleeping tabs settings	can only be force installed if the				
SmartScreen settings	instance is managed via MDM, or				
Startup, home page and new tab page	Jonnes to a domain via MCA.				
TyposquattingChecker settings	The source code of any extension				
> 🧾 Microsoft Edge - Default Settings (users can override)	can be altered by users with				
K All Settings	developer tools, potentially				
> Preferences	rendering the extension				
And the second second	unfunctional. If this is a concern,				
	configure	V			
	the DeveloperToolsAvailability'				
	Extended (Standard /				

**Important:** Make sure to thoroughly test the configuration in a controlled environment to ensure the intended behavior. Always keep endpoint security policies updated and aligned with organizational security standards.

## 5.7.4. Ignore Virtual Printers

We introduced an option to Ignore Virtual Printing events, empowering customers to have control over Content Aware Protection and File Tracing visibility over virtual printers like Microsoft to PDF, PDFCreator, and more. This enhancement not only helps conserve valuable log space but also reduces the workload on your analytics and administration teams. With this option, you can now focus on tracking PDFs only when they exit your organization's environment and not when they have been created, streamlining your monitoring efforts and improving efficiency.

Note: This feature only applies for Windows.

## 5.7.5. Configure Max File Size

This section allows customers to tailor Content Aware Protection scanner's file size settings according to their specific needs. By customizing these settings, you can ensure Endpoint Protector meets your organization's requirements. The default maximum file size is set at 40 MB, with a maximum limit of 4096 MB.

Furthermore, you have the flexibility to configure additional file type sizes, which are set as follows by default: PDF (2048 MB) and Archives (256 MB). These file type sizes can be adjusted within the range of 1 KB to 4 GB to accommodate your specific needs.

Additionally, in the Windows environment, a default time-out of 10 seconds is applied. For MacOS, a strict 10-second time-out is enforced due to Apple OS architecture, which terminates processes that do not respond promptly. Linux currently operates without a specific time-out limitation.

**Note:** This setting only applies to Content Aware Protection policies and does not affect eDiscovery Policies and Max File Size for File Shadows.

«🔳 Device Control - Global Settin	gs				
Configure Max File Size					^
Default file size (MB): Additional file type: Additional file type size (MB):	40 Additional File Type Additional file type size	•	620	Additional File Types:	
Save					

## 5.7.6. Outside Hours and Outside Network

From this section, you can manage Outside Network and Outside Hours Policies, for both Device Control and Content Aware modules.

- Outside Hours policies enable the setting and then set the Working days, Business hours start time, and end time.
- Outside Network policies enable the setting and then add the DNS Fully Qualified Domain Name and DNS IP Addresses.

Once these settings are made, the fallback device type rights can be set Globally, per Groups, Users, or Computers.

**Important**: When triggered, fallback policies supersede the standard device rights. Regarding fallback policies, the Outside Network Policies supersede the Outside Hours Policies.

**Note**: For <u>**Content Aware Policies**</u>, the Outside Network and Outside Hours Policy Type also needs to be selected.

Outside Hours and Outside Network			^
Outside Hours Policies:		Business hours start time:	09:00
Working days:	x Monday x Tuesday x Wednesday	Business hours end time:	18:00
	X Thursday X Friday		
Outside Network Policies:	011		
DNS Fully Qualified Domain Name:	e.g.: example.cososys.com	DNS IP Address:	e.g.: 192.168.1.10 +
DNS Fully Qualified Domain Name:	e.g.: example.cososys.com	DNS IP Address:	e.g.: 192.168.1.10 -
Save			

## 5.7.7. Transfer Limit

From this section, you can set the transfer limit, within a specific time interval (hours). Once the limit is reached, file transfers to storage devices (Device Control) to control applications (Content Aware Protection) will no longer be possible, until the time interval expires and the count is reset. Similarly, file transfers through Network Shares can also be included in the Transfer Limit.

Transfer Limit				^
Transfer Limit:		Transfer Limit Time Interval (hours):	e.g.: 24	0
Transfer Limit:	· · · · · · · · · · · · · · · · · · ·	Transfer Limit Files Size / Number of Files:		0
Monitor transfers through:	<b></b>	Limit Reached Action:	Lockdown -	
Transfer Limit Reached Alert:		Transfer Limit Reached Report:	v	
Save				

The mechanism that checks when the Transfer Limit is reached has been designed in such a way that it does not impact the performance of the computer.

Therefore, there might be a slight delay between the exact time the limit is reached and the enforcement of the transfer restrictions. In general, it's just a few seconds but also depending on the network, it could be up to a few minutes.

There are three actions to choose from when the Transfer Limit is reached:

- Monitor Only this setting reports when the limit is reached
- **Restrict** this setting blocks the devices and applications that have been defined in the Device Control policies

 Lockdown – this setting blocks all devices, regardless if they have been defined within the Device Control policies, including the network interfaces and therefore, any type of transfer

**Note**: To re-establish the Server-Client communication before the Transfer Limit Time Interval expires, a Transfer Limit Reached Offline Temporary Password is available. For detailed information, refer to the **Offline Temporary Password** chapter.

You can enable a Transfer Limit Reached Alert and schedule a Transfer Limit Reached Report on a daily, weekly, or monthly basis.

Transfer Limit Reached Alert:	Transfer Limit Reached Report:	v
Save Reset Counter		Daily Weekly Monthly

## 5.7.8. Debug Logging

You can use this feature to collect logs for a specific issue and send the resulting archive to the Endpoint Protector Server on the Reports and analysis section, the Logs Report page.

By enabling this feature, the Endpoint Protector Client will create the log file (general log file), and if Deep Packet Inspection is enabled, it will collect supplementary Deep Packet Inspection logs along with sslsplit logs.

**Note**: We recommend using the Debug level mode as it contains more than error and warning type information.

DEBUG Logging			^
Set Log Level:	None	•	
Save			

## 5.7.8.1. Debug Logging Usage

Manual Logging

To use the debug feature and collect logs, follow these steps:

- 1. On the Global/Computer/User Settings page, enable the following settings:
  - Debug Mode from the DEBUG logging section
  - Select the logs level (None, Error, Warning, Informational, Debug)
  - For Error, Warning, Informational, and Debug log levels select if you want to obfuscate sensitive data
  - Save

#### Note: Read the **Data Obfuscation Rules** section for more information.

ENDPOINT PROTECTOR				Get More Licenses	Û	Welcome
Dashboard	« Device Control -	Global Settings				
Device Control	DEBUG Logging					~
Dashboard						
Devices	Set Log Level:	Error	-			
Computers		Chfuscato Sonsitivo Data				
Users		Obruscate Sensitive Data				
Groups	Save					
Global Rights						
Global Settings						
Custom Classes						

- 0. Right-click the Endpoint Protector Client icon and select Update Policies Now;
- 0. Replicate the issue to generate the corresponding logs;
- 0. Open the Endpoint Protector Client and go to the **Troubleshooting** tab;
- 0. Click Upload Logs this will upload the logs on the Endpoint Protector Server;
- 0. Go to the **Global Settings** page and disable Debug Mode.

Endpoint Protector Client Version 5.8	.0.0		
ENDPOINT by CoSoS	ys		
Device Control	Content Aware Protection	Settings	Troubleshooting
Debug mode: Enabled			
DPI: Disabled			
Troubleshooting steps:			
1. Enable DEBUG mode in the	e server console.		
2. Select "Update Policies No	w" in EPP Notifier.		
3. Replicate the issue.			
4. Press "Collect Logs".			
5. Share the Diagnostic locate	ed on your Desktop.		
			Collect Logs
Last server connection: 2022-06-27	16:09:23		

#### • Automatic Logging

You can also substitute the user action from the Manual Logging procedure (steps 4 and 5) by using the automatic logging option.

This option is available from **Device Control** on the **Computer** page.

Hover over a computer, right-click, and select **Collect diagnostic** - this will collect logs from a specific computer without input or knowledge from the computer user.

Logs will be sent to the Endpoint Protector Server on the **Logs Report** page, **Artifact Received** events are registered when diagnostic data are received.

## 5.7.8.2. Debug Logging Actions

To view the log actions, go to the Device Control module, on the **Computers** page and click the **Actions** column.

Dashboard	«E	Device Cor	ntrol - Com	nputers											
Device Control Desiboard Devices <u>Computers</u> Users Groups Giobal Rights Giobal Retirtogs Culetor Gases	List - Fil Sho	of Compute Iters v Select all entries	ers :							Exc	xel PDF	CSV	Show/Hide Co	olumns	Reload
Content Aware Protection		Computer Name	Username	Main IP	IP List	Domain (	Groups	05	Rights	Settings	Last Seen	Client Version	License	Status 👌	Actions
eDiscovery     Denylists and Allowlists     Enforced Encryption		raar 1 Torgaan	10411	11-1-100 M	101.72.25 102.54710131 12.5500.5482.105 12.5500.5482.105 12.5500.005.49 12.5500.005.49 12.5500.005.49			rann Teolasa yi Konstructura	TRATIN	10.04	NULL NULL NULL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Edit Manage Rights Manage Settings Offline Temporary	Password	
Offline Temporary Password	Showi	ng 1 to 4 of 4 en	tries		a provide cards are a to preside within color								Mark as Terminal S View History Uninstall Client	Server	:=
Reports and Analysis		Cranta	Uning	stall Choose act	ion Deleti							-   0   0	Delete Terminate Client Forced Restart Cor	mputer	1 Next

• **Collect Diagnostics** - registers an event when diagnostic data are requested (Artifact requested event)

	« 🗧 Device Control - Computers													
Selecte	Selected client machine(s): will be sent the Collect Diagnostics action!													
List	List of Computers													
- Filt	Filters ✓													
Sho	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload								load					
	Computer	Username	Main IP	IP List	Domain 🖕	Groups	05	<b>₿</b>	Rights 🔶	Settings $\bigeline$	Last Seen 🔻	Client Version	License	Status
	energies of	-		NA DALARA	at		Windows 11 Pro x64 22H2 (22621.1194)	c	Custom	Global	2023- 02-08 16:52:31	5.9.0.5 - (Windows)	Licensed	Online

 Go to Diagnostic data - this option redirects the user to the Reports and Analysis module on the Logs Report page to Artifact received type events with debug mode logs.

Logs Report										
Filters A										
Event:	Artifact Rece	ived	-		Compu	ter:				
Main IP:	Main IP				Domair	n Name:	Domain N	lame		
Username:	Username				Device	Туре:	Any			-
Device:	Device				VID:		VID			
PID:	PID				Serial 1	Number:	Serial Nu	mber		
OS:	OS				EPP Cli	ent Version:	EPP Clien	t Version		
Date/Time(Server) From:			1							
Date/Time(Client) From:			=	Date/Time(Client) To:					î	i i
Apply Show 10 v ent	Reset						Excel PDF	CSV	Show/Hide Columns	Reload
Event	Computer 🔶	Main IP	Username	Device Type	Device 🍦	Date/Time(Se	rver)	Date/Tin	ne(Client) 🔶	Actions
Artifact Received	1040423	10,746 (24	and the			2023-02-08 16:5	i3:07	2023-02-0	8 16:52:48	
Artifact Received	10000	10100-000	100	-		2023-02-08 16:5	i1:16	2023-02-0	8 16:50:59	$\bigcirc$
Artifact Received	and the second s	100 Aug 10 Aug	100	-		2023-02-08 16:4	9:41	2023-02-0	8 16:49:30	
Artifact Received	- Destination	10.000	-	-		2023-02-08 16:0	14:07	2023-02-0	8 16:03:45	
Artifact Received	100000-00	10100-000	1000	-		2023-02-08 15:5	i1:30	2023-02-0	8 15:51:20	
Artifact Received	indealers (1)	10,140,034	and the second s	-		2023-02-08 15:4	18:42	2023-02-0	8 15:48:31	
Artifact Received	000000	10000	100	-		2023-02-08 15:4	7:53	2023-02-0	18 15:47:36	

• Terminate Client - this option terminates the Endpoint Protector Client

« Device Control - Computers	
Selected client machine(s): will be sent the Terminate Client action!	×
List of Computers	^
Filters ¥	
Select all entries	
Show 10 v entries Excel PDF CSV Show/Hide Columns Reload	

• Forced Restart Computer - this option sends a force reboot command to the computer, restarting it in 10 minutes after using the command. The user receives a message warning to avoid losing unsaved documents.

1

Are you sure you want to issue a restart computer command to the	nis client machine(s)?	×
Use this option with caution. The target machine will receive a for min after receiving the setting. Unsaved documents will get lost!	ced Reboot command, res	starting the endpoint 5
	No	Yes

« El Device Control - Computers	
Selected clent machine(s):	×
List of Computers	^
Filters v	_
Select all entries	
Show 10 v entries Excel PDF CSV Show/Hide Columns Reload	d
Computer Name View Main IP IP List Domain Groups OS Rights Settings List Version License Status Action	ns

#### 5.7.8.3. Data Obfuscation Rules

All data is obfuscated according to the following rules:

• the first 4 characters are displayed if the length of the threat is lower than 12 characters

or

• the first 6 characters are displayed if the length of the threat is longer than 12 characters

Specific use cases:

- 1. For credit cards, the PCI Security Standards were implemented
- 2. For SSNs, the last 4 characters are displayed
- 3. For Brazil ID (CPF), the first 3 and the last 2 characters are obfuscated

**Important**: Data is not obfuscated for the file-type threat, file-size threat, and date threat.

.3	13:09:29.216	23964 DEBUG	ngram NO candidates (code: 0), +ile = \\192.168.0.3\public\groups\
13	13:09:30.131	18860 DEBUG	process created: 2548/1060, 'svchost.exe', image: 'C:\Windows\Syst
13	13:09:30.287	24432 INFO	OCR background scan finishing [scan_persist::PersistentScanCache::
13	13:09:30.663	4056 DEBUG	QuickLogs HTTP 200 application/soap+xml (1339/698) [CSoapClient::Set
13	13:09:36.657	19480 INFO	scan app data request type: 14,x0001, from 23912, size: 18409 [cf:
13	13:09:36.657	19480 INFO	<pre>scanning request to: 'dlptest.com', content: 'multipart/form-data;</pre>
13	13:09:36.679	19480 DEBUG	PDF form fields count is: 0 [cf::PdfDataFilter::finalUpdate PdfData
13	13:09:36.684	19480 INFO	threat: iban 'GB82 WXXXXXXXXXXXXXXXXXXXXXXXXXXX, pol: 'test', op: 17, a
13	13:09:36.684	19480 DEBUG	Adding the threat 'iban' to the found threats inventorv of policv

23.951	22992 INFO	ignoring request to: clients6.google.com , content: text/plain; cnarset=UIF-8 , length: 8838,
:24.941	19480 INFO	scan app data request type: 14,x0001, from 23912, size: 8837 [cf::DlpMain::scanAppData DlpMain.d
24.951	19480 INFO	ignoring request to: 'clients6.google.com', content: 'text/plain; charset=UTF-8', length: 8805,
26.582	23492 DEBU	G Sdr logs to upload is 0, scanProgress is 100.0 [CSiESoapClient::GetPing SiESoapClient.cpp:196]
26.755	23492 DEBU	6 Ping HTTP 200 application/soap+xml (1869/816) [CSoapClient::SendRequest SoapClient.cpp:286]
28.968	24232 INFO	scan app data request type: 14,x0001, from 23912, size: 8837 [cf::DlpMain::scanAppData DlpMain.c
28.968	24232 INFO	ignoring request to: 'clients6.google.com', content: 'text/plain; charset=UTF-8', length: 8805,
:38.941	19480 INFO	scan app data request type: 14,x0001, from 23912, size: 5750 [cf::DlpMain::scanAppData DlpMain.c
:38.942	19480 INFO	ignoring request to: 'chat.google.com', content: 'application/x-www-form-urlencoded;charset=UTF
39.154	5556 DEBUG	process created: 10320/1204, 'Background Task Host', image: 'C:\Windows\System32\backgroundTaskHo
:39.281	5556 DEBUG	process created: 20012/1204, 'RuntimeBroker.exe', image: 'C:\Windows\System32\RuntimeBroker.exe'
39.562	19480 INFO	scan app data request type: 14,x0001, from 23912, size: 16277 [cf::DlpMain::scanAppData DlpMain.
:39.562	19480 INFO	scanning request to: 'dlptest.com', content: 'multipart/form-data; boundary=WebKitFormBounda
39.576	19480 INFO	threat: credit-card/diners '360863XXXX3457', pol: 'test', op: 17, action: 1, Web Upload*[diners.
39.576	19480 DEBU	G Adding the threat 'credit-card/diners' to the found threats inventory of policy 'test', current
39.576	19480 DEBU	G The policy 'test' was satisfied by threshold [cf::PoliciesScanStatus::setPolThresholdIsMet Polic
:39.576	19480 DEBU	6 Policy 'test' was satisfied, action is: '1' [cf::threatDetected ScanContext.cpp:1040]
39.576	19480 DEBU	G  First time a policv was satisfied for threat tvpe 'credit-card/diners' [cf::threatDetected Scand

3:08:04.018	22992 INFO	scan app data request type: 14,x0001, from 23912, size: 6322 [cf
3:08:04.018	22992 INFO	ignoring request to: 'play.google.com', content: 'application/x-
3:08:04.033	6752 INFO	scan app data request type: 14,x0001, from 23912, size: 7626 [cf:
3:08:04.033	6752 INFO	ignoring request to: 'play.google.com', content: 'application/x-w
3:08:11.889	22992 INFO	scan app data request type: 14,x0001, from 23912, size: 1665 [cf
3:08:11.889	22992 INFO	<pre>scanning request to: 'dlptest.com', content: 'multipart/form-dat</pre>
3:08:11.889	22992 INFO	threat: ssn/at 'XXXXXX1176', pol: 'test', op: 17, action: 1, We
3:08:11.889	22992 DEBUG	Adding the threat 'ssn/at' to the found threats inventorv of pol

20004 UEDUG	process created: 14496/9052, connost, image: c
5556 DEBUG	process created: 22500/1204, 'Background Task Host'
22192 DEBUG	process created: 4940/1204, 'RuntimeBroker.exe', i
6752 INFO	scan app data request type: 14,x0001, from 23912, s
6752 INFO	scanning request to: 'dlptest.com', content: 'multi
6752 INFO	<pre>threat: passport/fi 'MT12XXXXX', pol: 'test', op: 1</pre>
6752 DEBUG	Adding the threat 'passport/fi' to the found threat

## 5.7.9. Easylock Settings

From this section you can allow EasyLock to be installed and run only on computers that have Endpoint Protector installed or in relation to a list of trusted Endpoint Protector Servers.

Easylock Settings		^	
EasyLock Installation and Execution 🕄 Endpoint Protector Client presence			
EasyLock Multi Server 🚯			
Multi Server:	Additional Server IP Address:	e.g.: 192.168.1.10	
	Additional Server IP Address:	e.g.: 192.168.1.10 –	
Save			

## 5.7.10. Additional Information

From this section you can restore global settings to default and view the name and date when the action was performed.

Additional Information		^
Modified at:	Modified by:	
Restore Global Settings		

## 5.7.11. Display Settings

From this section you can set the maximum number of logs displayed on the Endpoint Protector Server and the number of reports per page.

You can set a maximum number of 10 000 logs to be displayed per report. To export all entries when the log number exceeds the maximum 10 000 limit, use the **Create export** option or narrow the search using filters.

Note: The information you set on this setting will also be applied for eDiscovery.

Display Settings				^
Maximum no. of records returned in a report search:	200 -	No. of records per report page:	10 -	
Save				

# 5.8. Custom Classes

This section provides you with the option to create new classes of devices for easier management. It is a powerful feature, especially for devices belonging to the same vendor and/or being the same product (same VID and/or PID).

A new Custom Class can be created by clicking on the Create. An existing policy can be edited by double-clicking on it.

You can edit, duplicate or delete a policy after selecting the policy.

0	Dashboard	« E Device Control > Custom Classes	
1	Device Control	Custom Classes	ī
	Dashboard Devices		1
	Computers Users	Example1 Example2	
	Groups Global Rights	No description No description	
	Global Settings		
	File Allowlist Custom Classes		
P	Content Aware Protection		
	eDiscovery	Create Delete	
	Denylists and Allowlists		
0	Enforced Encryption		
	Offline Temporary Password		
	Reports and Analysis		
	Alerts		
Ø	Directory Services		
	Appliance		

Before adding devices to a Custom Class, the Name, Description, Device Type (USB Storage Devices, Cameras, etc.), Device Right (Allow Access, Block Access, etc.) must be provided. Once this is done, there are multiple ways of adding devices to a Custom Class:

• New Device (VID, PID, Serial Number) – will allow at Step 2 to add new devices based on Vendor ID, Product ID, and Serial Number.

Device Wizard (Step 1/2)	
Device Type:	Additional Keyboard
Device Right:	L
Adding	Thunderbolt
Next	Infrared Dongle Parallal Port (LPT)
	Thin Client Storage (RDP Storage)
	Additional Keyboard
	USB Modern
	Android Smartphone (Media Transfer Protocol)
	Chip Card Device

• **Existing Device (Wizard)** – will allow at Step 2 to add devices previously connected to protected computers and already in the Endpoint Protector database.

Dev	vice Type	Device Name	Friendly Name	Description	VID	PID	Serial Number	Device Code	Last Computer	c
USB	3 Storage Device	USB_FLASH_DRIVE		USB_FLASH_DRIVE/LEXAR	5dc	a838	AA8BQLE0JHBEW55E	9073	LARISAL	
USB	B Storage Device	USB Mass Storage Device	n/a	USB Mass Storage Device/Western Digital Technologies, Inc.	1058	25e1	57583631413937524B55594E	716F	DESKTOP-RUIIOH9	
USB	8 Storage Device	USB Attached SCSI (UAS) Mass Storage Device	n/a	USB Attached SCSI (UAS) Mass Storage Device/ASMedia Technology Inc.	174c	5136	20000000A88	BC47	LARISAL	
USB	8 Storage Device	ASMT1053	n/a	ASMT1053/ASMEDIA	174c	55aa	123456789012	50DB	LARISAL	
USB	3 Storage Device	GOODRAM 16GB	n/a	GOODRAM 16GB/Wik	1f75	917	17060505003115	8F1F	Mojave's MacBook Pro	
USB	8 Storage Device	DATATRAVELER_2.0		DATATRAVELER_2.0/KINGSTON	930	6545	C8600088616CB0C1DA19FFB2	0E13	DESKTOP-RUIIOH9	
USB	B Storage Device	DATATRAVELER_3.0	n/a	DATATRAVELER_3.0/KINGSTON	951	1666	60A44C425324F260D9979085	1568	LARISAL	

 Device Serial Number Range – will allow at Step 2 to add multiple devices at the same time, by specifying the first and last Serial Number in the range. The recommended use for this feature is for devices that have a consecutive range, with a clear, noticeable pattern.

Device Wizard (Step 2/2)				
VID	PID	first Serial Number in the range	last Serial Number in the range	Description
Back Save				

**Note**: Although this feature can work in situations where the Serial Number range does not follow a noticeable pattern, this is not recommended. In this type of situation, some devices will be ignored by Endpoint Protector and the Custom Class will not have the expected effect.

• **Bulk List of Devices** – will allow at Step 2 to add up to 1000 devices at the same time. There are two methods to choose from, either importing a list or simply pasting the information.

Device Wizard (Step 2/2)		
Enrollment Options:	Type or Paste content	<ul> <li>Import content</li> </ul>
Devices:	e.g.: 5ac, 5b9, B8400111013000	0001, STORAGE_MEDIA
Back St	ave	

 Device Class (Device Type) – will allow at Step 2 to add a specific right to a Device Type. This option is intended to be used in scenarios when a very fast way to change all device types in the system but specific device rights were granularly added to some users or computers.

**Example**: For the case above, we created a Custom Class CD-ROM Allow and set Allow access rights to devices of type CD-ROM /DVD-ROM. Let's say that CD-ROMs have Deny access rights set on Client PC CIP0. Once the custom class CD-ROM Allow is created and

Custom Classes is enabled, all the CD-ROMs/DVD-ROMs will have access, even if on the Client PC CIP0 they have Deny access.

# 5.9. Priorities for device rights

Computer Rights, Group Rights, and Global Rights form a single unit and they inherit each-others settings. This means that changes to any one of these entities affect the other ones.

There are three levels of hierarchy: Global Rights, Group Rights, and Computer Rights, the latter being the deciding factor in rights management.

The device rights surpass all computer, group, and global rights.

The user rights are on the same level as the computer rights. The priority can be set from the System Settings section.

Note: For detailed information, refer to the **Department Usage** chapter.

Select an option to grant access for clients based on the Department Code. You can also view the Default Department code – defdep.

Note: For detailed information, refer to the System Departments chapter.Department Usage

Select an option to grant access for clients based on the Department Code.

You can also view the **Default Department** code - defdep.

Note: For detailed information, refer to the System Departments chapter.



## 5.9.1. Session Settings

You can modify the following session timeout settings:

- Session Timeout set the amount of time the user is inactive until the session expires between 5 and 60 minutes
- **Timeout counter** set the amount of time for the session timeout countdown between 5 seconds and Session Timeout minus one minute

**Example**: If you define the Session Timeout to 5 minutes and the Timeout counter to 60 seconds, then after 4 minutes of inactivity you will be notified by the pop-up window that in 60 seconds you will be logged out.
Session Settings		
Session Timeout (min):	5	0
Timeout counter (sec):	60	0
Save		

If you remain idle for the defined amount of time, then Endpoint Protector stops responding and displays a message that indicates the session will expire in the predefined countdown.

You can choose to log out or continue your session, resetting the session timeout interval.



Endpoint Protector Rights Functionality Endpoint Protector Rights Functionality



**Example:** Device X is allowed from Global Rights. If in the Computer Rights section, the same device does not have permission to be used, the device will not be usable. Same applies vice-versa: if the device lacks access permission globally, and has permission set per computer, the device will be allowed. The same applies for Global Rights and Group Rights: if

globally the device does not have permission to be used, and group permission exists, the device will be allowed.

## 5.9.2. Priorities for Device Control Policies

By default, only the Standard Device Control Rights are available. They include the Device Types and the Already Existing Devices sections.

Custom Classes can be defined. They represent a group of devices that have particular access right across the entire network. Custom Classes surpass the Standard rights.

If enabled, Outside Network and Outside Hours device rights can be configured. These surpass the Custom Classes rights.

The Offline Temporary Password rights allow the creation of exceptions from applied rules. These rights surpass all others.



# 6. Content Aware Protection

This module allows the Administrator to set up and enforce strong content filtering policies for selected users, computers, groups, or departments and take control over the risks posed by accidental or intentional file transfers of sensitive company data, such as:

- **Personal Identifiable Information (PII):** social security numbers (SSN), driving license numbers, E-mail addresses, passport numbers, phone numbers, addresses, dates, etc.
- **Financial and credit card information**: credit card numbers for Visa, MasterCard, American Express, JCB, Discover Card, Diners Club, bank account numbers, etc.
- **Confidential files**: sales and marketing reports, technical documents, accounting documents, customer databases, etc.

**Important**: Endpoint Protector cannot scan encrypted files or applications that use encryption to secure communication.

To prevent sensitive data leakage, Endpoint Protector closely monitors all activity at various exit points:

- Transfers on portable storage and other media devices (USB Drives, external HDDs, CDs, DVDs, SD cards, etc.), either directly or through encryption software (e.g., Enforced Encryption)
- Transfers on local networks (Network Share)
- Transfers via the Internet (E-mail Clients, File Sharing Application, Web Browsers, Instant Messaging, Social Media, etc.)
- Transfers to the cloud (iCloud, Google Drive, Dropbox, Microsoft SkyDrive, etc.)
- Transfers through Copy & Paste / Cut & Paste
- Print screens
- Printers and others

## 6.1. Content Aware Protection Activation

Content Aware Protection comes as the second level of data protection available in Endpoint Protector. The module is displayed but requires a simple activation by pressing the Enable button. If not previously provided, the contact details of the Main Administrator will be required.

**Note**: Any details provided will only be used to ensure the Live Update Server is configured correctly and that the Content Aware Protection module was enabled successfully.

Dashboard	« Content Aware Protect	tion - Activation							
Device Control	Activate Content Aware Pro	otection							
Content Aware Protection									
Dashboard <u>Content Aware Policies</u> Deep Packet Inspection	Endpoint Prote Ensure data transfers Endpoint Protector Cliv	Sector Content Aware Protection Triving Various editors and a more and a section of the section							
eDiscovery									
Denylists and Allowlists	In order to receive the latest features, fixe Alternatively, if you do not want to allow t Any details provided will only be used to e	is and additional information needs, the Endpoint Protector Server will communicate through a secure HTTPS connection to nowww.endpointprotector.com The Endpoint Protector Server to have full access to be internet, while the endpointprotector.com domain and ensure ports 80 and 443 are open for outgoing traffic. Insure the Live Update Server is configured correctly and that the eDiscovery Module was enabled successfully.							
Enforced Encryption	Live Update Server Information	1							
0ffline Temporary Password	Company:	a TestCompnay							
Reports and Analysis	Administrator:	1 Admin 🗸							
Alerts	E-mail:	test@cososys.com							
Directory Services	Phone:	↓ +123456789							
Appliance		Enable							
System Maintenance									
System Configuration									
System Parameters									
🧿 Support									

**Important**: The Content Aware Protection module is separate from Device Control or eDiscovery modules, and requires separate licensing.

## 6.2. Dashboard

This section offers a quick overview in the form of graphics and charts related to the Content Aware Protection module.



## 6.3. Content Aware Policies

Content Aware Policies are sets of rules for sensitive content detection that enforce file transfers management on selected entities (users, computers, groups, departments).

From this section, you can create a new policy, edit or delete an existing policy or create and apply a predefined policy.

**Example:** A Content Aware Policy can be set to only block Credit Cards AND Email Addresses. In this case, a file that contains a Credit Card AND an email address will be blocked, but if transferring a file that only contains Credit Cards, it will not be blocked.

Each company can define its sensitive content data lists as Custom Content Dictionaries corresponding to their specific domain of activity, targeted industry, and roles.

To ease this task, the Content Aware Protection module comes with a Predefined Content Dictionary that covers the most used sets of confidential terms and expressions.

**Example**: A policy can be set up for the Financial Department of the company to block Excel reports sent via E-mail or to report all transfers of files containing personally identifiable and financial information (e.g., credit card numbers, E-mail, phone numbers, social security numbers etc.).

**Note**: Content Aware Policies also apply to File Allowlist (Device Control > File Allowlist). This means that all files that were previously allowed will be inspected for sensitive content detection, reported, and/or blocked, according to the defined policy.

Exactly like Device Control policies, the Content Aware policies continue to be enforced on a computer even after it is disconnected from the company network.

One or more Content Aware Policy can be enforced on the same computer, user, group, or department. To avoid any conflicts between the applied rules, a prioritization of policies is performed through a left-to-right ordering. The leftmost policy has the highest priority (Priority 1), while the rightmost policy has the lowest priority. Changing priorities for one or more policies can be performed by moving the policy to the right or the left with a simple click on the left arrow for higher priority or on the right arrow for lower priority.

To manage the Content Aware Protection policies more easily, use the following options:

- switch between the Grid or Widget view options from the top-right corner
- use the **Top** button to assign the highest priority to a policy
- double-click on a policy from the **Priority** column to edit its priority



## 6.3.1. Policy Information

You can create up to 48 Content Aware policies.

To create a Content Aware Policy, provide the following information:

Note: Depending on the specific application and OS, some limitations may apply.

- **OS Type** select the operating system to which the policy applies, Windows, macOS, or Linux
- **Policy Name** add a name for the policy
- Policy Description add a description for the policy
- Policy Action select the type of action you want the policy to perform
  - **Block & Report** this policy will deny all transfers of data that include sensitive content and report the action
  - **Report only** this policy will allow all transfers of data that include sensitive content and will only report the action
  - **Block only -** this policy will deny all transfers of data that include sensitive content but not report the action
  - **o Block and Remediate** this policy will deny all transfers of data that include sensitive content but allow the user to remediate the action by using a justification

**Note**: Initially, we recommend using the **Report only** action to gain a better view of data use across your network and not interrupt your activity.

• **Policy Type -** select the policy type, Standard, Outside Hours, or Outside Network

**Note**: To enforce the Outside Hours and Outside Network options, after you save the policy, enable the setting on the specific device from **Device Control**, <u>Global settings</u>, Group or **Computers**.

- Policy Template select a custom notification from the drop-down list or create one from System Parameters, Device Types and Notification, <u>Custom Content Aware</u> <u>Protection Notifications</u> section
- Policy Status enable to set policy status to active
- Client Notifications enable this setting to send notifications to clients
- Global Thresholds if disabled, the threshold can be considered a Regular Threshold
- Threat Threshold type the number of maximum allowed content violations for a file transfer
- File size threshold enter the file size (in MB) starting from which the file transfer is either blocked or reported

**Note**: If a File Size Threshold is set, it will be applied to the whole policy, regardless of what file types or custom contents are checked inside the policy. The value used in the File Size Threshold must be a positive, whole number.

• **Apply Policy if File Size Threshold is Matched** – enable this setting to apply the policy in combination with the threshold. The content selected from the Denylist will be blocked taking into consideration the threshold.

#### Important: This setting does not apply for File Name and File Location.

**Note**: The Threshold option applies only to multiple filters, including Predefined Content, Custom Content, and Regular Expressions. As a general rule, it is recommended that Block & Report policies that use the Threshold should be placed with higher priority than Report Only policies.

## 6.3.1.1. Regular and Global Threshold Use Cases

1. Set a Block & Report policy with 4 threats, on the transfer of Social Security Numbers (SSN) for several Internet browsers.

The **Regular Threshold** set to 4 threats will block all transfers on the selected browsers which contain four or more individual SSN numbers, but it will not block the transfers with 1, 2, 3 x SSN instances.

In contrast to the Regular Threshold which blocks 4 or more threats of the same type, the **Global Threshold** blocks 4 or more threats of different types combined.

2. Set a Block & Report policy with 2 threats, on the transfer of a Social Security Number (SSN) and a Phone number.

The 2 threats will not be blocked by a Regular Threshold policy, only by one with a Global Threshold. On the other hand, 2 Social Security Numbers will be blocked by policies with both types of thresholds set at 2.

Policy Information					^
Details			Thresholds		
OS Type:	💿 Linux 🛆		Global Threshold:	ON O	
Policy Name:	Policy Name		Threat Threshold:	1	0
Policy Description:	Policy Description		File size threshold:	n/a	0
Policy Action:	Block & Report	~	Apply Policy if File Size Threshold is Matched:	OFF OFF	
Policy Type:	Outside Hours	<b>∽</b> ()			
Notification Template Policy Template:	Default Template	•			
Policy Status:	ON ●		Client Notifications:	ON O	

## 6.3.2. Policy Exit Points

You can monitor transfers from the following exit points:

## 6.3.2.1. Applications

- Web Browsers (e.g., Internet Explorer, Chrome, Firefox, Safari, etc.)
- E-mail (e.g., Outlook, Thunderbird, Lotus Notes, etc.)

**Important**: Universal Windows Platform applications, including the Windows 10 Mail application, run in an isolated environment, restraining the use of add-ons. This will prevent Content Aware policies with Windows Mail set as Exit Point to block restricted file transfers.

- Instant Messaging (e.g., Skype, Pidgin, Google Talk, etc.)
- Cloud Services / File Sharing (e.g., Google Drive Client, iCloud, Dropbox, DC++, etc.)
- Social Media / Others (e.g., iTunes, Total Commander, GoToMeeting, etc.)

**Note**: Select Adobe Flash Player from the Web Browser category to block sites that use Adobe Flash Active X.



### 6.3.2.2. Storage Devices

From the storage devices tab, you can select to monitor transfers:

- only to Custom Classes
- for all Storage Devices enable the Apply policy to all storage devices setting to enforce content policies on all storage devices, regardless of Custom Classes.

Note: For Windows, file transfers will be monitored both to and from removable media.

**Important**: On Linux the paste functionality only works when the default gnome session is Xorg. On other gnome sessions the paste functionality is disabled (ex: wayland).

olicy Exit Points					^
Applications Stora	ge Devices C	Doard 🗌 Network Share 🕄 🗌 Th	nin Clients 🕄 🗌 Print Screen 🕄	Printers	
G File transfers through st	orage devices will be in	cted for sensitive content. The option to	monitor only Custom Classes and no	ot all storage devices should be considered carefully.	
Apply policy to all storage	devices: OFF				
Custom Classes		Ð			
O Grand					
Sequen					

#### **Block CD/DVD Burning**

This feature is only available for Windows, built-in or third-party burning features.

To restrict the user from saving sensitive content on a CD or DVD using the built-in Windows features, follow these steps:

- 1. Create a Content Aware Policy;
- 2. From the **Policy Exit Points** section, on the **Storage Devices** tab, enable the **Apply policy to all storage devices** setting;
- 3. From the **Policy Denylist** section, select the threats you want the policy to detect.

To restrict the user from saving sensitive content on a CD or DVD using third-party applications, follow these steps:

- 1. Create a Content Aware Policy;
- 2. From the **Policy Exit Points** section, on the **Storage Devices** tab, enable the **Apply policy to all storage devices** setting;
- 3. On the Applications tab, from the Social Media/Others options, select the following:
  - CDBurnerXP
  - ImgBurn CD/DVD
  - InfraRecorder CD DVD
- 4. From the Policy Denylist section, select the threats you want the policy to detect

**Note**: The feature will apply to CD/DVD burning options **Like a USB flash drive** and **With a CD/DVD player**, using either **Drag and Drop** or **Copy and Paste** actions.

#### 6.3.2.3. Clipboard

The **Clipboard** functionality enables you to monitor all content captured through Copy & Paste or Cut & Paste operations.

**Note**: The Clipboard functionality applies only to confidential content that is defined inside the **Policy Denylists** section for the **Source Code** tab, **Predefined Content**, **Custom Content**, or **Regular Expressions**.

The Clipboard functionality provides a certain degree of granularity and can be enabled:

• **Clipboard** – enable this setting to monitor all content from a computer, regardless of the defined exit points.

#### Note: This setting only applies to Copy operations.

When performing a **Copy** operation, the Endpoint Protector Client will inspect the clipboard content and if confidential information is detected, the content **will be deleted**. As such, the **Paste** operation will not work because the clipboard content was deleted.

• Source code - enable this setting to detect the defined in the policy.

#### Note: This setting applies to Copy or Paste operations.

The Endpoint Protector Client will inspect the clipboard content for source codes and if source code is detected and monitored in a Content Aware policy (e.g., C++ is selected in a Content Aware policy, and the detected clipboard content is C++) the content **will be blocked** on a **Copy** or **Paste** operation (depending if the **Apply Paste restrictions to all monitored applications** settings is enabled)

• **Detect Images** – enable this setting to detect copying images to clipboard

The following image types will be targeted:

- 1. print screen type images the content is automatically blocked
- 2. image files copied with CTRL+C shortcut and pasted to clipboard (this will paste the file URL to clipboard)

## **Note:** If multiple files are copied and the content contains at least one image, the file content will be blocked.

Similar to code source detection, the Detect images setting applies if the file type is blocked in Content Aware Protection policy (if the user will copy a PNG file, the file will be blocked if the PNG file type is checked in the Content Aware Protection policy).

The Endpoint Protector notifier will save the content of an image in a temporary location, which will be moved if shadow is enabled or deleted if not after scan.

• To inspect certain applications and set Paste restrictions, enable the **Apply Paste** restrictions to all monitored applications setting

#### Note: This setting restricts the Paste operations for the defined Policy Exit Points.

When performing a **Copy** operation, the Endpoint Protector Client will inspect the clipboard content and if confidential information is detected, the **content will be allowed**, instead, it will **block** a **Paste** operation if the application is monitored in a Content Aware policy.

**Important**: The Paste operation is allowed when the user changes the window to other applications.

**Example**: In a Content Aware policy, Firefox is monitored, Chrome is not monitored and the Apply Paste restrictions to all monitored applications setting is enabled. The user performs a Copy operation from Notepad which contains confidential information, then:

- o The Paste operation on Firefox is blocked
- o The Paste operation on Chrome is allowed
- To inspect extended applications and set Paste restrictions, enable the **Extend Paste** restrictions to bellow applications setting

Note: This setting restricts the Paste operation for the defined applications.

Use this setting to extend the applications not listed in a Content Aware policy and **block** the **Paste** operations.

**Example**: Microsoft Word is not listed in a Content Aware policy, but you can select the application from the list to monitor the **Paste** operation on the Microsoft Word app.

On-demand, Endpoint Protector can add other applications.

**Important:** On certain Linux environments, like those utilizing Wayland protocol by default, paste control is limited due to Wayland's lack of support for detecting the focused window. To ensure security, content blocking occurs during the copy operation.

Policy Exit Points		^
Applications Storage Devices	Clipboard	Network Share 🕄 🗌 Thin Clients 🕄 🗌 Print Screen 🕄 🗌 Printers 🕄
Restricts users from copy-pasting confid	ential information	n. Please ensure you enable predefined and custom content, etc
Clipboard:		
Detect Source Code:		
Detect Images:		
Apply Paste restrictions to all monitored app	lications:	ON O
Extend Paste restrictions to below application	ns:	
Notepad         Microsoft Word         Microsoft Excel         Microsoft PowerPoint         Microsoft Access         Microsoft OneNote         Notepad++         Sticky Notes         Command Line         Sticky Notes Legacy         Q		

**Important:** Newer Linux Ubuntu versions have 'snap'-based applications installed by default, affecting EPP Client functionality. This may result in missing file-related events in CAP scans. The reliance on 'snap'-based applications also affects file-related web browser

activities, exacerbating this limitation. Consider non-'snap'-based applications (where possible) as alternative configurations for optimal functionality.

- 1. **Network Share** Endpoint Protector will report all the events for Report Only policies for macOS. For Block & Report policies the transfer from a Local Share towards the Local Disk, Controlled Storage Device Types, and Controlled Applications are blocked.
- 2. Thin Clients applies to file transfers to thin clients drives.
- 3. **Print Screen** applies to the screen capture options.
- 4. **Printers** apply to both local and network shared printers.

**Note**: When enabled, it is recommended to enable the **Advanced Printer** and **MTP Scanning** option in **Settings** (Global, Groups, Computers, etc.)

### 6.3.3. Content Detection Summary

The Custom Detection Summary displays all predefined content, custom content, regular expressions, and HIPAA which were checked in the Content Aware Policy.

You can use the **Content Detection Rule** to define the policy by combining multiple criteria using the operators **AND**, **OR**.

To edit a Content Detection Rule, click **Edit** and then, on the **Define operation** section, provide the following information:

- Select operator OR (default), AND
- Enable **Threshold** and type the number adjacent to each entry from 1 to 1000; this will disable the **Global Threshold** setting from the **Policy Information** section.
- Add item and select from the drop-down a PII; before saving the operation, you can change PIIs by selecting from the drop-down list. To delete an entry from the list, click x adjacent to each PII.
- Add group

Use the up and down arrows or drag and drop an entry from the list to change the order from the operation.

Content Detection Summary	^
Content Detection Rule	
Personal Identifiable Information/UK Electoral Number OR Personal Identifiable Information/VIN OR Bank Account/ABA Routing Number	
Define operation	
AliD OR Threshold: ON + Add item • Add ()	
It         Personal Identifiable Information/UK Electoral Number •         1	
- It Personal Identifiable Information/VIN - 1	
Image:	
Save Cancel	

To **Restrict Content Detection**, select from the drop-down list the file types you want to apply the Content Detection Rule to.

If no file type is set, the content defined in the content Detection Rule will be searched in all the file types that are not blocked by this policy.

The **Context Detection Rules** allows you to specify the minimum or maximum number of contexts matches for one or more threat types previously defined in the **Content Detection Rule** and reducing false positive detections.

**Important**: You can create Context Detection Rules only if you define a **Content Detection Rule** using an **OR** operator.

To create a new Context Detection Rules click Add, fill in the following and then Save:

- Name add a name for the context detection rule
- Apply Contextual for Items select from the drop-down list the predefined content selected in the Content Detection Rule
- **Proximity** add a number between 50 and 3000
- Included Context select the AND/OR operator and then select from the drop-down list the custom content, RegEx or HIPPA you want to be included in the rule
- **Excluded Context** select the AND/OR operator and then select from the drop-down list the custom content, RegEx or HIPPA you want to be excluded from the rule

**Note**: Custom content used in Content Detection rules will not be displayed in the included and excluded context drop-down lists.

 Apply context rule for - select if you want to apply the rule to All items or At least 1 item.

Note: You can create a maximum number of 15 Context Detection Rules.

ntext Detection Rules							
Show 10 v entries							
Name 🔶 Items 🔻	Included Context	Excluded Context	\$	Proximity 🔶	Scope	Actions	
		No matching r	ecords found				
Showing 0 to 0 of 0 entries						Previous	Next
Add							
Name:	Rule	✓	Included Context:	AND OR	× Custom Content/US Driv	ring License	<ul> <li>✓</li> </ul>
Apply Contextual for Items:	Credit Card/Amex     Credit Card/Diners (Carte Blanche)	<ul> <li>✓</li> <li>–</li> </ul>	Excluded Context:	AND OR	× Regexp/Default Regular	Expression	*
Proximity:	51	✓	Apply context rule for:		All items		Ŧ
Save Cancel							

**Important:** To address conflicts between per-policy and Global Contextual Rules, EPP clients no longer receive Global Contextual Rules if at least one policy has its individual Contextual Rule set. This marks the deprecation of Global Contextual Rules, emphasizing the prioritization of individual policy configurations.

#### 6.3.4. Policy Denylists and Allowlists

The policy denylist and allowlist specify the content to be detected – it includes file type filtering, predefined content filtering, custom content filtering, file allowlists, regular expressions and domain allowlists, deep packet inspection, etc.

#### 6.3.4.1. Policy Denylists

You can use the following Denylists:

• File Type - since many files (e.g.: Programming Files) are actually .TXT files, we recommend more precaution when selecting this file type to avoid any unexpected effects.

**Note**: File type detection will not always work accurately for some very large password-protected Microsoft Office files.

 Source Code - An N-gram based detection method is used to increase the accuracy of these file types. However, as various source code is closely linked together (e.g.: C, C++, etc.), these also are checked. To make things easier, Endpoint Protector automatically marks these correlations.

When the Deep Packet Inspection is enabled an extended way to monitor Git is available. If Git is selected from the Restricted Apps, Git-related actions (fetch, clone, push, pull) will be blocked, regardless of the git application used. This will result in completely blocking Git. However, Deep Packet Inspection Allowlists can be used to allow a specific Git, linked to a specific domain (e.g.: internalgit.mydomain.com).

**Note**: All Git traffic is encrypted therefore, allowing a specific domain will result in any file transfers to be allowed, regardless of content or other policy restrictions defined.

If Git is selected from Restricted Apps, no Endpoint Protector client notifications and logs will be generated for the Git-related actions (fetch, clone, push, pull).

• **Predefined Content** - the majority of the Predefined Content items are country-specific (e.g. Australia, Canada, Germany, Korea, United Kingdom, United States, .etc.). To avoid a large number of logs or potential false positives, only enable the Passports that apply to your region or sensitive data.

#### Italian SSN and ID usage

Starting with Endpoint Protector server version 5.7.0.0, Italian SSN is added to the PII list. Similar to Italian ID, if selected from the list of PIIs, the SSN will detect the same entity.

When using Italian SSN and ID, we recommend you upgrade to the latest Endpoint Protector agent version.

To maintain compatibility with older agent versions after the server upgrade, Italian ID will remain under section ID and server upgrade will retain previous settings, including Italian ID.

- o Use Italian SSN when deploying to agent versions xxx and later
- o Use Italian ID when deploying to agent versions xxx and earlier
- o Use both Italian SSN and ID for a mixed environment of new and older agent versions

Because the Italian SSN and ID detect the same entity, do not select Italian ID to avoid multiple reporting results.

The new Endpoint Protector agent versions will report on both Italian ID and SSN.

- Custom Content
- File Name
- File Location
- Regular Expressions
- HIPAA
- Domain and URL

File Type         Source Code         Predefined Content         Cust           O         Depending on the policy settings, if selected, the file types listed below         Select all file types	om Content File Name Regular Expression HIPMA will be automatically reported or reported and blocked.	Domain and URL Applications	
Graphic Files  Sect al Graphic Files types  Sec  Sec  ORLDBAR  CORLDBAR  COR	☐ PNS ☐ TIF ☐ DV ☐ 899	_ GF _ CCM _ EF5 _ MAYA 30 ●	IOD COELE PHOTO-PAINT ADDRE ILLUSTRATOR PBD
Office Files Select all Office Files hypes Office Files hypes UNOROD HARDWATH NVORK FILES	☐ DICEL ☐ OUTLOOK ☐ OFFICE2001+/PASSWORD	☐ POWERFORMT ☐ POBLISER ☐ PROJECT	CSV
Archive Files           Seta: all Archive Files types           2 ZP           PAR           B22	☐ ZIPIPASSWORD ☐ ACE ☐ ACE/PASSWORD ☐ GZ	77. TAR RAR/PUSSWORD	☐ 72/MAGBWORD ☐ X2 ☐ ASIC CONTAINER ♥
Other Files           Instrict all other Files types           Instrict Files           ACC08           OTA           OTA           Instrict Files           Instrict Files	☐ 344./ DTD ☐ DOURNAL FLES ☐ DDF ☐ PPP_ DEKENPTED FLES ☐ N455A (1644 ☐ 5500 ☐ 550	DRM FLES     SQ     CQR     FQL     P12     SQY     SQY     VMDK	EXE. 5%. DLL     UNDERTIFIED     DUCOM     HIS STREMS 0     ROV 0     SONOC     XUA

#### 6.3.4.2. HIPAA compliance

Any Content Aware Protection policy automatically becomes a HIPAA policy if any options from the HIPAA tab are selected. The available options refer to FDA-approved lists and ICD terms. These will automatically report or block transfer files containing PII like Health Insurance Numbers, Social Security Numbers, Addresses, and much more.

Policy Denylists	
The Tanan Causer Code Development Content Content Circles Pressive Description (UTDA) Denvis and (D) Ampleotics	
гне туре Зобле Собе глебение Солсенс Сазонн Сонсенс гне наше Кедина Схртеззонт ПСРАК Облавна на ОКС Аррисацонз	
🖓 Consider applying Contextual Detection Rules in HIPAA policies, encompassing essential PIIs such as addresses, phone numbers, emails, and custom dictionaries.	
PDA recognised pharmaceutical firms 😡	FDA recognised pharmaceutical prescription drugs (branded)
🗌 FDA recognised pharmaceutical prescription drugs (generic) 🕢	
○ 1CD-10 terms ④ ○ 1CD-9 terms ④	🔿 ICD-11 terms 😡

Note: For a HIPAA policy to be effective and more accurate, it is recommended to utilize Contextual Detection Rules in conjunction with Predefined Content and Custom Content filters. To enhance precision, users should also enable 'Whole Word Only' under Custom Content.The ICD-11 dictionary focuses solely on specific terms, not insurance codes.

Note: It is advisable to set appropriate thresholds and combinations of arguments to minimize false positives for shorter disease descriptions

### 6.3.4.3. Policy Allowlists

You can use the following Allowlists:

- MIME Type
- Allowed Files
- File Location
- Network Share
- E-mail Domain

- URL Name
- Deep Packet Inspection

**Note**: For detailed information on Denylists and Allowlist, refer to the **Denylists and Allowlists** chapter.

**Important**: The Content Aware Protection Policies continue to report and/or block sensitive data transfers from protected computers even after they are disconnected from the company network.

Logs will be saved within the Endpoint Protector Client and will be sent to the Server once the connection has been reestablished.

Policy Allowlists			^
MIME Type Allowed Files E-mail Domain Deep Packet Inspection			
The MIME Types listed below will be automatically excluded from scanning. The MIME Type	Allowlists apply globally and not per Policy To edit File Types: Go to MIME Type Allowlists		
Graphic Files	Imp 100	I GIF	F2 100
BNP	□ TIFF 2 DW 2 PSD	CORELDRAW COREL PHOTO-PAINT MAYA 3D	WEBP
ADOBE INDESIGN			
Office Files	T EXCE		
OUTLOOK OFFICE2003+/PASSWORD	DUBLISHER CSV	INFOPATH WORK FILES	PROJECT
Archive Files			
ZIP RAR RAR/PASSWORD	ZIP/PASSWORD ACE XAR	7Z     TAR     ACE/PASSWORD	Z2/PASSWORD     Z     XZ     ASIC CONTAINER
B22	🖾 GZ		
Source Code			
C BATCH FILE	C++	DAVA	POWERSHELL     TEX
PASCAL ASSEMBLY	GRITRAN	SHELL SCRIPT	MAKEFILE PERL
CSS	R HTML	SWIFT	LUA RUBY
C# IOS APPLICATION	OCAML HASKELL	DMP SCALA	LLSP
60	OBJECTIVE-C	MATLAB	VISUAL BASIC SCRIPT
Other Files			
TEXT FILES	XML / DTD	UNIDENTIFIED	DRM FILES
SGWGC	.ACCDB CSR	SEGD PGP	DICOM EPP_ENCRYPTED FILES
RODE	XIA	BDF	NASCA DRM
DTA	SSD SSD	P12	HUE STREAMS
Media Files			
NOV	AVI	M44,MP4	NAV NAV
WEBM	MOF	MATROSKA	

## 6.3.5. DPI Monitored URL Categories

You can define the monitored URL categories the Deep Packet Inspection will filter. If none is selected, Deep Packet Inspection will filter all content uploaded for any URL.

You can add, delete and edit URL Categories from the Denylists and Allowlists section.

DPI Monitored URL Categories			
DPI filtering will be limited only to the Monit	ored URL Categories :	selected below. If none is selected, we will filter all conte	t uploaded for any URL. To add, delete and edit URL Categories: Go to URL Categories
Categories		Monitored Categories	
Url CAt 1		EPP will filter all URL Categories if this list is empty.	
Q Search		Q Search	

## 6.3.6. Policy Entities

The final step in creating a policy is selecting the entities that it will apply to from the available ones:

- Departments
- Groups
- Computers
- Users

**Note**: If a Content Aware Policy was already enforced on a computer, user, group, or department, when clicking on it, the corresponding network entities on which it was applied will be highlighted.

You can also define a list of entities that will be excluded from the policy by selecting from the Excluded section.



## 6.3.7. Block and Remediate Policies

Block and Remediate policies are a category of Content Aware Policies. This category of policies gives the end-user the possibility to resolve the Content Aware threats by using justifications.

You can create Block and Remediate Content Aware Policies from the Content Aware Protection section, Create Content Aware Policies, Policy Action, Block and Remediate.

When detected, Content Aware threats are displayed:

- in the Endpoint Protector notifier, the Content Aware tab
- as pop-up notifications if this option is enabled from the **Settings** section

To remediate the threat, the user has to follow these steps:

- 1. Open the Endpoint Protector notifier and go to the Content Aware Protection tab;
- 2. Select the file for remediation and click Self Remediate;

🚦 Endpo	int Protector Client Version 5.7.4.6	j					$\times$
	ENDPOINT PROTECTOR						
	Device Control	Content Aware Protection	Settings				
				Search		٩	
	File name			Threat	Application	Date / Time	
	3rd.png			file-type	Google Chr	2022-05-18 11:11:28	
	2nd.png			file-type	Google Chr	2022-05-18 11:11:21	
	1st.png			file-type	Google Chr	2022-05-18 11:11:11	
To a Ren	uthorize the data transfer, plea nediate.	ise Request Access from your admini	strator or click Self	Request Access	s	elf Remediate	
Last se	ver connection: 2022-05-18 11:1	0:23					

- 3. On the **Self Remediate** section:
  - a. select a justification from the drop-down list
  - b. add a reason for the justification (if required)
  - c. navigate to the custom URL situated under the logo
  - d. add your credentials if the **Require Credentials** setting was enabled (click the username icon to refresh your current username)
  - e. add the **number of minutes** needed to remediate the device (you can hover over the default number to view the maximum time interval)
  - f. click Authorize

**Note**: You can manage more settings for the Self Remediate feature from System Preferences and <u>User Remediation</u> sections.

User Remediation for Content Aware Protection can remediate file transfers via web domains.

To apply User Remediation on specific web domains, enable Deep Packet Inspection from Global/Computers/Users/Group. This feature will then be enabled by default for Browsers and Desktop Email applications.

For other applications, you need to manually enable Deep Packet Inspection from the Content Aware Protection module, the Deep Packet Inspection section, on the Act

oint Protector Client Version 5.7.5	.0					
PROTECTOR by CoSoSys	3					
Device Control	Content Aware Protection	Settings				
						Ī
Self Remediate					$\sim$	
	Content Threat Blocked	. File contains confidential inform	ation.			
	File Name: Web Upload You can override this polic	cy by selecting a justification:				
	I have management appr	oval to complete this action				
	Include justification reaso	ons. (Optional)				
Example						
	Ø John-PC\John		A Password			
Override the security policy for	15 minutes.			Cancel Author	rize	
	Time interval can be set up to	30 minutes.	_			
erver connection: 2022-05-24 12	48:08					

ions column.

• When Deep Packet Inspection is enabled – you can apply User Remediation for files transferred on a specific web domain.

E.g., If you upload a file on uploadsite.com and apply User Remediation, you can only upload on uploadsite.com, not on otheruploadsite.com.

• When Deep Packet Inspection is disabled – you can only apply User Remediation for files transferred on a specific application.

E.g., If you upload a file on Chrome and apply User Remediation, you can upload the file on any URL from Chrome.

<b>(</b>	Dashboard	«目 Content Aware Protection - Deep Packet Inspection								
Ð	Device Control	Deep Packet Inspection Applications								
P	Content Aware Protection	Filters  Show 10 v entries Excel POP CSV Show/Hide Columns Reload								
	Dashboard Content Aware Policies Deep Packet Inspection									
	eDiscovery	Name $rightarrow vertex vertex$	Туре	О5 Туре	DPI 🔶	Actions				
	Denylists and Allowlists	OneDrive for Business	Cloud Services / File Sharing	Windows	Disabled	:=				
0	Enforced Encryption	Microsoft Teams	Cloud Services / File Sharing	Windows	Disabled	Enable DPI				
	Offline Temporary Password	OneDrive	Cloud Services / File Sharing	Windows	Disabled					
		Microsoft Teams	Cloud Services / File Sharing	Mac	Disabled	:=				
	Reports and Analysis	Microsoft Teams	Cloud Services / File Sharing	Linux	Disabled	:=				
	Alerts	OneDrive for Business	Cloud Services / File Sharing	Мас	Enabled	:=				
Ō	Directory Services	OneDrive	Cloud Services / File Sharing	Мас	Disabled	:=				
	Appliance	Mail	E-mail	Mac	Enabled	:=				
¥.	System Maintenance	Geary	E-mail	Linux	Enabled	:=				
a	System Configuration	Tobit David	E-mail	Windows	Enabled	:=				
	System Parameters	Showing 1 to 10 of 90 entries		Pri	evious 1 2 3	4 5 9 Next				
	Support					Back				

You can view the web domains used for the **User Remediation** in the **Endpoint Protector Client**, the **Content Aware Protection** tab on the **Web Domains** column.

•••	1	Endpoint Protector	Client Version 2	2.7.0.9		
	ENDPOINT   by CoSoSys PROTECTOR					
	Device Control	Content Aware Protection	S	ettings	Tro	ubleshooting
			Sea			Q
	File name		Web domain	Threat	Application	Date / Time
8	local group1.png		fs03u.sends	file-type	Safari	2022-09-21 14:17:06
8	Clipboard		N/A	e-mail	N/A	2022-09-21 14:13:53
8	Web Upload		dlptest.com	file-type	Safari	2022-09-21 14:12:19
8	Web Upload		dlptest.com	file-type	Safari	2022-09-21 14:12:07
To : fror	authorize the data transfer, please n your administrator or click Self I	a Request Access Remediate.	Re	equest Access	Se	If Remediate
Last ser	ver connection: 2022-09-21 14:16:54	4				

## 6.3.8. Applying multiple Content Aware Policies

Content Aware Protection is a very versatile tool, where you can perform the granular implementation of actions regarding the report and/or block and report of files.

A Content Aware Policy is a set of rules for reporting or blocking & reporting the selected information. All the other options left unchecked will be considered as Ignored by Endpoint Protector.

When applying two policies to the same PC, it is possible to block one type of file, for example, PNG files, when they are uploaded through Mozilla Firefox, while a second policy is to report only PNG files when they are uploaded through Internet Explorer. In the same way, it is possible to report only files that contain confidential words from a selected dictionary that are sent through Skype, while the second policy is to block the same files if they are sent through Yahoo Messenger. Similarly, it is possible to create combinations that block a file type or a file that contains predefined content/custom content/regular expression for one application, while letting it through reporting it only for another.

The following rules are used in the application of one or more Content Aware Policies on a computer/user/group/department for each separately selected item (e.g., a specific file type, predefined information, or a custom content dictionary):

Policy A with Priority 1	icy A withPolicy B withPolicy C with Priority 3prity 1Priority 2		Endpoint Protector Action			
IGNORED	IGNORED	IGNORED	Information blocked or re	will not ported.	be	
IGNORED	IGNORED	REPORTED	Information reported.	will	be	
IGNORED	REPORTED	REPORTED	Information reported.	will	be	
REPORTED	REPORTED	REPORTED	Information reported.	will	be	
IGNORED	IGNORED	BLOCKED	Information blocked.	will	be	
IGNORED	BLOCKED	BLOCKED	Information blocked.	will	be	
BLOCKED	BLOCKED	BLOCKED	Information blocked.	will	be	
IGNORED	REPORTED	BLOCKED	Information reported.	will	be	
IGNORED	BLOCKED	REPORTED	Information blocked.	will	be	
REPORTED	IGNORED	BLOCKED	Information reported.	will	be	
BLOCKED	IGNORED	REPORTED	Information blocked.	will	be	

REPORTED	BLOCKED	IGNORED	Information reported.	will	be
BLOCKED	REPORTED	IGNORED	Information blocked.	will	be

**Important**: The information left unchecked when creating a policy will be considered as Ignored by Endpoint Protector and not as Allowed.

The deep packet inspection feature has been expanded to e-mail scanning based on domain allowing.

👩 Dashboard	« Content Aware Protection - Edit Policy	* E Content Aware Protection - Edit Policy						
Device Control	Policy Denylists	olicy Denylists						
Content Aware Protection Dashboard <u>Content Aware Policies</u> Deep Packet Inspection	File Type Source Code Predefined Content	Custom Content File Name Regular Expres	sion HIPAA Domain and URL regulations like PCI DSS, GDPR and HIPAA. A 100% accuracy can	not be guaranteed and items marked with * are known to generate false positives.				
eDiscovery	Credit Cards							
Denylists and Allowlists	Amex Discover Magnitum	Diners (Carte Blanche) JCB Visa	Diners Mastercard	China UnionPay				
O Enforced Encryption								
Offline Temporary Password	Personal Identifiable Information	SWIFT	Date	E-mail				
Reports and Analysis	128N							
Alerts	Address	🗆 Colombia 🚯	Germany 🚯	🗆 India 🚯				
Directory Services	Ireland 🚯	🗖 Japan 🚯	Poland	🔲 United Kingdom 🚯				
Appliance	SSN							
System Maintenance	Austria Germany	Canada	Cyprus Hungary	France India				
System Configuration	Ireland	Dapan Poland	Korea	Luxembourg				
System Parameters	Span	United States	Switzenand	Tatwen				
Support	ID							
	Albinia Chie Caudo Commany Straet Uturusia Prou South Africa Chim Maintand	belgium     Cratia     Cratia     Biztraia     Grece     Taby     Mataysia     Paland     Masae	Drasti     Crech     Früard     Früard     Iseland     Kazahrbrän     Mexico     Portugal     Turkey     Hong Kong	Bulgaria     Demask     Fisica     force     Labia     Lobia     Singapore     UKE				
	Passport	Canada	Finland	France				

A recommended HIPAA should be considered a Content Aware Policy that, besides the options in the HIPAA tab, also has the below configuration:

- All the File Types recognized should be included.
- All Personal Identifiable Information should be Country Specific to the United States (Address, Phone/Fax, and Social Security Numbers)
- Both Internet Protocol Addresses Access should be selected
- The URL and Domain Allowlists options should also be checked

HIPAA policies can be created and used on their own or in combination with regular policies, for better control of the data inside the network. These policies are available for Windows, Mac OS X, or Linux computers.

<ul> <li>Priority 1 </li> <li>File Type - Archive Files</li> </ul>	Priority 2      HIPAA - Diagnosis     Lexicon &PIIs	♦ Priority 3 ▶ PCI DS5 - Credit Cards	Priority 4     Test Policy
Block archive file transfers to all destinations	Block ICD codes, diagnosis lexicon and personally identifiable information transfers to all destinations	Block credit number transfers to all destinations	Test
		ON	OFF

#### 6.3.8.1. Example: Use Case Nr. 1

Suppose that Company X handles patient medical records that come in electronic formats and which contain general information such as Patient Name, Address, Birthdate, Phone number, Social Security Number, and E-Mail address. The company would like to block the transfer of this data through all the common Windows desktop applications.

Knowing that the sensitive data comes in the format of a profile per patient, the administrator can create a HIPAA policy like the one shown below:

0	Dashboard	« Content Aware Protect	Content Aware Protection - Edit Policy						
Ū	Device Control	Policy Information	icy Information						
	Content Aware Protection	Details			Thresholds				
	Dashboard Content Aware Policies	OS Type:	<ul> <li>Windows </li> </ul>		Global Threshold:	OFF			
	Deep Packet Inspection	Policy Name:	Test Win		Threat Threshold:	1	0		
	eDiscovery	Policy Description:	Policy Description		File size threshold:	n/a	0		
	Denylists and Allowlists	Policy Action:	Block & Report	~					
0	Enforced Encryption	Policy Type:	Standard	<b>~</b> 0					
	Offline Temporary Password	Policy Status:			Client Notifications:	ON D			
	Reports and Analysis	Tony outers							
	Alerts	Policy Exit Points					*		
ō	Directory Services	Policy Denylists					^		
	Appliance								
YI	System Maintenance	File Type Source Code	Predefined Content Custom Content	File Name Regular Exp	Difference of the second secon	and URL			
٢	System Configuration	A HIPAA Policy should include PIIs	like addresses, phone and fax numbers, emails and	custom dictionaries. Please make sur	re you include them from the previous ta	bs.			
	System Parameters	<ul> <li>FDA recognised pharmaceutical</li> <li>EDA recognised pharmaceutical</li> </ul>	irms 🕢		FDA recognised pharmaceutical p	rescription drugs (branded) 🕔			
	Support		n ener theory of olds (Berley of						
		<ul> <li>ICD-10 codes and diagnosis lexit</li> </ul>	on 🕢		O ICD-9 codes and diagnosis lexico	n 🕓			
		Policy Allowlists					*		

This policy is set on Block & Report with a Global Threshold of 4. It scans the Controlled Storage Device Types (which can be inspected from the System Parameters > Device Types), the Clipboard, and the Network Share as well as all the database of applications recognized by Endpoint Protector. This policy will ONLY block the transfer of those files which contain 4 or more of the PII's selected inside the policy. All the files which happen to contain just 1 Address or 2 Phone Numbers or 2 E-mails will be transferred

### 6.3.8.2. Example: Use Case Nr. 2

Company Y has a large database of patients' sensitive information. This information is stored in individual office files which contain ten (10) or even more Personal Identifiable

Information (PII) items per patient. Other than these files, the company's staff regularly uses some file that contains three (3) of the same PIIs per file. Company Y would like to block the leakage of the files database from its database that contains 10 or more items yet only report the transfer of the files containing 3 items.

You can set up a policy that will block the transfer of files containing 10 PIIs by using a Global Threshold of 10, like in the policy shown below:

Policy Information				^
Details		Thresholds		
OS Type:	● Windows 🛍 🔿 macOS 🗯 🔿 Linux 🔬	Global Threshold:	ON O	
Policy Name:	Policy Y 🗸	Threat Threshold:	10 🗸	•
Policy Description:	Policy that blocks 10 or more PIIs	File size threshold:	n/a	8
Policy Action:	Block & Report			
Policy Status:		Client Notifications:	OFF	

Another HIPAA policy can be used to report the transfer of files that contain 3 items of the same kind by using a Regular Threshold set at 3, like the below-shown example:

Policy Information				^
Details		Thresholds		
OS Type:	● Windows 🛍 🔿 macOS 🗯 🔿 Linux 🖉	Global Threshold:	OFF	
Policy Name:	Policy Y 🖌	Threat Threshold:	3	6
Policy Description:	Policy that reports 3 or more of the same PIIs	File size threshold:	n/a	0
Policy Action:	Report only			
Policy Status:		Client Notifications:	OFF )	

The Block & Report policy will have the priority while the Report Only policy will be the second.

## 6.4. Deep Packet Inspection

The Deep Packet Inspection functionality provides a certain degree of granularity, allowing you to fine-tune the content inspection functionality to the network specifications.

**Note**: Enabling Deep Packet Inspection could impact upload speed of inspected files. Use our network extension instead of Packet Filter as a possible workaround (i.e., turn Intercept VPN Traffic on).

**Important:** Newer Linux Ubuntu versions have 'snap'-based applications installed by default, affecting EPP Client functionality. This may result in missing file-related events in DPI file resolution. The reliance on 'snap'-based applications also affects file-related web browser activities, exacerbating this limitation. Consider non-'snap'-based applications (where possible) as alternative configurations for optimal functionality.

## 6.4.1. Deep Packet Inspection Certificate

The Deep Packet Inspection functionality uses Certificates generated from Endpoint Protector Root Certificate Authority to intercept network traffic by Deep Packet Inspection and for Client-Endpoint Protector Server communication.

Endpoint Protector offers the option to automatically refresh Certificates with various scheduling alternatives. After a new Certificate is generated, it will be sent in to the Client and replace the existing one.

To configure **Deep Packet Inspection - Auto-refresh Certificate** feature, please reference the following steps:

- 1. Go to System Configuration, System Settings, Deep Packet Inspection -Auto-refresh Certificate and chose Automatically option
- 2. Choose one of available scheduling options and **Save** changes.
- 3. New Certificate will be distributed automatically to the endpoints after it is generated.
- 4. Reboot of the endpoint is required to enforce a new Certificate.

🕥 Dashboard	«目 Default System Settings		
Device Control	Show VID, PID and Serial Number for Offine Temporary Password		
Content Aware Protection	Show MAC Address For Offline Temporary Passwords Show User Domain	2	
eDiscovery	MAC Address Priority:	0	
Denylists and Allowlists	Show Universal Omine Temporary resolved only to Super Admins	U	
Enforced Encryption	Maximum number of rows for CSV export (Million):	1.0	
Offline Temporary Password	Enable Reporting V2:	On	
Reports and Analysis	Max no. of reported threats per event:	1000	
Alerts	Content Aware Protection - Ignore Thresholds		
Directory Services	Ignore Thresholds: Maximum number of reported threats:	On 0	
🗔 Appliance	Virtual Desiston Clones		
😢 System Maintenance	Virtual Desktop Clones Support:		
System Configuration	Deep Packet Inspection Certificate		
Client Software Client Software Upgrade	Deep Packet Inspection Certificate download :	On	
Client Uninstall System Administrators	Download Client CA Certificate		
Administrators Groups System Denartments	Deep Packet Inspection - Auto-refresh Certificate		
System Security	🔿 Manually 💿 Automatically		
System Licensing	One time Starts	=	
E System Parameters	O Weekly Norths:	× January × April × July × October v	
Support	Monthly     Oays:	*	
	⊖ on:	× ×	

## 6.4.2. Deep Packet Inspection Certificate on macOS

Due to the latest changes in the macOS 11.0 that affect Deep Packet Inspection, a new Root Certificate is needed in order for the Deep Packet Inspection feature to work on the mentioned macOS version.

**Note**: Deep Packet Inspection will only work on macOS 11.0 and newer if Deep Packet Inspection Certificate is added for the Endpoint Protector Client.

This certificate can be downloaded from System Configuration, System Settings, and Deep Packet Inspection Certificate and added manually or automatically through deployment solutions.

To add it manually, follow these steps:

1. Go to System Configuration, System Settings, Deep Packet Inspection Certificate, and download the CA Certificate.

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0	Dashboard	« Default System Settings				
Ð	Device Control	Custom Settings				
Ð	Content Aware Protection	Show VID, PID and Serial Number for Offline Temporary Password:				
	eDiscovery	Show MAC Address For Offline Temporary Password:	0			
		Show User Domain:				
	Denylists and Allowlists	MAC Address Priority:				
0	Enforced Encryption	Virtual Desktop Clones				
	Offline Temporary Password	Virtual Desktop Clones Support:				
	Reports and Analysis	Deep Packet Inspection Certificate				
	Alerts	Deep Packet Inspection Certificate download :	On			
	Directory Services	Download Client CA Certificate				
	A R	Single Sign On				
	Appliance	Enable Single Sign On Login:				
I	System Maintenance	Active Directory Authentication				
٢	System Configuration	Fachle Ash a Directory Ashardianian	0			
	Client Software	Connection Type:	Standard      SSL			
	Client Software Upgrade	Domain Controller Server Name (or IP):				
	Client Uninstall System Administrators	Domain Controller Port:				
	Administrators Groups	Domain Name:			0	
	System Departments	Account Suffix:			0	
	System Security	User:				
	System Settings	Password:				
	System Decising	Active Directory Administrators Group:			0	
	System Parameters	Active Directory Operations:	Sync AD Admir	nistrators	Test Connection	
	Support	E.msil Conver Cottinge				

2. Open the Keychain Access application from your macOS and select System.

•••	Keychain Access	C (i) Q Search	ſ	
Default Keychains	All Items Passwords Secure Notes	My Certificates Keys C	ertificates	
🗗 login				
liCloud	Certificate Mathematical Content of Content	ithority 30 at 11:24:50 Eastern Europ	ean Summer Time	
System Keychains	This certificate is marked	ed as trusted for all users		
System Roots	Name	~ Kind	Expires	Keychain
	🔀 QA INT CoSoSys	certificate	17 May 2030 at 11:24:50	System
	🔀 QA CA CoSoSys	certificate	14 May 2040 at 11:19:17	System
	com.apple.systemdefault	certificate	24 Aug 2039 at 13:14:25	System
	📷 com.apple.kerberos.kdc	certificate	24 Aug 2039 at 13:14:26	System
	> 🔀 18D0BF9B-7F00B094-0F774D09	9E9DA certificate	10 May 2025 at 10:00:41	System

- 3. Decompress the downloaded **ClientCerts** file.
- 4. Select cacert.pem file and drag and drop it on Keychain Access, System

< > Back/Forward	ClientCerts 2 ClientCerts :	i≡ ≎ ≫ View 2	Q Search +	Default Keychains	Keychain A	Access	i Q My Certificate	Search s Keys Certificates
<ul> <li>cacert.ce</li> <li>cacert.pe</li> </ul>	r Today at 17:25 t Today at 17:25 m Today at 17:25	9	1 KB ci 1 KB ci 5 KB pi	<ul> <li>iCloud</li> <li>System Keychains</li> <li>System</li> <li>System</li> </ul>	Certificate	18D0BF9B-7F00-48D Issued by: CoSoSys JSS Bu Expires: Saturday, 10 May 2 O This certificate is marked	D-B094-0F7 ilt-in Certificat 025 at 10:00:4 d as trusted for	774D09E9DA e Authority If Eastern European Summer Time all users
					☑       QA INT         ☑       QA CA         ☑       com.ap         ☑       com.ap         ☑       192.164         >       ☑         ☑       18D0BF	CoSoSys CoSoSys ple.systemdefault ple.kerberos.kdc 3.15.238 98-7F94-0F774D09E9DA	certificate certificate certificate certificate certificate certificate	17 May 2030 at 11:24:50 14 May 2040 at 11:19:17 24 Aug 2039 at 13:14:25 24 Aug 2039 at 13:14:26 4 Oct 2029 at 12:19:01 10 May 2025 at 10:00:41

5. Double click the **x** from the newly added certificate and from the **Trust** section, select **Always Trust**.

efault Keychains	All Items Passwords Secure Notes My Certificates Keys Certificates	
}' login ⊇ iCloud	Certificate Maria Solo Certificate authority Expires: Thursday, 4 October 2029 at 12:19:01 Eastern European Summer Time	
stem Keychains	This root certificate is not trusted	
System		
System Roots	• • • 192.168.15.238	Keychain
	192,168,15,238	System
	Certificate Root certificate authority	System
	Expires: Thursday, 4 October 2029 at 12:19:01 Eastern European Summer Time	System
	This root certificate is not trusted	System
	✓ Trust	System
	When using this certificate: Always Trust	System
	Secure Sockets Layer (SSL) Always Trust	
	Secure Mail (S/MIME) Always Trust	
	Extensible Authentication (EAP) Always Trust	
	IP Security (IPsec) Always Trust	1 1 13
	Code Signing Always Trust	
	Time Stamping Always Trust	
	X.509 Basic Policy Always Trust	
	✓ Details	
	Subject Name	
	Country or Region RO	
	County Cluj	
	Organisation COSOSys Ltd.	

6. **Save** the changes.

**Important:** Please beware, that Regenerating the Server Certificate Stack will force MacOS users to add the new Certificate into the Keychain (on Windows it will be updated automatically).

## 6.4.3. Deep Packet Inspection Ports & Settings

From this section, you can correlate the monitored applications with the ports used in each network, manage settings and add allowed domains for the Gmail provider.

By default, the Deep Packet Inspection functionality comes with a list of predefined ports (80, 443, 8080, etc.). You can add ports from this section, if custom ports are used in a specific network, particularly by one of the monitored applications defined as an Exit Point within a Content Aware Protection Policy.

Deep Packet Inspection Ports & Settings							^			
Predef	ined Ports				Custom	Ports				
Port:	80	Traffic Type:	HTTP	~	Enable Cus	tom Ports:				
Port:	443	Traffic Type:	HTTPS	~	Port:		Traffic Type:	нттр	~	+
Port:	8080	Traffic Type:	Proxy	~						
Port:	587	Traffic Type:	нттр	~						
Port:	465	Traffic Type:	SMTP	~						
Port:	25	Traffic Type:	SMTP	~						
	Save									

In this section you can also manage the following settings:

• **Text Inspection** - enable this setting to monitor confidential content typed in Teams, Skype, Slack, Mattermost or Google Spreadsheet, Facebook Post, Facebook Comment, and Instagram Comment online applications.

**Note**: For comprehensive visibility while using '**Teams over web'** in a MS Edge browser, make sure to enable '**Edge'** under '**Policy Exits Points -> Applications -> Web Browser'** in the CAP policy.

**Important:** In blocking mode, Instant Messaging events related to platforms such as Slack and Google Chat might be generated multiple times. This behavior is attributed to the tools' inherent retry mechanisms when a message is blocked. Endpoint Protector is designed to block all such retry attempts for enhanced security.

 Detailed Slack Reporting – to access this setting, ensure Text Inspection is enabled and use Reporting V2 from System Configuration -> System Settings. Once enabled, you can view Destination Details for Slack on the Content Aware Report page in the Reports and Analysis section.

**Note**: This setting requires an active Internet connection for the Endpoint Protector Client.

 Block unsupported protocols in New Outlook – Enable this setting to block the send email functionality in the New Outlook without interacting with the Outlook legacy functionality.  Monitor webmail – Enable this setting to scan the subject and body for Gmail, Outlook and Yahoo on the browser. Attachments will be monitored regardless of this setting.

**Important**: When using Yahoo, the email recipients whitelist for attachments will work only if the attachment is uploaded **after** the recipients are added. If the recipients are modified after the attachment has been added, the file will not be scanned again and validated against the new recipients list. Inconsistent behavior may be experienced on Linux machines.

You can also use the **Monitor webmail** feature to detect source code for web browsers emails in subject and body. For email applications, source code can be detected in subject, and for the body, source code cannot be enabled for detection without breaking other functionality.

Note: Always use Monitor webmail with Extended Source Code Detection setting enabled.

• Allowed domains for Google Business accounts - You can use this setting to allow the users to access specific Google domains for professional usage when Deep Packet Inspection is enabled.

To specify the allowed business accounts, type an entry on the **Add allowed Business accounts** and then click +

The new entry will be displayed on the **Allowed Business accounts** list, from where you can delete by clicking **x**.

**Important**: Endpoint Protector will block access to all Google domains (business and private) used for Gmail, Google Drive, Google Docs, etc. that are not listed here. If the list remains empty, no Google domain will be blocked.



### 6.4.3.1. Monitor Webmail Json format parser usage

To use this setting, you need to be familiarized with JSON concepts and structures.

Go over the following Syntax examples considering the values used are the default values from the Endpoint Protector Server UI:

- You can specify multiple paths, separated by a comma "," inside the curly brackets. The paths will then be parsed and used, in the specified order, one by one, until the information is successfully extracted
- [:] takes all entries from the array and parses the result, and can be used with both of the following examples
- 1. Subject extraction example for Yahoo:

#### subject={requests[:].payloadParts[:].payload.message.headers.subject}

• Uses named key-value pairs and arrays ([])

**[:] Example**: If the array located at the requests key has 3 elements, the path will be expanded for each element:

- requests[0].payloadParts[:].payload.message.headers.subject
- requests[1].payloadParts[:].payload.message.headers.subject
- requests[2].payloadParts[:].payload.message.headers.subject

The process is then repeated for the payloadParts array,

0. Subject extraction example for Gmail:

## subject={[1][0][0][1][1][13][0][7]}

- Uses only nested arrays
- The subject here is located at a specific path inside nested arrays without having to go through all elements of a specific array and use [:]

Settings			
Text Inspection:	ON O	Peer Certificate Validation:	ON 🕦 🕄
Detailed Slack Reporting:			
DPI Bypass Traffic:		Block unsupported protocols in New Outlook:	ON
Monitor webmail:			
Select Parser:	Gmail 👻		
JSON format:	$ \begin{array}{l} \label{eq:constraint} from = \{[1][0][0][1][1][1][1][0][1][1],[1][0][0][1][1][2][0][4][0] \\ [1][1] \} \\ to = \{[1][0][0][1][1][13][0][2][:][1],[1][0][0][1][1][2][0][4][0] \\ [:][1] \} \\ cc = \{[1][0][0][1][1][13][0][3][:][1],[1][0][0][1][1][2][0][4][0] \\ [:][1] \} \\ bcc = \{[1][0][0][1][1][13][0][4][:][1],[1][0][0][1][1][2][0][4] \\ [0][:][1] \} \\ bcl = \{[1][0][0][1][1][1][13][0][4][:][1],[1][0][0][1][1][2][0][4] \\ [0][:][1] \} \\ \end{array} $		

**Important:** It is advised, that due to recent changes applied by cloud providers, to not apply any changes in the JSON parser, unless Monitor Webmail is not working

### 6.4.3.2. Note on Peer Certificate Validation Usage

- If Deep Packet Inspection is ON and Peer Certificate Validation is enabled then you cannot access unsecured websites and a certificate warning message is displayed.
- If Deep Packet Inspection is ON and Peer Certificate Validation is disabled then you can access unsecured websites and no certificate warning messages are displayed.

**Example**: Your organization uses an SSL inspection proxy or gateway. The certificates injected by the proxy or gateway cannot be validated on the endpoint because they are either invalid or the issuer CA certificate is not installed in the "Trusted Root Certification Authorities" in the computer certificate store.

To allow Deep Packet Inspection to work in this case you must skip peer certificates validation. Endpoint Protector Client assumes that in this case the peer certificate validation is performed by the proxy or gateway so that security is not compromised.

## 6.4.4. Deep Packet Inspection Applications

From this section, you can enable or disable the Deep Packet Inspection functionality for each application that is subject to this functionality.

**Note**: Only the applications that support Deep Packet Inspection are available in the list below.

Dashboard	«E Content Aware Protection - Deep Packet Inspection									
Device Control	Deep Packet Inspection Application	Deep Packet Inspection Applications								
Content Aware Protection	Filters A	Filters A								
Dashboard Content Aware Policies Deep Packet Inspection	Name: Name		Type:	Any	~					
eDiscovery	OS Type: Any Decet	~	DPI:	Any	~					
Denylists and Allowlists	Appiy Reset	Apply Reset								
Enforced Encryption	Show 10 🗸 entries	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload								
Offline Temporary Password	Name	Туре	OS Type	DPI	4 Actions					
Reports and Analysis	OneDrive (Skydrive)	Cloud Services / File Sharing	Mac	Disabled	:=					
Alerts	OneDrive for Business	Cloud Services / File Sharing	Windows	Disabled	:=					
Directory Services	Microsoft Teams	Cloud Services / File Sharing	Windows	Disabled	Enable DPI					
	OneDrive (Skydrive)	Cloud Services / File Sharing	Windows	Disabled						
	Microsoft Teams	Cloud Services / File Sharing	Mac	Disabled	:=					
System Maintenance	Microsoft Teams	Cloud Services / File Sharing	Linux	Disabled	:=					
System Configuration	OneDrive for Business	Cloud Services / File Sharing	Mac	Enabled	:=					
System Parameters	Outlook (Attachments)	E-mail	Windows	Enabled	:=					
	SeaMonkey Mail	E-mail	Windows	Enabled	:=					
Support	eM Client	E-mail	Windows	Enabled	:=					
	Showing 1 to 10 of 89 entries			Previous 1 2	3 4 5 9 Next					
					Back					

**Important**: The Deep Packet Inspection functionality needs to be first enabled from Device Control, Settings (Global, Groups, Computers, etc.).

Note: For detailed information on, refer to the **<u>Global Settings</u>** chapter.

## 6.4.5. Certificate status matrix

The following table lists when Endpoint Protector Server reports specific states:

os	is Available	isTrusted	Server Side
	N/A	N/A	N/A
macOS	N/A	0	N/A
	N/A	1	N/A

	0	N/A	Not added
	0	0	Not added
	0	1	Not added
	1	N/A	Not trusted
	1	0	Not trusted
	1	1	Trusted
	N/A	N/A	N/A
Linux	N/A	0	N/A
	N/A	1	N/A
	0	N/A	N/A
	0	0	N/A
	0	1	N/A
	1	N/A	N/A
	1	0	N/A
	1	1	N/A
	N/A		N/A
Windows	0		Not added
	1		Trusted

Note: Linux has dedicated certificate stores.

**Note**: On Windows, if the certificate is added, it is automatically trusted.



This module allows you to create policies that inspect data residing on protected Windows, Macs, and Linux computers. The company's data protection strategy can be enforced and risks posed by accidental or intentional data leaks can be managed. You can mitigate problems posed by data at rest by discovering sensitive data, such as:

- **Personal Identifiable Information (PII):** social security numbers (SSN), driving license numbers, E-mail addresses, passport numbers, phone numbers, addresses, dates, etc.
- **Financial and credit card information**: credit card numbers for Visa, MasterCard, American Express, JCB, Discover Card, Diners Club, bank account numbers, etc.
- **Confidential files**: sales and marketing reports, technical documents, accounting documents, customer databases, etc.

## 7.1. eDiscovery Activation

eDiscovery comes as the third level of data protection available in Endpoint Protector. The module is displayed but requires a simple activation by pressing the Enable button. If not previously provided, the contact details of the Main Administrator will be required.

**Note**: Any details provided will only be used to ensure the Live Update Server is configured correctly and that the eDiscovery module was enabled successfully.

**Important**: The eDiscovery module is separate from Device Control or Content Aware Protection modules, and requires separate licensing.

Dashboard	« EDiscovery - Activation								
Device Control	Activate eDiscovery	Activate eDiscovery							
Content Aware Protection	Endnoint Dec								
eDiscovery	Endpoint Protector euiscovery Inspect content and manage files containing sensitive information stored on computers. Encrypt, Quarantine, User Remediation and more.								
Dashboard <u>Policies and Scans</u> Scan Results and Actions	For Windows, Endp	For Windows, Endpoint Protector Client version 4.6.4.8 or higher is required.     For msdDS, Endpoint Protector Client version 1.5.2.3 or higher is required.							
Denylists and Allowlists	In order to receive the latest features, fixes and additional information needed, the Endpoint Protector Server will communicate through a secure HTIPS connection to www.andpointprotectoc.com Alternatively, if you do not wave to allow the Endpoint Protector Server to how final access to the internet, whitelist the endpointprotectoc.com dama and ensure ports 80 and 443 are open for outgoing traffic. Any details provided will only be used to ensure the Lei Usefite Server is contracted, and that the electored through an ended successfully.								
O Enforced Encryption	This Hights Course Televentrian								
Offline Temporary Password	Company:	💼 TestCompany 🗸							
Reports and Analysis	Administrator:	1 Admin 🗸							
Alerts	E-mail:	🖸 test@cosoys.com 🖌							
Directory Services	Phone:	↓ +1234567890 ✓							
Appliance		Enable							
System Maintenance									
System Configuration									
System Parameters									
O Support									

## 7.2. Dashboard

This section offers a quick overview in the form of graphics and charts related to the eDiscovery module.

Dashboard	« eDiscovery - Dashboard		2021-02-21 2021-02-26
Device Control			
Content Aware Protection	Top Policies		Covered Endpoints
📆 eDiscovery	1200		Total number of computers in the system: 54
Dashboard Policies and Scans Scan Results and Actions	1000		
Denylists and Allowlists	600		
O Enforced Encryption	200		
Offline Temporary Password	0-		
Reports and Analysis	2021-02-21 2021-02-22 2021-02-23	2021-02-24 2021-02-25 2021-02-26	
🛆 Alerts	Test macOS Test Windows Test Windows 2		Endpoints without Policies
Directory Services	Mach Active Computers	Tap Captort Detected	Reported vs Engrated/Deleted
E Appliance			
<b>Y</b> System Maintenance	1000	1.9 K	2 N
System Configuration	800	1000	
E System Parameters	600	800	1000
0 Support	400	400	
	200	0	0
	QA MacBook LARISAL	JPEG date Excel credit-car	QA MacBook LARISAL
			File Reported File Encrypted File Deleted

## 7.3. eDiscovery Policies and Scans

eDiscovery Policies are sets of rules for sensitive content detection for data stored on protected computers.

An eDiscovery Policy is made up of five main elements:

- **OS Type**: the OS it applies to (Windows, Mac, or Linux)
- Thresholds: the number of acceptable violations
- **Policy Denylists**: the content to be detected
- Policy Allowlists: the content that can be ignored
- Entities: the departments, groups, or computers it applies to

#### **Note**: Once the eDiscovery Policies are created, select the type of eDiscovery Scan.

eDiscovery Scans are sets of rules for Policies, defining when to start the data discovery. There are several types of scans:

- Clean scan: stars a new discovery (from scratch)
- **Incremental scan**: continues the discovery (skipping the previously scanned files)

eDiscovery Automatic Scanning is also available, allowing you to set an Incremental Scan

- One time a scan will run once, at the specific date and time
- Weekly a scan will run every 7 days, from the set date and time
- Monthly a scan will run every 30 days, from the set date and time

eDiscovery - Automatic Scanning	×
Only one automatic scanning can be scheduled per endpoint time below.	and it will start an Incremental Scan at the set date and
Run:	Start date:
One time	2017-07-19 15:43:22
O Weekly (every 7 days)	
O Monthly (every 30 days)	
	Schedule

An eDiscovery Scan can be stopped at any time as results can also be automatically cleared.

This can be done by using:

- Stop scan: stops the scan (but does not affect the logs)
- Stop scan and clear scan: stops the scan and clears the logs

**Note**: Use Global Stop and Clear in situations where all the eDiscovery Scans need to be stopped and all the Logs cleared.

#### 7.3.1. Creating an eDiscovery Policy and Scan

You can easily create and manage eDiscovery Policies and Scans from the eDiscovery, Policies and Scans section.

Dashboard	«目 eDiscovery - Policies and Scans
Device Control	eDiscovery Policies
Content Aware Protection	Control Annual Maria
eDiscovery	dear unumar
Dashboard Policies and Scans	eDiscovery Scans ^
Scan Results and Actions	Filters v
Denylists and Allowlists	Select all entries
Enforced Encryption	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload
Offline Temporary Password	
Reports and Analysis	Computer v Poincy us scanning type scanning Actions Scanning Status States at Found Ubjects Automatic scanning Actions
Alerts	Showing 0 to 0 of 0 entries Previous Next
Directory Services	
🗔 Appliance	Manual Scanning Automatic Scanning Global Stop and Clear Back
System Maintenance	
System Configuration	
System Parameters	
🤘 Support	

To create a new policy click Create Custom Policy and to edit an available policy, double-click it. You need to select a policy to edit, duplicate or delete a policy.

Priority 1  Tony	♦ Priority 2 ► MAC	Priority 3 tony PC
No policy description	No policy description	No policy description
		ON

When creating a new policy, select the following:

- **Policy Information** (OS Type, Policy name, description, action, and type)
- Policy Exit points
- Policy Denylists, Policy Allowlists
- **Policy Entities** (Departments, Groups, and Computers)

You can use the following thresholds:

- Limit Reporting eD
- Threat Threshold value
- File Size Threshold

You can find more details about Thresholds directly in the Endpoint Protector User Interface.

For detailed information on Denylists and Allowlist, refer to the **Denylists and Allowlists** chapter.

After the eDiscovery Policy has been created, Scanning Actions can be assigned. These include **Start clean scan**, **Start incremental scan**, **Stop scan**, and **Clear logs**.

**Note:** Exactly like Content Aware Protection Policies, the eDiscovery Policies and Scans continue to detect sensitive data stored on protected computers even after they are disconnected from the company network. Logs will be saved within the Endpoint Protector Client and will be sent to the Server once the connection has been reestablished.

### 7.4. eDiscovery Scan Result and Actions

After an eDiscovery Scan starts, you can inspect the items found and apply actions to remediate (e.g., delete on target, encrypt on target, decrypt on target, etc.). All results are displayed in the eDiscovery, Scan Results, and Actions section.

🕥 Dashboard	«目 eDiscovery - Scan Results and Actions	
Device Control	Actions apply per discovered file and not per matched item. Entries associated to the discovered file(s) will also be changed.	×
Content Aware Protection		_
eDiscovery	eDiscovery scan results	^
Dashboard	Filters v	
Scan Results and Actions	Select all entries	
Denylists and Allowlists	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload	
Enforced Encryption	Computer Policy Hatched type Hatched Item Path Discovered at _Server time Current State Last Action Action Status Actions	
0ffline Temporary Password	No matching records found	
Reports and Analysis	Showing 0 to 0 of 0 entries	rt
Alerts	d average and	
Directory Services	Choose action	
G Appliance		
System Maintenance		
System Configuration		
System Parameters		
🦲 Support		

You can also access the Scan Results and Actions section directly from eDiscovery > Policies and Scans by selecting a computer from the eDiscovery Scans list and choosing the Inspect found items action. This will automatically filter the Scan Results list and display the items only for that specific computer.

eDi	covery Scans								^	
— F	Filters v									
s	Show 10 * entries Search_ Excel PDF CSV Column visibility Relaad									
	Computer 🔻	Policy	OS Type 🗍	Scanning Type	Scanning Action	Scanning Status	Started at	Found Objects	Actions	
	Test's Mac mini	TONY mac	macOS	Manual	Incremental scan	100%	2017-02-21 08:46:57	25%	·=	
	Marius's MacBook Pro	marius-mac	macOS	Manual	Clean scan	100%	2017-02-27 09:53:03	4 Start clean scan	=	
	MARIUS-PC	marius	Windows	Manual	Clean scan	100%	2017-02-24 18:45:16	4 🕞 Stop scan	=	
	CRISTIB	CristiB, Threshold mai mare	Windows	Manual	Clean scan	100%	2017-02-28 10:37:09	16 💿 Stop scan and clear logs	=	
Show	ng 1 to 4 of 4 entries							Q Inspect found items	is 1 Next	

#### 7.4.1. Viewing Scan Results and taking Actions

From this section, you can manage the scan results. A list of all the computers that were scanned can be viewed and actions such as deleting, encrypting or decrypting files can be taken.

1	Dashboard	«目 eDiscovery - Scan Results and Actions													
ē	Device Control	Actions	Actions apply per discovered file and not per matched item. Entries associated to the discovered file(s) will also be changed.												
9	Content Aware Protection														
	eDiscovery	eDis	eDiscovery scan results												
	Dashboard Policies and Scans	Filters A													
	Scan Results and Actions	Com	nputer:		Computer				Policy:		Policy				
	Denylists and Allowlists	Mab	ched type:		Matched typ	pe			Matched item	:	Matched item				
<u>)</u>	Enforced Encryption	Path	1:		Path				Discovered at		Discovered at				
	Offline Temporary Password	Curr	rent State:		Any		~		Last Action:		Any			~	
		Status: Any 🗸													
	Reports and Analysis	Stat	tus:		Any	-	~								
	Reports and Analysis Alerts	Stal	Apply		Any Reset		Ŷ								
	Reports and Analysis Alerts Directory Services	Stat	Apply w 10 v entri	ies	Any Reset	•	•				Excel	PDF CSV	Show/H	ide Columns	Reload
	Reports and Analysis Alerts Directory Services Appliance	Stat	Apply w 10 v entri Computer	ies Policy 🍦	Any Reset	Matched	Path		\$	Discovered at V	Excel	PDF CSV	Show/H	Ide Columns	Reload
	Reports and Analysis Alerts Directory Services Appliance System Maintenance	Sho	Apply w 10 v entri Computer QA MacBook Pm	ies Policy	Any Reset Matched type	Matched item	Path /Users/qa/Desktop/test_files/	CAP_PII. Updated/lifetypeu/Graphic/MG_JPEC	\$ GJIPG	Discovered at 2021-02-26 13-23-38	Excel	PDF CSV Current State	Show/H Last Action	Ide Columns	Reload Actions
	Reports and Analysis Alerts Directory Services Appliance System Maintenance System Configuration	Sho	Apply w 10 v entri Computer QA MacBook Pro QA MacBook Pro	ies Policy	Any Reset Matched type JPEG	Matched item •	Path Uzersiga/Desktop/test_files/ /Usersiga/Desktop/test_files/	CAP_PII_Updated/lifetpreu/Graphic/MIG_JPEC	¢ S.JPG 3)	Discovered at ~ 2021-02-26 13-23-38 2021-02-26 13-23-15	Excel	PDF CSV Current State Reported Reported	Show/H	Action Status Encrypt on target Decrypt on target	Reload Actions
	Reports and Analysis Alerts Directory Services Appliance System Maintenance System Configuration System Parameters	Sho	Apply w 10 v entri Computer QA MacBook Pro QA MacBook Pro QA MacBook	ies Policy	Any Reset Matched type JPEG JPEG	Matched item •	Path Alsersiga/Desktophest_files/ Alsersiga/Desktophest_files/ Alsersiga/Desktophest_files/	CAP_PII_Updatedfiletypes/Graphic/IMG_UPEC CAP_PII_Updatedfiletypes/Graphic/IMG_UPEC	\$ 3.JPG 3] 0053137-03-	Discovered at 2021-02-26 13:23:38 2021-02-26 13:23:15 2021-02-26 13:23:15 2021-02-26	Excel  Server time 2021-02-26 13:23:54 2021-02-26 13:23:33 2021-02-26 13:23:33	PDF CSV Current State Reported Reported	Show/H	Action Status Encrypt on target Decrypt on target Delete on target n/a	Reload Actions
	Reports and Analysis Alerts Directory Services Appliance System Maintenance System Configuration System Parameters System Parameters	Sho	Apply w 10 v entri Computer v QA MacBook Pro QA MacBook Pro QA MacBook Pro QA MacBook	ies Policy Policy Test macOS Test Test Test Test	Any Reset Matched yPEG JPEG JPEG JPEG	Matched fitem files	Path Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/	CAP_PII_Updatedflietypes/Graphic/MG_UPEC CAP_PII_Updatedflietypes/grap[DBC_1028_PC ttps=_cdn.cm.com.cmneet.dam.assets.19112 9	© 3.JPG 3.] 00053137-03- 7163154-	Discovered at 2021-02-26 13:22-38 2021-02-26 13:22-15 2021-02-26 13:22-54 2021-02-26 13:22-54	Excel  Server time 2021-02-26 13.22.354 2021-02-26 13.22.33 2021-02-26 13.22.03 2021-02-28 13.23.03 2021-02-28 2021-02 2021-02 2021-02 2021-02 2021-02 202	PDF CSV Current € Reported Reported	Show/H	Action Status Encrypt on target Delete on target n/a n/a	Reload Actions
	Reports and Analysis Alerts Directory Services Appliance System Maintenance System Configuration System Parameters Support	Sho	Apply           Apply           I 0         entri           Computer         0           QA MacBook         0           Pro         QA MacBook           Pro         QA MacBook           Pro         QA MacBook           QA MacBook         Pro           QA MacBook         Pro           QA MacBook         QA MacBook	es Policy Test macOS Test macOS Test macOS Test Test Test	Any Reset	Matched tem  image/peg image/peg image/peg image/peg image/peg image/peg	Path Alsersiga/Desktophet_flow/ Alsersiga/Desktophet_flow/ Alsersiga/Desktophet_flow/ Alsersiga/Desktophet_flow/ bumble-bee-flowe-attockjg Jumble-bee-flowe-attockjg	CAP_PII_Updated*lietypes/Graphic/MQ_JPEC CAP_PII_Updated*lietypes/pip_05C_1028_JPC https=-cdn.cm.com-cnnnext-dam-assets-19112 9 https=-cdn.cm.com-cnnnext-dam-assets-20012 https=-cdn.cm.com-cnnnext-dam-assets-20012	\$ 3.JPG 3] 0053137-03- 7163154-	Discovered at            0221-02-26 13.223.38         2021-02-26           13.223.15         2021-02-26           13.225.54         2021-02-26           13.225.54         2021-02-26           2021-02-26         2021-02-26           2021-02-26         2021-02-26           2021-02-26         2021-02-26	Excel           Server           2021-02-26           13:23:54           2021-02-26           13:23:33           2021-02-26           13:23:33           2021-02-26           13:23:33           2021-02-26           13:23:33           2021-02-26           13:23:33           2021-02-26           13:23:33	PDF CSV Current  Reported Reported Reported	Show/H Last Action n/a n/a n/a n/a	de Columns	Reload Actions
	Reports and Analysis Alerts Directory Services Appliance System Maintenance System Configuration System Parameters Support	Sho	Apply     Apply     T0    or entri      Computer     OA MacBook     Pro     OA MacBook     OA     OA MacBook     OA     OA MacBook     OA     OA MacBook     OA     OA	ies Policy Test macOS Test macOS Test Test macOS Test	Any Reset Reset UPEG UPEG UPEG UPEG UPEG UPEG UPEG UPEG	Hatched Matched Mages/peg image/peg	Path Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/ Alsensiga/Desktop/test_files/	CAP_PIL_Updatedfiletypes/Graphic/MGL_JPEC CAP_PIL_Updatedfiletypes/Graphic/MGL_JPEC httpscofn.cm.com-cnnext-dam-assets-19112 httpscofn.cm.com-cnnext-dam-assets-20012 httpscofn.cm.com-cnnext-dam-assets-20012 httpscofn.cm.com-cnnext-dam-assets-20012 httpscofn.cm.com-cnnext-dam-assets-20012 httpscofn.cm.com-cnnext-dam-assets-20012	3.JPG 3) 0053137-03- 7163154-	Discovered at         Image: Constraint of the second second second	Excel  Server time 2021-02-20 1323.54 2021-02-20 1323.33 2021-02-20 2021-02 2021-02-20 2021-02 2021-02-20 2021-02 202	PDF CSV Current Reported Reported Reported	Show/H	Ide Columns	Reload Actions

You can apply an action to each item individually or, can select multiple items and apply the action simultaneously by using the Choose action button.

# 8. Denylists and Allowlists

From this section, you can create Denylists and Allowlists that can be used in both the Content Aware Protection and eDiscovery modules. Once defined, these lists can be enabled for a specific policy.

		Denylists and Allov	vlists Availal	oility		
-	Negati	PI	atform	Modules		
Гуре	Name	Windows	macOS	Linux	Content Aware Protection	eDiscovery
	Custom Content	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
	File Name	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
	File Location	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Denylists	Scan Location	<ul> <li>✓</li> </ul>	<b>v</b>	<ul> <li>✓</li> </ul>	X	<ul> <li>✓</li> </ul>
	Regex	<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
	Domain and URL	<ul> <li>✓</li> </ul>	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×
	E-mail Domain	<ul> <li>✓</li> </ul>	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×
	MIME Type	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
	Allowed Files	<ul> <li>✓</li> </ul>	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
	File Location	<ul> <li>✓</li> </ul>	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
	Network Share	<b>v</b>	<ul> <li>✓</li> </ul>	×	<ul> <li>✓</li> </ul>	×
Allowlists	E-mail Domain	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×
	URL Name	✓ only on Internet Explorer	×	×	<b>v</b>	×
	Deep Packet Inspection	~	~	~	~	×
U	RL Categories	~	<b>v</b>	<ul> <li>✓</li> </ul>	~	×

# 8.1. Denylists

#### 8.1.1. Custom Content

Custom Content denylists are custom-defined lists of terms and expressions detected as sensitive content by Endpoint Protector, available for both Content Aware Protection and eDiscovery modules.

9	Dashboard	«E Denylists and Allowlists - Denylists									
0	Device Control	Denylists									
P	Content Aware Protection										
	eDiscovery	Custom Cont	ent File Name	File Location	n Scan Location	Regex Domain and	URL E-mail Doma	lin			
	Denylists and Allowlists Show 10 v entries										
	<u>Denylists</u> Allowlists	Name 🔶	Description	Items 🕴	Created by	Created at	Modified by	Modified at 🔫	Actions		
	URL Categories	Test 1		1	user 1	2022-04-19 12:30:08	user 1	2022-04-19 12:30:44	:=		
<u> </u>	Enforced Encryption	Test 2		101	user 2	2022-04-18 13:33:53	user 2	2022-04-18 13:33:53	:=		
	Offline Temporary Password	Test 3		101	user 3	2022-04-18 13:27:39	user 3	2022-04-18 13:27:39	:=		
2	Reports and Analysis	Test 4		100	user 4	2022-04-18 13:27:13	user 4	2022-04-18 13:27:14	:=		
	Alerts	Test 5		101	user 5	2022-04-18 13:28:39	user 5	2022-04-18 13:28:39	:=		
0	Directory Services	Test 6			user 6	2022-04-18 11:33:34	user 6	2022-04-18 11:33:34	:=		
	Appliance	Test 7			user 7	2022-04-18 10:38:07	user 7	2022-04-18 10:39:52	:=		
¥1	System Maintenance	Test 8		100	user 8	2022-04-18 10:39:20	user 8	2022-04-18 10:39:20	:=		
	Curtem Configuration	Test 9		6	user 9	2022-04-15 18:45:04	user 9	2022-04-15 16:45:04	:=		
9	System Computation	Test 10		7	user 10	2022-04-13 16:49:16	user 10	2022-04-13 16:49:16	:=		
	System Parameters	Showing 1 to 10 o	of 15 entries 1 row select	ted				Previous	1 2 Next		
	Support	Add							Back		
		Adu							Dack		

From this section, you can view and add e-mail custom content denylists and from the **Actions** column, you can edit, delete or export an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description** and then **type or paste** items at least three characters separated by a new line, comma, or semicolon. You can **import content** using the **sample file** provided on the form and then select the option based on the number of uploaded items.

**Note**: Dictionaries of under 100 items can be edited, while larger dictionaries have to be uploaded again.

Once the denylist is created, it will be displayed on the Custom Content list and will be available when creating or editing a Content Aware Protection or eDiscovery policy.

ame:	Name	
scription:	Description	
ontent Options:	<ul> <li>Type or Paste content</li> </ul>	Import content
ownload sample file:	Custom_Content_Denylist_sample	xls
port Custom Content Dictionary:	Choose File	
tom Content Options:	Less than 100	Between 100 and 50,000

#### 8.1.2. File Name

File Name Denylists are custom-defined lists of file names detected by Endpoint Protector, available for both Content Aware Protection and eDiscovery modules.

From this section, you can view and add filename denylists and from the **Actions** column, you can edit, delete or export an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description** and then **type or paste** the file names separated by a new line, comma, or semicolon. You can **import content** using the **sample file** provided on the form.

You can define the content by adding the filename and extension, or just the extension.

Examples: Matching and Non-Matching for File Names like "example.pdf":

- Matching: example.pdf, my\_example.pdf
- **Non-Matching**: example.txt, myexample.txt, test.pdf, example.pdf.txt, test\_example.pdf\_test.zip

Examples: Matching and Non-Matching for File Extensions like ".epp":

- Matching: test.epp, mail.epp, 123.epp
- Non-Matching: 123.epp.zip, mail.epp.txt

Once the denylist is created, it will be displayed on the File Name list and will be available when creating or editing a Content Aware Protection or eDiscovery policy.

**Important**: For Content Aware Protection, the File Name Denylists work only for Block & Report type Policies. The Case Sensitive and Whole Words Only features do not apply.

Add		
Name:	Name	
Description:	Description	
Content Options:	O Type or Paste content	Import content
Download sample file:	File_Name_Denylist_sample.xls	
Import Custom File Name:	Choose File	
	Save	Cancel

#### 8.1.3. File Location

File Location Denylists are custom-defined lists of locations identified by Endpoint Protector. File transfers within this location are automatically blocked, regardless of the content inspection rules or permissions defined in various Policies.

File Location Denylists are available for both Content Aware Protection and eDiscovery modules.

9	Dashboard	« Denylists and Allowlists - Denylists									
1	Device Control	Denylists									
P	Content Aware Protection										
	eDiscovery	Custom Content Fi	le Name File Lo	cation Sca	in Location Reg	Jex Domain and URL	E-mail Domain				
	Denylists and Allowlists	Include subfolders for File Lo	ocation Denylists: 🔵 OF	F							
	<u>Denylists</u> Allowlists URL Categories	Show 10 🗸 entries									
$\bigcirc$	Enforced Encryption	Name 🔶	Description	Items 🔶	Created by	Created at	Modified by	Modified at 🔹	Actions		
	Offline Temporary Password	Test 1			user 1	2022-03-28 13:43:55	user 1	2022-03-28 13:43:55	:=		
		Test 2			user 2	2022-03-28 13:43:34	user 2	2022-03-28 13:43:34	:=		
	Reports and Analysis	Showing 1 to 2 of 2 entries						Previous	i 1 Next		
	Alerts	Add							Back		
Ø	Directory Services										
	Appliance										
۲i	System Maintenance										
٥	System Configuration										
E	System Parameters										
	Support										

Enabling the option to **Include subfolders for File Location Denylists** will affect all other File Location Denylists and Allowlists throughout the system. By default, the File Location

Denylists apply to all files located in the specific folder but also to any other files located in containing subfolders.

**Note:** In addition to defining the File Location Denylist, the browser or application used to transfer files also needs to be selected from within the Content Aware Protection Policy.

From this section, you can view and add file location denylists and from the **Actions** column, you can edit, delete or export an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description**, add the items separated by a new line, comma, or semicolon and then select the **groups** and **computers**.

**Important**: File Location Denylist will not apply to groups of users, only to groups of computers. File Location Denylist will only apply for the selected computer groups after 15 minutes.

Add			Back
Name: Description:	Name Description	ନିଲି Groups	Computers
Content:	e.g.: D:\Example\Default_File_Location	G1 G2 G3 G4 G5 G6	Computer 1 Computer 2 Computer 3 Computer 4 Computer 5 Computer 6 Computer 7
	Save Cancel	× Search Q	× Search Q

You can use wildcard patterns in the File Location Denylists to specify wildcard matching. To match a desktop folder on Windows, use the pattern "?:\Users\\*\Desktop\".

Wildcards u File Locatio	sage examples f n	for	
Wildcards Type	File Location	Results matched	Results not matched
Implicit	C:\temp	C:\temp\file.txt C:\temp\test\file2.txt C:\tempfile.txt	C:\temp1\file.txt C:\Windows\file.txt

Explicit	C:\Windows\*	C:\Windows\regedit.exe C:\Windows\system32\notepad.exe	C:\Windows.old\regedit.exe C:\Windows.old\system32\notepad.exe

#### 8.1.4. Scan Location

Scan Location Denylists are custom-defined lists of locations identified by the eDiscovery module. Data at rest within this location are automatically inspected for content, depending on the rules defined in various Policies.

<b>(</b>	Dashboard	«目 Deny	lists a	and Allowlists -	De	enylists						
7	Device Control	Denylists										
P	Content Aware Protection			-								
	eDiscovery	Custom C	Content	File Name	Fil	e Location Sca	In Location Rege	ex Domain and UF	L E-mail Domain			
	Denylists and Allowlists	This fe	ature is	only available for eDiscov	ry	. If defined, the eDisco	very Scan will be performed	l only in specific locations,	and not the entire computer.			
	<u>Denylists</u> Allowlists URL Categories	Show	10 🗸	entries								
0	Enforced Encryption	Name	÷	Description	÷	Items 🔶	Created by	Created at	Modified by	Modified at	Ŧ	Actions
	Offline Temporary Password	Test 1				*C:\Users\*\Desktop\*	root	2022-04-27 14:05:23	root	2022-04-27 14:05:23		:=
	Reports and Analysis	Showing 1	to 1 of 1	entries						Pre	evio	us 1 Next
	Alerts	-	Add									Back
Ø	Directory Services											
	Appliance											
۲i	System Maintenance											
٥	System Configuration											
=	System Parameters											
	Support											

From this section, you can view and add scan location denylists and from the **Actions** column, you can edit or delete an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description**, add the scan locations separated by a new line, comma, or semicolon or select from the **Predefined Scan Locations** and then **Add to Content**.

When defining a Scan Location, use these special characters to define the path:

- \* to replace any word
- ? to replace any character

Add			Back
Name:	Name		Predefined Scan Locations
Description:	Description		Windows Deckton (*C:\ Isers\*\Deckton\*)
Content:	e.g.: D:\Example\Scan_Location	0	<ul> <li>Hindows Downloads (*C:(Users)*(Downloads(*))</li> <li>Windows Documents (*C:(Users)*(My Documents(*))</li> <li>Mac Desktop (*/Users/*/Desktop/*)</li> <li>Mac Downloads (*/Users/*/Downloads/*)</li> <li>Mac Documents (*/Users/*/Documents/*)</li> </ul>
	Save	Cancel	Add to Content

#### 8.1.5. Regex

Regular Expressions are sequences of characters that form a search pattern, mainly for use in pattern matching with strings.

You can create a regular expression to find a certain recurrence in the data that is transferred across the protected network. Regex Denylists are available for both the Content Aware Protection and eDiscovery modules.

**Important**: If possible, avoid using Regular Expressions, as their complexity typically increases the resources usage. Using a large number of regular expressions as filtering criteria typically increases CPU usage. Also, improper regular expressions or improper use can have negative implications.

From this section, you can view and add regex expressions and from the **Actions** column, you can edit or delete an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description** and then add the regex expression.

9	Dashboard	« Denylists and Al	lowlists - Denylists						
7	Device Control	Denylists							^
Ð	Content Aware Protection								
	eDiscovery	Custom Content Fil	e Name File Location So	can Location Regex Domain ar	nd URL E-	mail Domain			
	Denylists and Allowlists	WARNING	using Pagular Expressions as their service	playib, buildsly increases the recourses used					
	<u>Denylists</u> Allowlists URL Categories	This feature is provided " This feature is provided " The regular expressions f	taining regular expressions as filtering criteria ty regular expressions as filtering criteria ty as is" and requires advanced knowledge eature is provided with no direct support	pically increases CPU usage. Also, improper regu of the Regular Expression syntax. t and it is the responsibility of the administrators	lar expressions or to learn and impl	· improper use car ement regular exp	n have negative important of the second s	plications. proughly test.	
0	Enforced Encryption	Show 10 v entries							
	Offline Temporary Password								
	Reports and Analysis	Name 🔶	Description	Expressions	Created by	Created at	Modified by	Modified at	Actions
	Alerts	Default Regular Expression	Expression To Verify An E-mail Address	[-0-9a-zA-Z.+_]+@[-0-9a-zA-Z.+_]+\.[a-zA-Z] {2.4}	root		root		:=
Ø	Directory Services	Showing 1 to 1 of 1 entries						Previous	1 Next
	Appliance	Add							Back
۲i	System Maintenance								
Ø	System Configuration								
	System Parameters								
	Support								

You can **test** a regular expression for accuracy using the right-side option. Add the content and then click Test. If the Regular Expression has no errors, then the same content should appear into the Matched content box, as shown below:

To match an E-mail: [-0-9a-zA-Z.+\_]+@[-0-9a-zA-Z.+\_]+\.[a-zA-Z]{2,4}

To match an IP: (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)){3}

**Note**: This feature is provided "as is" and requires advanced knowledge of the Regular Expression syntax. No direct support is offered and it is the responsibility of the customers to learn and implement regular expressions and to thoroughly test.

Add			Back
Name:	Name	Enter test content:	
Description:	Description		
Expression:			
			Test
		Matched content:	
	Save Cancel		

#### 8.1.6. Domain and URL

Domain and URL Denylists are custom-defined lists of web addresses identified by Endpoint Protector. Access to domains and URLs from these lists will be denied.

Note: Domain and URL Denylists are available only for the Content Aware Protection module.

<b>()</b>	Dashboard	«  Denylists and	Allowlists - Denylists						
Ø	Device Control	Denylists							
P	Content Aware Protection								
	eDiscovery	Custom Content	File Name File Location	Scan Lo	ocation Regex	Domain and URL	E-mail Domain		
	Denylists and Allowlists	This feature is only a	available for Content Aware Protection	in. Access to th	e Domains and URLs	listed below will be denied.			
	<u>Denylists</u> Allowlists URL Categories	Show 10 🗸 entr	ies						
0	Enforced Encryption	Name	Description	Items	Created by	🔶 Created at 🔶	Modified by	Modified at	Actions
	Offline Temporary Password	Test 1		2	user 1	2022-04-11 11:36:48	user 1	2022-04-11 11:44:58	:=
	Reports and Analysis	Test 2		1	user 2	2022-03-28 13:47:42	user 2	2022-03-28 13:47:42	:=
	Alerts	Showing 1 to 2 of 2 entr	les					Previou	s 1 Next
Ø	Directory Services	Add							Back
	Appliance								
۲i	System Maintenance								
Ø	System Configuration								
	System Parameters								
	Support								

From this section, you can view and add domain and URL denylists and from the **Actions** column, you can edit, delete or export an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description** and then **type or paste** items separated by a new line, comma, or semicolon. You can **import content** using the **sample file** provided on the form.

You can create or import up to 100 lists of dictionaries, each dictionary comprising up to 50000 web domains.

**Note**: Dictionaries comprising up to 100 web domains can be edited, but for more extensive dictionaries, you will need to import them again.

You can define the content by adding the file name, file name and extension, or just the extension - pdf, test1example.pdf. example.endpointprotector.com, \*example.com, \*example\*example, https://website.com

Once the denylist is created, it will be displayed on the Domain and URL list and will be available when creating or editing a Content Aware Protection policy.

ame:	Name	
escription:	Description	
ontent Options:	<ul> <li>Type or Paste content</li> </ul>	Import content
ownload sample file:	Domain_and_URL_Denylist_sample.xls	
mport Custom Net DLP Domain:	Choose File	

#### 8.1.7. E-mail Domain

E-mail Domain Denylists are custom-defined e-mail addresses and domains applicable to groups and computers that block the user from sending emails.

**Important**: This feature blocks the user from sending emails regardless of content and type. As the denylist applies to the computer, not the policy, it blocks emails sent from the applications you select that have Report Only or Block and Remediate policies with no remediation possible.

**Note**: This feature is only available for **Content Aware Protection** when **Deep Packet Inspection** is enabled and only impacts applications that retrieve the email recipients and are selected on **Content Aware Protection Policy**.

1	Dashboard	«🔳 Denylis	ts and Allowlists - Denylists						
i	Device Control	Denylists							
0	Content Aware Protection								
	eDiscovery	Custom Con	tent File Name File Location	Scan Loo	ation Regex	Domain and URL	E-mail Domain		
	Denylists and Allowlists	Show 10	✓ entries						
	<u>Denylists</u> Allowlists	Name	Description	Items 🕴	Created by	Created at	Modified by	Modified at 🛛	Actions
	URL Categories	Test 1		2	user 1	2022-03-29 11:09:12	user 1	2022-03-29 11:09:12	:=
0	Enforced Encryption	Test 2		100	user 2	2022-03-28 14:59:23	user 2	2022-03-28 14:59:23	:=
	Offline Temporary Password	Showing 1 to 2	2 of 2 entries					Previous	1 Next
<u>}~~</u>	Reports and Analysis								
	Alerts	Add							Back
ø	Directory Services								
	Appliance								
٧l	System Maintenance								
٢	System Configuration								
E	System Parameters								
0	Support								

From this section, you can view and add e-mail domain denylists and from the **Actions** column, you can edit, delete or export an existing e-mail domain denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description**, add the items separated by a new line, comma, or semicolon and then select the **groups** and **computers**. You can **import content** using the **sample file** provided on the form.

Description:			Groups	0	Computers
Content Options:	Type or Paste content     O Import content		□ G1		computer 1
Content:	e.g.: support@cososys.com,	0	G2 G3		computer 2
	endpointprotector.com, etc.		Group test		

#### 8.1.8. Applications

This section introduces the documentation related to CLI (Command Line Interface) commands denylists usage. CLI commands denylists empower customers with greater control over application start events and offer the capability to scrutinize command line arguments used to launch specific applications. This functionality enhances the precision of CAP (Content Aware Protection) policies, enabling users to gain visibility and control over the usage of particular applications.

Example: Consider the scenario of controlling the startup mode of an application, as illustrated by the example below for Google Chrome:

# With CLI commands denylists, you can define criteria for command line arguments that

match specific application behaviors. This allows you to create CAP policies tailored to your organization's needs, ensuring that the launch and behavior of applications align with your security and compliance requirements.

**Important**: certain native command line utilities such as `ls`, `md`, `cd`, which are embedded in the Operating System Core, may not be captured by CAP visibility. These commands are integral to the functioning of the operating system and are typically excluded from CAP policies, and are not an egress channel.

To define CLI command denylist policies, follow these steps:

1. Navigate to **Denylists -> Application** tab in the Endpoint Protector Console.

2. Define your criteria based on the command line arguments used by the applications you want to control.

3. Incorporate these criteria into your CAP policies as arguments to ensure precise control and monitoring of application usage.

Follow these steps and leverage CLI commands denylists to enhance your organization's security posture and ensure that applications are used in compliance with your policies and regulations.

Denylists								^
Custom Content File Name File Locatio	on Scan Location Regex	Domain and URL E-mail Domain	Applications					
Show 10 v entries								
Name	Items	Created by	0 Creat	ed at	Modified by	Modified at	<ul> <li>Actions</li> </ul>	
			No data a	wailable in table				
Showing 0 to 0 of 0 entries							Previous Next	
Add							Back	
$\bigcirc$ This feature allows to use wildcard asterisks. Use the	m in explicit way for extended visibility.							
Name:	e.g.: Chrome			List of Application & CLI Comm	and:	chrome.exeincognito		
Description:	Chrome incognito							
Application & CLI Command:	e.g.: chrome.exe							
Parameters:	e.g.:incognito							
						* Search	Q	
	Add to Content					Conerato		
						Ochemic		

Note: Currently, the EPP Client's visibility is restricted when it comes to PowerShell and PowerShell ISE.

Note: At the moment, we do not offer visibility for basic command line operations on MacOS and Linux, including actions such as touch, cp, cd, mv, and mkdir.

### 8.2. Allowlists

#### 8.2.1. MIME Type

The content inspection functionally within Endpoint Protector identifies multiple file types. While some files (e.g. Word, Excel, PDFs, etc.) can contain confidential information (e.g. PIIs, SSNs, Credit Cards, etc.), other files are highly unlikely to contain such data (e.g. .dll, .exe, .mp3, .avi, etc.).

The purpose of the MIME Type Allowlists is to eliminate the use of resources to inspect redundant and unnecessary files for content, as well as reducing false positives due to information detected in the metadata of files where the risk of data loss is extremely low.

**Example**: As songs or video files cannot contain lists of credit card numbers, there is no need to inspect them using content filters.

MIME Type Allowlists are available for both the Content Aware Protection and eDiscovery modules and apply to Custom Content, Predefined Content, and Regular Expressions.

**Note**: By default, graphic files, media files, some password-protected archive files and some system files are automatically defined within the MIME Type Allowlists. While this can be changed, we recommend only doing so after gaining a deeper understanding of the type of data transferred used, or stored by the users in your system, and the subsequent logs increase in the Endpoint Protector Server.

ERPOINT DPF OOK DSV ECT
☐ 72/PASSWORD
ERSHELL         JMA           ON         TEX           ON         TEX           ODD PACKAGE         SSEPHIBLY           DID PACKAGE         HTPR           PRIVATION         HKSRELL           CTIVE-C         SQL           ALL BASIC SCRIPT         MATLAB
BNTIFIED         FASOO FILES           FILES         Ø DE, SYS, DUL.           SC         ACC08           SC         SR           K         FDL
EN FI GC

#### 8.2.2. Allowed Files

Allowed Files Allowlists are custom groups of files you exclude from Endpoint Protector sensitive content detection, available for both Content Aware Protection and eDiscovery modules.

9	Dashboard	«🔳 Denylists and Allo	K Denylists and Allowlists - Allowlists												
	Device Control	Allowlists													
2	Content Aware Protection	MIME Type Allowed File File Location Network Share E-mail Domain URL Name Deep Packet Inspection													
	eDiscovery														
	Denylists and Allowlists														
	Denylists <u>Allowlists</u>	Name	Name Description Trems Created by Created at Modified by Modified at - Articles												
	URL Categories	Default File Allowlist	Default File Allowlist		root		root		:=						
0	Enforced Encryption														
	Offline Temporary Password	Showing 1 to 1 of 1 entries						Pre	vious 1 Next						
	Reports and Analysis	Add						l	Back						
	Alerts														
Ø	Directory Services														
	Appliance														
Y	System Maintenance														
٢	System Configuration														
	System Parameters														
	Support														

You can add a new allowlist or edit and delete from the Actions column.

To create a new allowlist, under the list of available allowlists, click **Add**, provide a **name** and **description** and then select a file from the list or upload a new file you can use in multiple allowlists.

Once the allowlist is created, it will be displayed on the Allowed File list and will be available when creating or editing a Content Aware Protection or eDiscovery policy.

	Add						Back
Name:	Add     Name:     Name:     Description:     Description:     Description:     Choose from existing files:     File Name     Extension     Size   Hash     Actions     Vord.docx   docx   1 kB   855869a76249c7c22c2e3f8c8a32405f     Previous     Previous     Upload file:     Choose File						
Descript	ion:	Description					
Choose	from existing files:						
	File Name 🔶	Extension 🔶	Size	Hash		¢	Actions
	Word.docx	docx	12 kB	855869a76249c7c22	c2e3f6c8a32405f		8
Showing	g 1 to 1 of 1 entries						Previous 1 Next
Upload	file:	Choose File					
		Save		Cancel			

#### 8.2.3. File Location

File Location Allowlists are custom-defined lists of locations identified by Endpoint Protector. File transfers within this location are automatically allowed, regardless of the content inspection rules or permissions defined in various Policies.

File Location Allowlists are available for both Content Aware Protection and eDiscovery modules

Enable the **Include subfolders for File Location Allowlists** option to affect all other File Location Denylists and Allowlists throughout the system. By default, the File Location Allowlists apply to all files located in the specific folder but also to any other files located in containing subfolders.

**Important**: In addition to defining the File Location Allowlist, the browser or application used to transfer files also needs to be selected from within the Content Aware Protection Policy.

You can use wildcard patterns in the file location allow list, to specify wildcard matching.

To match a desktop folder on Windows use the pattern "?:\Users\\*\Desktop\".

Wildcards u File Locatio	sage examples for n		
Wildcards Type	File Location	Results matched	Results not matched

Implicit	\\file-share\public	\\file-share\public\jdoe\file.txt \\file-share\public\user512\file2.txt	\\file-share\c\$\file.txt \\file-server\public\jdoe\file.txt
Explicit	\\*\public\*	\\localhost\public\payslip.xlsx \\192.168.20.2\public\Windows\syst em32\notepad.exe	\\localhost\c\$\system32\notepad.exe C:\Windows.old\system32\notepad.exe

1	Dashboard	« Denylists and Allowlists - Allowlists
1	Device Control	Allowlists
P	Content Aware Protection	
	eDiscovery	MIME type Allowed File File Location Network Share E-mail Domain URL Name Deep Packet Inspection
	Denylists and Allowlists	Include subfolders for File Location Allowlists: 0 0FF
	Denylists <u>Allowlists</u> URL Categories	Show 10 v entries
0	Enforced Encryption	Name I Description I Items Created by Created at Addition Modified by Addition Actions
	Offline Temporary Password	No data available in table
	Reports and Analysis	Add
	Alerts	
o	Directory Services	
	Appliance	
Yi	System Maintenance	
٢	System Configuration	
	System Parameters	
	Support	

You can add a new allowlist or edit, delete or export from the **Actions** column.

From this section, you can view and add file location denylists and from the **Actions** column, you can edit, delete or export an existing denylist.

To create a new denylist, under the list of available denylists, click **Add**, provide a **name** and **description**, add the items separated by a new line, comma, or semicolon and then select the **groups** and **computers**.

File Location Allowlists will not apply to groups of users, only to groups of computers. File Location Allowlists will only apply for the selected computer groups after 15 minutes.

Add				Back
Name: Description:	Name Description	ୁ Groups	0	Computers
Content:	e.g.: D:\Example\Default_File_Location	L 2 3 4 5 5		Computer 1 Computer 2 Computer 3 Computer 4 Computer 5 Computer 6 Computer 7

#### 8.2.4. Network Share

Network Share Allowlists are custom-defined lists of network share addresses where transfers of confidential information will be allowed by Endpoint Protector.

#### **Note**: Network Share Allowlists are available only for the Content Aware Protection module.

You can use wildcard patterns in the Network Share Allowlist to specify wildcard matching. The Network Share Allowlist can perform matching the whole file name, not only on the directory name, when wildcard patterns are used.

**Important**: The Network Share must be set to Allow Access and Scan Network Share must be checked inside a Content Aware Protection Policy.

0	Dashboard	« E Denylists and Allowlists - Allowlists											
	Device Control	Allowlists											
P	Content Aware Protection												
	eDiscovery	MIME type Allowed File File Location Network Share E-mail Domain URL Name Deep Packet Inspection											
	Denylists and Allowlists	This feature is only available for Content Aware Protection.											
	Denylists <u>Allowlists</u> URL Categories	Show 10 v entries											
0	Enforced Encryption	Name     Description     Items     Created by     Created at     Modified by     Modified at     Actions											
	Offline Temporary Password	Default Network Share Allowlist Default Network Share Allowlist Default Network Share Allowlist											
	Reports and Analysis	Showing I to 1 of 1 entries Previous 1 Next											
	Alerts	Add Back											
Ō	Directory Services												
	Appliance												
Yi	System Maintenance												
٢	System Configuration												
E	System Parameters												
	Support												

You can add a new allowlist or edit, delete or export from the **Actions** column.

To create a new allowlist, under the list of available allowlists, click **Add**, provide a **name** and **description**, add server name or IP address to define a network share path separated by a new line, comma, or semicolon and then select the **groups** and **computers**.

Network Share Allowlists will not apply to groups of users, only to groups of computers. Network Share Allowlists will only apply for the selected computer groups after 15 minutes.

**Important**: Do not type the network share path with backslashes (\\) 192.168.0.1\public\users\test; fileserver\documents\example

Add	1		Back
Name: Description:	Name Description	Groups 0	Computers
Content:	e.g.: fileserver\share\programs	01 02 03 04 05 06	Computer 1 Computer 2 Computer 3 Computer 4 Computer 5 Computer 6 Computer 7
	Save Cancel	X Search Q	X Search Q

#### 8.2.5. E-mail Domain

E-mail Domain Allowlists are custom-defined e-mail addresses to which sending of confidential information will be allowed by Endpoint Protector.

**Note**: E-mail Domain Allowlists are available only for the Content Aware Protection module.

0	Dashboard	Comparison of Allowlists - Allowlists												
<b>P</b>	Device Control	Allowlists	Allowlists											
P	Content Aware Protection													
	eDiscovery	MIME Type     Allowed File     File Location     Network Share     E-mail Domain     URL Name     Deep Packet Inspection       Image: Content Aware Protection. For the monitored E-mail applications, file transfers to the E-mail Domains listed below will be allowed.     Deep Packet Inspection												
	Denylists and Allowlists													
	Denylists <u>Allowlists</u> URL Categories	Show 10 v entries												
0	Enforced Encryption	Name	Description	¢	Items	0 Cre	ated by	÷	Created at	Modified by	Ŷ	Modified at	•	Actions
	Offline Temporary Password	Default Domain Allowlist	Default Domain Allowlist		2	root			*	root				:=
<u>~</u>	Reports and Analysis	Showing 1 to 1 of 1 entries											Previous	1 Next
	Alerts	Add												Back
Ø	Directory Services													
	Appliance													
٧i	System Maintenance													
ø	System Configuration													
E	System Parameters													
	Support													

You can add a new allowlist or edit, delete or export from the Actions column.

To create a new allowlist, under the list of available allowlists, click **Add**, provide a **name** and **description** and then **type or paste** items at least three characters separated by a new line, comma, or semicolon. You can **import content** using the **sample file** provided on the form.

Once the allowlist is created, it will be displayed on the E-mail Domain list and will be available when creating or editing a Content Aware Protection policy.

Add			
Name:	Name		
Description:	Description		
Content Options:	Type or Paste content	<ul> <li>Import content</li> </ul>	
Content:	e.g.: support@cososys.com, endpo	intprotector.com, etc.	0
	Save	Cancel	

You can use wildcard patterns in the e-mail domain to specify wildcard matching as displayed in the following example.

Wildcards usage examples for         E-mail Domain         E-mail name       Domain         Results matched       Results not matched         @epp.com       robert@epp.com							
E-mail Domain name	Results matched	Results not matched					
@epp.com	robert@epp.com jdoe@epp.com james@epp.com.ca	sara@epp.com jeff@ccs.com					

#### 8.2.6. Deep Packet Inspection

Available only for the Content Aware Protection module, Deep Packet Inspection Allowlists are custom-defined lists or dictionaries with web domains Endpoint Protector will allow confidential information uploads.

<b>(</b>	Dashboard	«E	Denylists	and Allowlis	ts - Allowlists								
	Device Control	Alle	owlists										^
2	Content Aware Protection												
	eDiscovery	M	IIME Type	Allowed File	File Location	Network Share	E-mail	Domain	URL Name	Deep Packet	Inspection		
	Denylists and Allowlists	Ģ	This feature is	only available for C	iontent Aware Protecti	ion. File transfers to the E	Domains an	d URLs listed	d below will be al	lowed.			
	Denylists <u>Allowlists</u> URL Categories		Show 10 🗸	entries									
0	Enforced Encryption	ľ	Name 🖕	Description			¢	Items 🖕	Created by	Created at	Modified by	Modified at	Actions
	Offline Temporary Password		Default DPI List	Required for users etc.	to add account to the	default mail agent, acces	ss iCloud,	6	root	2019-10-07 00:00:00	root	2019-10-07 00:00:00	:=
	Reports and Analysis	s	howing 1 to 1 of	1 entries								Previous	1 Next
	Alerts		Add										Back
ō	Directory Services												
	Appliance												
YI	System Maintenance												
٢	System Configuration												
E	System Parameters												
	Support												

You can add a new allowlist or edit, delete or export from the **Actions** column.

You can create or import up to 100 lists of dictionaries, each dictionary comprising up to 50000 web domains.

**Note**: Dictionaries comprising up to 100 web domains can be edited, but for more extensive dictionaries, you will need to import them again.

To create a new allowlist, under the list of available allowlists, click **Add**, provide a **name** and **description** and then **type or paste** items at least three characters separated by a new line, comma, or semicolon. You can **import content** using the **sample file** provided on the form.

Example: example.endpointprotector, \*example.com, \*example\*, https://website.com, etc.

#### Important: "?" cannot be used to replace a character.

**Note**: Due to Gmail usage, take the following into consideration:

- You need to allow **mail.google.com** for adding e-mail attachments or files using the drag and drop option
- You need to allow **doc.google.com** to add images in the email body

Once the allowlist is created, it will be displayed on the Deep Packet Inspection list and will be available when creating or editing a Content Aware Protection policy.

Name	
Description	
Type or Paste content     Import content	
e.g.: *endpointprotector.com, *endpointprotector*, https://endpointprotector.com, http://endpointprotector.com etc.	3
	Name         Description         Import content         Import content         e.g.: *endpointprotector.com, *endpointprotector*, https://endpointprotector.com etc.         Save

Wildcards usage examples for Deep Packet Inspection						
Domain name	Results matched	Results not matched				
box.com	box.com	Sub.box.com box1.com				
*.box.com	Sub.box.com bad.box.com	Fakebox.com mybox.com				
box.*.com	Box.co.com box.bad.com	Sub.box.co.com Box1.co.com box.co.uk				
box.com.*	Box.com.co box.com.us	Sub.box.com.us box1.com.us				
https://cisco.com	https://cisco.com/drives/downloads/ http://cisco.com/drives/downloads/ ftp://cisco.com/drives/downloads/	https://sub.cisco.com/drives/download s/ https://cisco.com.ca/downloads/				
https://cisco.com*	https://cisco.com.ca/downloads/ http://cisco.com.ca/downloads/	<u>https://sub.cisco.com.ca/downloads/</u> <u>https://bad.cisco.com/downloads/</u>				

Note: Using wildcards will search for domain names, not URLs.

## 8.3. URL Categories

URL Categories are custom-defined lists of web domains that can be set on Content Aware Policies to limit the Deep Packet Inspection monitoring of the web traffic. If no Deep Packet Inspection Monitored URL Category is set on a policy, the Endpoint Protector Client will monitor all web domains by default.

#### Important: URL Categories only apply when the Deep Packet Inspection feature is active.

Blocking content based on URL categories can lead to data loss if not used correctly because it will restrict a policy to a few domain names. Policies must be constantly updated as new URLs need to be added to the categories lists.

0	Dashboard	E Denylists and Allowlists - URL Categories	
Ð	Device Control	URL Categories	^
Ð	Content Aware Protection	This feature is only available for Content Justice Prototion	
	eDiscovery		
	Denylists and Allowlists	Show 10 v entries Excel PDF C3	SV Show/Hide Columns Reload
	Denylists Allowlists	Name 🔮 Description 🔹 Items 🔹 Created by 🔹 Created at 🔹 Modified by 🔹 Modified at	Actions
	URL Categories	No data available in table	
0	Enforced Encryption	Showing 0 to 0 of 0 entries	Previous Next
	Offline Temporary Password	Add	Back
	Reports and Analysis		
	Alerts		
Ø	Directory Services		
	Appliance		
Yi	System Maintenance		
٢	System Configuration		
	System Parameters		
	Support		

You can add a new URL category or edit, delete or export from the Actions column.

To create a new URL category, under the list of available URL categories, click **Add**, provide a **name** and **description** and then **type or paste** items at least three characters separated by a new line, comma, or semicolon. You can **import content** using the **sample file** provided on the form and then select the option based on the number of uploaded items.

Once the URL category is created, it will be displayed on the URL category list and will be available when creating or editing a Content Aware Protection policy.

Name:	Name		
Description:	Description		
Content Options:	Type or Paste content	○ Import content	
Content:	E.g.: http://domain.com domain.com - monitors the *.domain.com - monitors only subdomains, excludin subdomain1.domain.com - monitors the subdomain1 subdomain2.subdomain1.domain.com	main domain including all its subdomains g the main domain www.domain.com L and any of its subdomains like	•
	Save	Cancel	

# 9. Enforced Encryption

# 9.1. Enforced Encryption<sup>1</sup>

Enforced Encryption is a cross-platform solution that protects data with government-approved 256 bit AES CBC-mode encryption. For USB devices, it needs to be deployed on the root of the device. With the intuitive Drag & Drop interface, files can be quickly copied to and from the device.

1	Dashboard	« Enforced Encryption	n - EasyLock		
Ø	Device Control	Deployment			^
P	Content Aware Protection	Manual deployment 🚯			
	eDiscovery	To manually deploy EasyLock and utilit	ze the Enforced Encryption feature, follow the steps below:	3 Fallow the simple rates around	
	Denylists and Allowlists	Select a OSB storage device.     Download or Copy the EasyLock storage device.	package directly to the root of the selected USB	<ul> <li>(3) Pollow the simple setup procedure</li> <li>(4) Copy &amp; Paste or Drag &amp; Drop files</li> </ul>	to encrypt and protect them through EasyLock.
0	Enforced Encryption				
	EasyLock	Select device:	Select device -	Select operating system:	Select operating system -
	Offline Temporary Password	Download			
<u>-</u>	Reports and Analysis	Automatic deployment 🚯			
	Alerts	To automatically deploy EasyLock on a computers where Endpoint Protector 0	Il supported devices or only on specific ones, ensure the "Allow Access if device is Trusted Device Lients are deployed, EasyLock will be automatically pushed on the devices.	e Level 1+" is selected for USB Storage Devi	ces. When USB Storage Devices will be plugged in to
ō	Directory Services				
	Appliance	Settings			^
<b>Yi</b>	System Maintenance	Update EasyLock 🚯			
٢	System Configuration				
	System Parameters	Master Password Settings		User Password Settings	
٥	Support	Enforce Complex Password:		Enforce Complex Password:	
		Define Master Password			
		Old Master Password:	Old Master Password		
		Master Password:	Master Password	Confirm Master Password:	Confirm Master Password
		Save			
		File Tracing			
		File Tracing:	O OFF	Offline File Tracing:	OFF

#### **Note**: For detailed information on Enforced Encryption, refer to the **<u>Enforced Encryption User</u>** <u>**Manual**</u>.

Used in combination with Endpoint Protector, Enforced Encryption allows USB storage devices to be identified as Trusted Device<sup>™</sup> Level 1. This can ensure that USB Enforced Encryption is used on protected computers. Accessing data stored on the device can be done via the password the user configured or via a Master Password set by the Endpoint

<sup>&</sup>lt;sup>1</sup> Formerly known as Easylock

Protector administrator. The encrypted data can be opened by any user only after it is decrypted, therefore requiring the user to copy the information out of Enforced Encryption.

**Important**: Enforced Encryption is not compatible with devices that have a write-protection mechanism in place, preventing the modification or deletion of data. The write-protection mechanism can be enforced using a hardware component (for example a switch on the USB device) or a software component.

**Note**: While Endpoint Protector can detect any Enforced Encryption USB encrypted device as a Trusted Device<sup>™</sup> Level 1, to use the Enforced Encryption feature, a specific Enforced Encryption version must be used. This is available for the Endpoint Protector User Interface.

Enforced Encryption works on read-only mode if the device was formatted on Windows, the Enforced Encryption configured on Windows or some files were encrypted on Windows. On macOS, these files can be decrypted, except for NTFS due to incompatibility with Enforced Encryption.

#### 9.1.1. Enforced Encryption Deployment

Enforced Encryption is supported for both Mac and Windows computers.

Deployment				^
Manual deployment         Image: Comparison of the provided state of the provi	Encryption feature, follow the steps below: y to the root of the selected USB storage device.		<ul> <li>(3) Follow the simple setup procedure and set a pass</li> <li>(4) Copy &amp; Paste or Drag &amp; Drop files to encrypt an</li> </ul>	severd. d protect them through EasyLock.
Select device:	Select device	•	Select operating system:	Select operating system
Automatic deployment () To automatically deploy EasyLock on all supported de the devices.	vices or only on specific ones, ensure the "Allow Access if device	e is Trusted Device Level 1+° is selected for USB Storage Devices. When USB	Storage Devices will be plugged in to computers where E	indpoint Protector Clients are deployed, EasyLock will be automatically pushed on

Deployment can be done automatically if **Allow Access if Trusted Device**<sup>™</sup> **Level 1+** is selected for the USB Storage Devices. This can be done by going to Device Control, Global Rights section, or using the quick links provided, as per the image above.

Manual deployment is also available. Download links for both Windows and Mac are available in this section. The downloaded Enforced Encryption file must be copied onto the USB storage device and executed from the root of the device. Due to extended security features for manual deployment, Enforced Encryption will have to be redownloaded from the Endpoint Protector interface each time it will be used to encrypt a new USB storage device.

**Note**: Starting with Endpoint Protector 5.2.0.0, manual deployment can also be made by the user if the device is set on Allow Access, by pressing the small USB icon- Encrypt Device with Enforced Encryption.

Both Enforced Encryption deployments are straightforward and require the user only to configure a password.

**Note:** On Macs, USB storage devices with multiple partitions are not supported by Enforced Encryption and Trusted Device<sup>™</sup> Level 1.

#### 9.1.2. Enforced Encryption Settings

This section allows you to remotely manage Enforced Encryption encrypted devices. Before being able to take advantage of these features, you must configure a Master Password.

Settings			^
Update EasyLock (2) Automatically:	ON O		
Master Password Settings Enforce Complex Password:	OFF	User Password Settings Enforce Complex Password:	OFF
Define Master Password Old Master Password: Master Password: Save	Cld Master Password Master Password	Confirm Master Password:	Confirm Master Password
File Tracing	OFF	Offline File Tracing:	OFF
Language: Language: Save	English		

In the **Settings** section, the **Master Password** can be configured, the Enforced Encryption File Tracing enabled, as well as defining the installation and execution of Enforced Encryption only on computers where the Endpoint Protector Client is present.

For both the Master Password and the User Password, complex rules can be enforced. If these are enabled, the password lengths, minimum characters, validity, history, and other settings can be set.

Master Password Settings			User Password Settings		
Enforce Complex Password:	ON O		Enforce Complex Password:	ON O	
Minimum password length:	6		Minimum password length:	6	
Minimum password upper case characters:	0		Minimum password upper case characters:	0	
Minimum password lower case characters:	0		Minimum password lower case characters:	0	
Minimum password numbers:	0		Minimum password numbers:	0	
Minimum password special characters:	0		Minimum password special characters:	0	
Consecutive and ascending characters:	Consecutive and ascending characters cannot	•	Consecutive and ascending characters:	Consecutive and ascending characters can be	~
Password Validity:	Never expires	-	Password Validity:	Never expires	~
Password History:	1	•	Password History:	1	~
			Password Retries:	10	
Save			Save		

Endpoint Protector allows tracing of files copied and encrypted on portable devices using Enforced Encryption. This option can be activated from inside the Settings windows located under the Enforced Encryption tab.

File Tracing File Tracing: OFF

By checking the File Tracing option, all data transferred to and from devices using Enforced Encryption is recorded and logged for later auditing. The logged information is automatically sent to the Endpoint Protector Server if the Endpoint Protector Client is present on that computer. This action takes place regardless of the File Tracing option being enabled or not for that specific computer through the Device Control module.

OFF

Offine File Tracing:

In case the Endpoint Protector Client is not present, the information is stored locally in an encrypted format on the device and it will be sent at a later time from any other computer with the Endpoint Protector Client installed.

The additional Offline File Tracing option is an extension to the first option, offering the possibility to store information directly on the device, before being sent to the Endpoint Protector Server. The list of copied files is sent only the next time the device is plugged in and only if the Endpoint Protector Client is present and communicates with the Endpoint Protector Server.

Additionally, Easy Lock performs File Shadowing for the files that are transferred if the Endpoint Protector Client is present and the File Shadowing option is enabled on the computer on which the events occur – through the Device Control module. This is a real-time event and no shadowing information is stored on the device at any given time.

**Note:** Enabling global File Tracing will not automatically activate the File Tracing option on Enforced Encryption Trusted Device<sup>™</sup> and vice versa.

#### 9.1.3. Enforced Encryption Clients

In the Clients list section, all Enforced Encryption enforced devices are listed. By selecting the Manage Client Action a list of Actions History is displayed, as well as the option to manage them by sending a message, changing the user's password, resetting the device, resending the master password, and more.

Clier	ıts list															^
— Fil	Filters v															
	Select all entries															
Sho	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload															
	Name	Device	÷	Description	Serial Number	Last User	ŀ	Last Computer	6	Last Seen 🔻	Departm	ent (	Las	t Main IP	÷ A	ctions
	Pana -	101004		Not Doop-Down	01000-019	-		noncess (1)	1	00010-01780-0	potentia		PC.	81.101.01		=
Showir	g 1 to 1 of 1 en	tries												Pre	evious	1 Next
Ser Ri	howing 1 to 1 of 1 entries     1     Next       Send Messages     Resend Master Password     Change User Password     Update Department       Reset Device     Cancel all pending actions     Each															

#### 9.1.4. Trusted Device<sup>™</sup>

Protecting Data in Transit is essential to ensure no third party has access to data in case a device is lost or stolen. The Enforced Encryption solution gives administrators the possibility to protect confidential data on portable devices in case of loss or theft. Ensuring only encrypted devices can be used on computers where Endpoint Protector is present can be done by utilizing Trusted Device<sup>™</sup>. Trusted Device<sup>™</sup> must receive authorization from the Endpoint Protector Server, otherwise, they will be unusable. There are four levels of security for Trusted Device<sup>™</sup>:

 Level 1 - Minimum security for office and personal use with a focus on software-based encryption for data security. Any USB Flash Drive and most other portable storage devices can be turned into a Trusted Device<sup>™</sup> Level 1. It does not require any specific hardware but it does need an encryption solution such as Enforced Encryption

http://www.endpointprotector.com/en/index.php/products/easylock

- Level 2 Medium security level with biometric data protection or advanced software-based data encryption. It requires special hardware that includes security software and has been tested for Trusted Device<sup>™</sup> Level 2.
- Level 3 High-security level with strong hardware-based encryption that is mandatory for regulatory compliance such as SOX, HIPAA, GBLA, PIPED, Basel II, DPA, or PCI 95/46/EC. It requires special hardware that includes advanced security software and hardware-based encryption that has been tested for Trusted Device<sup>™</sup> Level 3.
- Level 4 Maximum security for military and government use. Level 4 Trusted Device<sup>™</sup> include strong hardware-based encryption for data protection and are independently certified (e.g., FIPS 140). These devices have successfully undergone rigorous testing for software and hardware. It requires special hardware that is available primarily through security-focused resellers.
- Level 1+ Derived from Level 1, it will ensure that Enforced Encryption 2 with Master Password will be automatically deployed on USB storage devices plugged into computers where the Endpoint Protector Client is present.

**Note**: If a Trusted Device<sup>™</sup> Level 1 right is enabled and a Trusted Device<sup>™</sup> level 2, 3 or 4 is connected, the right will apply accordingly.

The table below provides a list of Trusted Device<sup>™</sup>:

Device Names	Trusted Device <sup>™</sup> Level
Enforced Encryption Encrypted devices	1
AT1177	2

UT169	2
UT176	2
Trek ThumbDrive	2
BitLocker Encrypted devices	3
FileVault Encrypted devices	3
Buffalo Secure Lock	3
CTWO SafeXs	3
Integral Crypto	3
Integral Crypto Dual	3
Integral Courier Dual	3
IronKey Secure Drive	3
iStorage datAshur	3
Kanguru Bio Drive	3
Kanguru Defender	3
Kanguru Elite (30, 200 & 300)	3
Kanguru Defender Elite	3
Kingston DataTraveler Locker+	3
Lexar 1 (Locked I Device)	3
Lexar Gemalto	3
SaferZone Token	3
ScanDisk Enterprise	3
Verbatim Professional	3
Verbatim Secure Data	3
Verbatim V-Secure	3
iStorage datAshur Pro	4
Kanguru Defender (2000 & 3000)	4

SafeStick BE	4
Stealth MXP Bio	4

# 10. Offline Temporary Password

In this section, you can generate Offline Temporary Passwords (or OTPs) and grant temporary access rights. In addition to situations when only temporary access is needed, it can also be used when there is no network connection between the protected computers and the Endpoint Protector Server.

The Offline Temporary Password can be generated for the below entities:

- **Device** (a specific device)
- Computer and User (all devices)
- **Computer and User** (all file transfers)

A password is linked to a time period and is unique for a certain device and computer. This means the same password cannot be used for a different device or computer. It also cannot be used twice (except for Universal Offline Temporary Password).

The time intervals available are 15 minutes, 30 minutes, 1 hour, 2 hours, 4 hours, 8 hours, 1 day, 2 days, 5 days, 14 days, and 30 days or Custom.

The Offline Temporary Password Duration offers a customized option, allowing the generation of time-based OTP Codes, with a Start Date/Time and an End Date/Time.

For large companies or multinationals that have the Endpoint Protector Server and the protected endpoints in different time zones, taking into consideration how the Server Time and Client Time work is essential.

**Example:** The Endpoint Protector Server is located in Germany, making the Server Time UTC+01:00.

The protected endpoints are located in Romania, making the Client Time UTC+02:00.

When generating an OTP Code that should take effect tomorrow, from 16:00 on the endpoint time, it should actually be generated for tomorrow, from 15:00 (to adjust for the 1h difference in the time zone).

For the predefined duration, the above adjustment is not necessary. The OTP Code will be valid for that specific amount of time, starting with the moment it was redeemed. The only thing to consider is that the OTP Code needs to be redeemed the same day it was generated.

**Note:** The Universal Offline Temporary Password feature can also be turned on. If enabled, it can be used by any user, on any computer, for any device or file transfers – it eliminates security restrictions for one hour. It can be used multiple times, by any user that knows it.

The **Universal Offline Temporary Password** can be made visible only for Super Administrators. If this setting is enabled, Normal and Offline Temporary Password Administrators will not be able to see and use it. Enable this setting from System Configuration, System Settings, and Custom settings.

You have the option to add a justification, mentioning the reason why the password was created. This can later be used for a better overview or various audit purposes.

Once an Offline Temporary Password has been authorized, any other rights and settings saved afterwards on the Endpoint Protector Server will not take immediate effect. The Offline Temporary Password has to expire and the connection with the Server re-established.

**Note:** The Transfer Limit Reset Offline Temporary Password is only available if the feature is enabled. The main purpose of this type of Offline Temporary Password is to re-establish the Server-Client communication before the Transfer Limit Reset Time Interval has expired.

### 10.1. Generating the Offline Temporary Password

Depending on the options selected from the drop-down menus, the Offline Temporary Password (or OTP) can be generated for an exact device, all devices, or all file transfers.

0	Dashboard	- Contract Password			
	Device Control	To take full advantage of all functionalities, the minimum Endpoint Protector Client versions required are: 47.3.5 for Windows, 1.5.5.8 for Mac and 1.3.1.2 for Linux.			
	eDiscovery	Universal Offline Temporary Password			
	Denylists and Allowlists	The Universal Offline Temporary Presevord can be used by any user, on any computer, for any device or file transfer - it eliminates security restrictions for an hour.			
0	Enforced Encryption	Universal Offine Temporary Password:			
	Offline Temporary Password				
	Offline Temporary Password Offline Temporary Password List	Offline Temporary Password Information			
2	Reports and Analysis	The Offline Temporary Password can be generated based on what a user requests if for, from anywhere between 15 minutes to 30 days. A custom timeframe is also available.			
	Alerts	Details			
6	Directory Services	Offline Temporary Password for:	Device (a specific device)   Device Control ~		
		Duration:	15 min v		
	Appiance	Device Name or Code:	Device Name 👻		
Yi	System Maintenance		Device Code		
Ø	System Configuration	Computer Name or Username:	Computer Name 👻		
	System Parameters		Username v		
	Support	Justification:	Mention the reason why you are creating the OTP		
			Generate		
		·			

When generating an Offline Temporary Password for a Device, you can either introduce the Device Code communicated by the user or search the Endpoint Protector database for an existing device. Alternatively, you can generate an Offline Temporary Password directly from

the Device Control, Computers section, by selecting the Offline Temporary Password option from the Actions column.

When generating an OTP Code for a device, either the Device Code or the Device Name has to be entered (one of them will automatically fill in the other field).

The Computer Name and the Username fields do not need to be both filled in. The OTP Code is perfectly valid if only one of them is provided. However, if the OTP Code needs to be valid for an exact device, on an exact computer, for an exact user, all of the relevant fields need to be filled in.

Once the OTP Code has been generated, it will be displayed on the right side of the image above.

As it needs to be provided to the person that made the request, Endpoint Protector offers two quick ways of doing this, either by sending a direct e-mail or by printing it out.

**Note:** You can edit the Administrator contact information that is displayed to a user from System Configuration, System Settings, as the Main Administrator Contact Details.

Similar to generating an Offline Temporary Password for a specific device, when generating one for all devices or all file transfers, the Computer Name and the Username fields are not both mandatory. The OTP Code is perfectly valid if only one of them is provided. However, if the OTP Code needs to be valid for an exact computer and an exact user, all of the relevant fields need to be filled in.
# 11. Reports and Analysis

This section offers an overview of the System Logs, Device Control Logs and Shadows, Content Aware Logs and Shadows, Admin Actions, Statistics, and other helpful information.

Details regarding eDiscovery Scans and Enforced Encryption can be viewed in their specific sections and not in the Reports and Analysis section.

As an additional security measure, this section may be protected by an additional password set by the Super Administrator, from System Configuration, System Security. For detailed information on System Security, refer to the <u>System Security</u> chapter.

# 11.1.Logs Report

From this section, you can view, sort, and export the main logs in the system. There are several event types such as User Login, User Logout, AD Import, AD Synchronization, Uninstall Attempt, etc., included in this section. Additionally, the main Device Control logs can be viewed in this section.

Dashboard	« 🗐 Reports a	and Analysis - Logs	Report					
Device Control	Logs Report							^
Content Aware Protection	Filterr							
eDiscovery	Filters V							
Denylists and Allowlists	Show 10 V	entries					Excel PDF CSV Show/Hid	a Columns Reload
Enforced Encryption	Event	Computer	Username	Device Type	Device	Date/Time(Server)	Date/Time(Client)	0 Actions
	File Write	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:53:20	2021-02-16 09:53:15	
Offline Temporary Password	File Delete	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:53:20	2021-02-16 09:53:16	
Reports and Analysis	File Copy	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:53:20	2021-02-16 09:53:16	
Loss Denest	File Copy	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:53:19	2021-02-16 09:53:11	
File Tracing	Disconnected	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:52:49	2021-02-16 09:52:31	•
File Shadowing	Connected	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:52:49	2021-02-16 09:52:34	
Content Aware Report	Unblocked	QA MacBook Pro	qa	USB Storage Device	Ultra T C	2021-02-16 09:52:49	2021-02-16 09:52:34	•
Content Aware File Shadowing	Disconnected	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:52:39	2021-02-16 09:52:28	
Online Computers	Connected	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:52:39	2021-02-16 09:52:30	
Online Users	Unblocked	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	2021-02-16 09:52:39	2021-02-16 09:52:30	
Online Devices Statistics	Showing 1 to 10 of 1	138 entries					Previous 1 2 3 4	5 14 Next
Alerts	Create Expor	t View Export List						Back
Directory Services								
E Appliance								
System Maintenance								
System Configuration								
System Parameters								

**Note**: Use the Filters option to view and sort different log types and then export the result list.

# 11.2. File Tracing

This section offers an overview of trace files that have been transferred from a protected computer to a portable device or another computer on the network, and vice versa.

A special mention is given here to the "File Hash" column. Endpoint Protector computes an MD5 hash for most of the files to which the File Tracing feature applies to. This way, mitigating threats coming from changing the file content is ensured.

You can export the search results (as an Excel, PDF, or CSV) or Create and Export containing the entire log report as a .CSV file.

0	Dashboard	«目 Re	ports and Anal	ysis - File T	racing										
	Device Control	File Tr	acing												^
P	Content Aware Protection	Filter													
	eDiscovery	Filter								formation .					
	Denylists and Allowlists	Event:		Arry			~	Computer:		Lisensere					
0	Enforced Encryption	Main I	Times	Plain IP			~	Osername:		Device					
	Offline Temporary Password	VID	type.	VID			•	PID:		PID					
	Departy and Applicate	Serial	la probuer :	Serial Nur	ibir			File Name:		File Name					
	Logs Report	05 Ter	e	Anv			~	Shadows		htty		~			
	File Tracing	Date/T	ime(Server) From:					Date/Time(Serv	ver) To:						
	Content Aware Report	Date/T	ime(Client) From:					Date/Time(Clier	nt) To:						
	Content Aware File Shadowing Admin Actions		Apply	Reset											
	Online Computers Online Users														
	Online Devices Statistics	Show	10 🖌 entries									Excel PDF CS	V Show/Hide Columns	Reload	t
	Alerts	Event	Computer	Username	Device Type	Device 0	File N	ame			🕴 File Type 🛭 👌	Date/Time(Server)	Date/Time(Client)	Actions	φ
		File Dele	te QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	Nolum	es/SANDISK 1/Screenshot 2020-12-04 at 17.52.35.png			png	2021-02-26 13:57:54	2021-02-26 13:57:38		
	Directory Services	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	/Users	iqa/Desktop/office files.xisx -> /Volumes/SANDISK 1/office files.xis	sx		xisx	2021-02-26 13:57:44	2021-02-26 13:57:29	$\odot$	
	Appliance	File Dele	te QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	Nolum	es/SANDISK 1/Screenshot 2020-11-11 at 15.10.05.png			png	2021-02-26 13:57:44	2021-02-26 13:57:35		
	raginarios	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	/Users	iga/Desktop/Screenshot 2020-11-11 at 15.10.05.png -> /Volumes/S	ANDISK 1/Screensho	t 2020-11-11 at 15.10.05.png	png	2021-02-26 13:57:34	2021-02-26 13:57:22	$\odot$	
¥1	System Maintenance	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	/Users	iqa/Desktop/Screenshot 2020-07-13 at 13.32.31.png -> /Volumes/S	SANDISK 1/Screensh	t 2020-07-13 at 13.32.31.png	png	2021-02-26 13:57:34	2021-02-26 13:57:26	$\bigcirc$	
		File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	/Users	iqa/Desktop/Screenshot 2020-11-20 at 15.24.17.png -> /Volumes/S	SANDISK 1/Screensh	t 2020-11-20 at 15.24.17.png	png	2021-02-26 13:57:34	2021-02-26 13:57:23	٩	
$\odot$	System Configuration	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	/Users	iqa/Desktop/Screenshot 2020-12-04 at 16.11.10.png -> /Volumes/S	SANDISK 1/Screensh	t 2020-12-04 at 16.11.10.png	png	2021-02-26 13:57:34	2021-02-26 13:57:19		
	System Parameters	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Gilde	/Users	iqa/Desktop/Screenshot 2020-05-21 at 11.45.55.png -> /Volumes/S	ANDISK 1/Screensh	t 2020-05-21 at 11.45.55.png	png	2021-02-26 13:57:34	2021-02-26 13:57:27	$\odot$	
	a paceta i a anticica a	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Glide	/Users	iqa/Desktop/Screenshot 2020-10-16 at 16.01.14.png -> /Volumes/S	SANDISK 1/Screensh	t 2020-10-16 at 16.01.14.png	png	2021-02-26 13:57:34	2021-02-26 13:57:25	G	
O	Support	File Cop	QA MacBook Pro	qa	USB Storage Device	Cruzer Gilde	/Users	iqa/Desktop/Screenshot 2020-12-04 at 17.52.35.png -> /Volumes/S	SANDISK 1/Screensh	t 2020-12-04 at 17.52.35.png	png	2021-02-26 13:57:34	2021-02-26 13:57:20		
		Showing 1	to 10 of 17 entries										Previous 1	2 1	Next
		Crea	ite Export Vie	w Export List										Back	

### 11.2.1. File Tracing Events by Direction

The "File Tracing Events Matrix by Direction" table is a valuable reference for understanding how Endpoint Protector categorizes file tracing events based on data transfer directions. It offers insight into event handling and helps users customize data protection policies effectively. Whether tracking local transfers or interactions with removable devices and network shares, this table provides a clear overview. It's an essential resource for configuring data protection policies in the Endpoint Protector environment, ensuring strong security and compliance.

Note: This matrix refers to clients from the 5.9.0.0 release and higher.

Please see the table below for a detailed view of the events.

File T	racing Events Matrix	by Direction	
Direction	Windows	macOS	Linux
Local -> Local (Partition 0)	N/A	N/A	N/A
Local -> Removable	Src & Dest	Src & Dest	Src & Dest
Local -> Network share	Src & Dest	Src & Dest	N/A
Local -> Partition 1	Src & Dest	N/A	N/A
Removable -> Local (Partition 0)	Src & Dest	Src & Dest	Src & Dest
Removable -> Removable	Src & Dest	Dest	Src & Dest
Removable -> Network share	Src & Dest	Dest	N/A
Removable -> Partition 1	Src & Dest	Src & Dest	Src & Dest
Network share -> Local (Partition 0)	Src & Dest	Src & Dest	N/A
Network share -> Removable	Src & Dest	Dest	N/A
Network share -> Network share	Src & Dest	Dest	N/A
Network share -> Partition 1	Src & Dest	Src & Dest	N/A
Partition 1 -> Local (Partition 0)	N/A	N/A	N/A
Partition 1 -> Removable	Src & Dest	Src & Dest	Src & Dest
Partition 1 -> Network share	Src & Dest	Src & Dest	N/A
Partition 1 -> Partition 0	N/A	N/A	N/A

Legend:

- Partition 0 -> Boot Partition (OS)
- Partition 1 -> 2nd Partition (e.g., 2nd OS or Data Partition)

# 11.3. Content Aware Report

From this section, you can view Content Aware Logs in the system and detect data incidents corresponding to the Content Aware Policies applied.

9	Dashboard	«E	Reports and An	alysis - Co	ntent Awa	re Report					
1	Device Control	Сог	ntent Aware Repo	ort							^
P	Content Aware Protection										
) /	eDiscovery		itters 🗸								
	Denylists and Allowlists	S	how 10 🗸 entries								
0	Enforced Encryption		Date/Time(Client)	Computer	Username	Source	Destination	Destination Type	File Size	Justification	Actions $\[ \begin{smallmatrix} \label{eq:Actions} \label{eq:Actions} \end{smallmatrix} \end{smallmatrix}$
	Offline Temporary Password	~	2022-10-10 11:52:57	MacBook Air	User 1	/Users/User1/Desktop/samples/7. Tax ID/taxid_spain.txt	Safari	Web Browser	100.00 B	N/A	-
<u></u>	Reports and Analysis	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013.logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	-
	Logs Report	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	-
	File Shadowing Content Aware Report	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	
	Content Aware Report Content Aware File Shadowing Admin Actions	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_Jogs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	-
	Online Computers Online Users	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	
	Online Devices Statistics	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	•
	Alerts	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	
Í	Directory Services	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	
	Appliance	~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]	Safari	Web Browser	18.89 MB	N/A	
Yi	System Maintenance	Shov	ving 1 to 10 of 200 entries					Previous 1	2 3	4 5	20 Next
ø	System Configuration		County Descent	Inc. Francisk I In							Dl-
	System Parameters		Create Export V	iew Export Lis	L						Back

When using the latest Endpoint Protector client, you can view log details structured per file scanned.

Expand each entry from the log report list to view the Log Details expanded section, providing the following information:

- Policy select an active policy from the drop-down list
- **Policy name** the name of the selected policy
- Policy type the type of the selected policy
- Items type the Policy Denylist category selected
- Matched type the Policy Denylist type selected
- Matched items click the link to view a pop-up window with the list of matched items

×

Matched Items

A58818501			
A58818501			

Cancel
--------

#### • Count - the number of matched items

Co	ntent Aware Repo	ort											^
— F	ilters 🗸												
S	how 10 🗸 entries												
	Date/Time(Client)	Computer	Username 🖕	Source			\$	Destinati	ion $_{\mbox{$$$$$$$$}}$	Destination Type	File Size	Justification	Actions
^	2022-10-10 11:52:57	MacBook Air	User 1	/Users/User1/Desktop	p/samples/7. Tax ID/taxid_spain.txt			Safari	v	Veb Browser	100.00 B	N/A	-
	Log Details												
	Select Policies:	Seler IS	Policy Type	A	* Bama Tune	Matched	Type	A	fatched	Items		Count	
	tax id spain	v	Standard	v	Predefined Content	tax-id/es	1990	A	5881850	<u>01</u>		10	v
	Showing 1 to 1 of 1 entrie	S										Previous 1	Next
~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downlo [logs_1665390013/log	ads/audit_logs_2022_10_10-10_20_13.tar* gs/cflog21665390013.csv]			Safari	v	Veb Browser	18.89 MB	N/A	
*	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downlo [logs_1665390013/log	ads/audit_logs_2022_10_10-10_20_13.tar* gs/cflog21665390013.csv]			Safari	v	Veb Browser	18.89 MB	N/A	-
*	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downlo [logs_1665390013/log	ads/audit_logs_2022_10_10-10_20_13.tar* gs/cflog21665390013.csv]			Safari	v	Veb Browser	18.89 MB	N/A	-
•	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downlo flogs 1665390013/log	ads/audit_logs_2022_10_10-10_20_13.tar* ns/cflor/2 1665390013.csv1			Safari	v	Veb Browser	18.89 MB	N/A	-

From the **Filters** section, check the **Include old logs prior to 5.7 upgrade** option from the filter section to include all logs in your searches. If the option is not selected, the filters will apply only to the new structure of logs.

Content Aware Report					^
Filters A					
Computer:	Computer	]	Source IP-address:	Source IP-address	
Username:	Username		Source:	Source	
Destination:	Destination		Destination Type:	Destination Type	
✓ Include old logs prior 5.7 upgr	ade				
Policy Name:	Policy Name		Item Type:	Item Type	
Matched Type:	Matched Type	]	Matched Item:	Matched Item	
OS:	OS		VID:	VID	
PID:	PID	]	Serial Number:	Serial Number	
Event:	Any		Shadows:	Any	~
Date/Time(Server) From:	<b></b>		Date/Time(Server) To:		i
Date/Time(Client) From:	<b>H</b>		Date/Time(Client) To:		i
Apply	Reset				

**Note**: For Mac users, when the DPI (Deep Packet Inspection) feature is enabled on the EPP agent for Mac, there might be certain scenarios where the agent does not provide full destination details for files being transferred from a network share through monitored applications, such as browsers. In such cases, the destination information may not be fully captured in the monitoring process

**Note**: For Linux users, it's important to note that the EPP agent does not currently support network share visibility, except in situations where files are being transferred from a network share through DPI monitored applications, like browsers. In other scenarios, network share visibility might not be available.

#### 11.3.1. Export Content Aware Reports

You can export Content Aware Logs as an Excel, PDF, or CSV or create and export the entire log report as a CSV or XLSX file.

 Excel/PDF/CSV – situated above the Content Aware Reports list, this will export only the default columns

	Б	ccel	PDF	CS\	/	Show/Hide Colum	ns	Reload	]
pe	\$	File	Size	*	Jus	tification		Actions	\$
		0.00	в		N/A			-	

• **Create Export** – situated below the Content Aware Reports list, this will create an export containing all data, including the expanded Logs Details section with columns Policy Type, Policy Name, Item type, Matched type, Matched items and Count.

•	2022-10-10 11.40.20	MILLOUDER AI	03011	[logs_1665390013/logs/cflog21665390013.csv]
~	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]
Show	ing 1 to 10 of 200 entries			
	Create Export Vi	ew Export List		

After the message that is displayed that **A new export has been made and is available on Export List**, click **View Export List** to open the list of Reports, where you can download or delete a report.

	2022-10-10 11.40.20	MacDook All	03011	[logs_1665390013/logs/cflog21665390013.csv]
*	2022-10-10 11:40:28	MacBook Air	User 1	/Users/User1/Downloads/audit_logs_2022_10_10-10_20_13.tar* [logs_1665390013/logs/cflog21665390013.csv]
Show	ving 1 to 10 of 200 entries	)		

Results						
	Name	Description	Created at +	From Date	To Date	Actions
	export_cap_logs_2022_10_10-12_13_51		10-Oct-2022 12:14:41			
	export_cap_logs_2022_10_10-12_13_48		10-Oct-2022 12:13:51			
	export_cap_logs_2022_10_10-12_09_29		10-Oct-2022 12:10:20			
	export_cap_logs_2022_10_10-12_08_48		10-Oct-2022 12:09:29			
4 results [	50 🗸 per page]					
1	Back Delete					

# 11.4. Admin Actions

This section offers an overview of every important action performed in the interface. From the Action column, you can view additional information.

0	Dashboard	« Reports and Analysis - A	Idmin Actions										
	Device Control	Admin Actions					^						
	Content Aware Protection	Ellterr											
	eDiscovery	Filters A											
	Denylists and Allowlists	Administrator: An	y ~	UI Section:	Any	~							
	Enforced Encryption	Activity: An	y •	Operation:	Any	~							
	Offline Temporary Password	Created at:	eated at:										
	Deposts and Analysis	Apply Reset											
	Loos Report	Show 10 v entries				Excel PDF CSV Show/Hide Columns	Reload						
	File Tracing												
	File Shadowing Content Aware Report	Administrator	0 UI Section	Activity	Operation	Created at	Actions						
	Content Aware File Shadowing	root	Content Aware Policies	CHANGE STATUS	Edited	2021-02-26 14:09:20	۲						
	Admin Actions Online Computers	root	File Shadows Repository	ENABLE/DISABLE	Edited	2021-02-26 14:05:29	۹						
	Online Users	root	Content Aware Policies	CHANGE STATUS	Edited	2021-02-26 13:57:16	۹						
	Online Devices Statistics	root	Content Aware Policies	CHANGE STATUS	Edited	2021-02-26 13:57:13	۲						
	Alasta	root	Content Aware Policies	CHANGE STATUS	Edited	2021-02-26 13:57:11	۹						
	Alerts	root	Content Aware Policies	CHANGE STATUS	Edited	2021-02-26 13:57:09	۹						
	Directory Services	root	Computer Rights	EDIT	Edited	2021-02-26 13:56:34	9						
	Appliance	root	Computer Rights	EDIT	Edited	2021-02-26 13:56:33	9						
¥1	System Maintenance	root	eDiscovery Scans	APPLY - Clean scan	Edited	2021-02-26 13:47:58	۹						
	0	root	eDiscovery Policy	EDIT	Edited	2021-02-26 13:47:47	۹						
	System Configuration	Showing 1 to 10 of 218 entries				Previous 1 2 3 4 5	22 Next						
	System Parameters												
	Support												

# 11.5.Online Computers

This section offers an overview of computers registered on the system which have an established connection with the server.

If the Refresh Interval for computer X is 1 minute, then computer X was communicating with the server in the last 1 minute.

🕥 Dashboard	« 🗐 Reports and Analysis -	- List of Online Compu	ters				
Device Control	List of Online Computers						^
Content Aware Protection	Eilters A						
eDiscovery	Construction of Construction	Semandar Nama			Heername		
Denylists and Allowlists	Maie 10	fain TD		Username:	TD Liet		
Enforced Encryption	MAC Address:	IAC Address		Domain:	Domain		
Offline Temporary Password	Workgroup: W	Vorkgroup		Location:	Location		
Reports and Analysis	0S: 0	05					
Logs Report File Tracing File Shadowing Content Aware Report Content Aware File Shadowing Admin Actions	Apply Res	set			Excel PDF	CSV Show/Hide	Columns Reload
Online Computers Online Users	Computer Name	▲ Username	Main IP	MAC Address	Domain 🔶	Workgroup	Actions
Online Devices	MacBook Air	User 1	192.000.000.8	00-00-00-4D-B2		WORKGROUP	:=
	Computer-LP2	User 1	0000:a58:0000:5300:0000:debb:0000	00-00-00-00-46-A1		WORKGROUP	:=
Alerts	Showing 1 to 2 of 2 entries						Previous 1 Next
Directory Services							Back
Appliance							
System Maintenance							
System Configuration							
System Parameters	I						

# 11.6.Online Users

This section offers an overview of users registered on the system which have an established connection with the server.

0	Dashboard	« E Reports and Ar	alysis - List of Online	Users							
Ø	Device Control	List of Online Users									^
	Content Aware Protection										
	eDiscovery	Filters A									
	Denylists and Allowlists	Username:	Username			First Name:	First Name				
	Enforced Encryntion	Last Name:	Last Name			Computer Name:	Computer Name				
		Main IP:	Main IP			Connected Devices:	Connected Devices				
	Offline Temporary Password	Employee ID:	Employee ID			Domain:	Domain				
2	Reports and Analysis	Apply	Reset								
	Logs Report File Trading File Shadowing Content Aware Report	Show 10 v entries						Excel PDF	CSV	Show/Hide Columns	Reload
	Content Aware File Shadowing	Username	First Name	🔶 Last Name	Computer Name	🔶 Main IP	Connected D	evices		0 Actions	
	Admin Actions Online Computers	Lation								:=	
	Online Users	Larisa								:=	
	Statistics	Lenit								:=	
	Alerts	Lariso								:=	
	Directory Services	Links								:=	
	Anniance	Larise			Mathematikasio	100 100 10 147				:=	
	Арриансе	Lariss								:=	
Yi	System Maintenance	Larisa								:=	
۲	System Configuration	1017								:=	
	System Parameters	Linner			gop inconversion i					:=	
١	Support	Showing 1 to 10 of 54 entries						Prev	ious 1	2 3 4 5	6 Next
											Back

### **11.7.Online Devices**

This section provides an overview of devices registered on the system which have an established connection with the server.

🕥 Dashboard	« Reports and Analysi	is - List of Online Device	es					
Device Control	List of Online Devices							^
Content Aware Protection	Eilter							
eDiscovery	Filters o							
Denylists and Allowlists	Computer Name:	Computer Name			Username:	Username		
	Main IP:	Main IP			Device Name:	Device Name		
	Device Type:	Device Type			VID:	VID		
Offline Temporary Password	PID:	PID			Serial Number:	Serial Number		
Reports and Analysis	Device Code:	Device Code						
Logs Report	Apply	Reset						
File Inacing File Shadowing								
Content Aware Report Content Aware File Shadowing	Show 10 🗸 entries					Excel	PDF CSV Show/H	ide Columns Reload
Admin Actions	Computer Name	Username	Device Name		0	Device Type	Device Code	Actions
Online Users	CRISTIANA							:=
Online Devices Statistics	CRISTANA							:=
Alerts	CRISTING							:=
Directory Services	CRETAN							:=
	DATION.							:=
Appliance	LARIS							:=
System Maintenance	LANSAL							:=
System Configuration	LARISA							:=
System Parameters	OA Murbook Pro							:=
0 Support	QA MAN CONTROL							:=
	Showing 1 to 10 of 15 entries						P	revious 1 2 Next

### 11.8.Statistics

The Statistics module allows you to view system activity regarding data traffic and device connections. The integrated filter makes generating reports easy and fast. Simply select the field of interest and click Apply Filter.

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Dashboard	« Statistics					
Device Control	Search Criteria					
Content Aware Protection	Report:	Most Active	e (Data Traffic) 🗸 🗸			
eDiscovery	Period:	Please Sele	d <b>v</b>			
Denylists and Allowlists	Q Apply filter	Update statistics	v			
O Enforced Encryption	Results					
Offline Temporary Password	Username	First Name	Last Name	E-mail	Total Data Transferred	
Reports and Analysis	qa Windows io					
Logs Report	2 results					
File Shadowing						
Content Aware Report						
Content Aware File Shadowing Admin Actions						
Online Computers						
Online Users						
Online Devices						
Directory Services						
Appliance						
System Maintenance						
System Configuration						
System Parameters						
Support						

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10			
ΙΖ.	Alerts		

From this section, you can define E-mail Alerts for the main events detected by Endpoint Protector: System Alerts, Device Control Alerts, Content Aware Alerts, and Enforced Encryption Alerts.

**Note:** Before creating alerts, make sure the Endpoint Protector E-mail Server Settings have been configured from the System Configuration, System Settings section. You also have the option to verify these settings by sending a test E-mail.

For each Administrator to appear in the list of recipients for the Alerts, this has to be provided under the Administrator details from the System Configuration, System Administrators section.

-mail Server Settings		
*Note: The test e-mail will be sent t	0	11.1 m m
Hostname:	smtp.gmail.com	Example: smtp.cososys.com
SMTP Port:	465	Example: 25 (Gmail uses port 465 for SSL and 587 for TLS/STARTTLS)
Require SMTP Authentication:		
Username:	THE OWNER OF THE OWNER	Example: Your full email address (including @cososys.com).
Password:		Your SMTP password.
Encryption Type:	SSL 💌 Example: None, SSL	L or TLS/STARTTLS.
Send test e-mail to my account:		
roxy Server Settings		
IP:		
Username:	1000	

### 12.1.System Alerts

From this section, you can create system alerts, including APNS certificate expiry, updates and support expiry, endpoint licenses used, etc.

Dashboard	« 🗐 Alerts - System Alerts	
Device Control	List of Alerts	^
Content Aware Protection		
eDiscovery	Select all entries	
Denylists and Allowlists	Show 10 v entries	Excel PDF CSV Show/Hide Columns Reload
Enforced Encryption	Event Alert Name	Actions
Offline Temporary Password	No data available	in table
Reports and Analysis	Showing 0 to 0 of 0 entries	Previous Next
Alerts	Create View History Delete	Back
<u>System Alerts</u> Device Control Alerts Content Aware Alerts EasyLock Alerts		
Directory Services		
E Appliance		
System Maintenance		
System Configuration		
System Parameters		
🦲 Support		

#### 12.1.1. Creating a System Alert

To add a new Alert, click **Create**, provide the required information and then click **Save**.

- 1. **Event –** select the type of event that generates the alert
  - Updates and Support set an alert regarding each module's maintenance status (Device Control, Content Aware Protection, and eDiscovery);

**Note**: You can disable the Update and Support system alert from General Dashboard, System Status.

- Endpoint Licenses set an alert to be notified of the percentage of used Endpoint Licenses and eliminate the risks of having unprotected endpoints as each network is constantly growing. Define alerts when the percentage of used Endpoint Licenses reaches 70%, 80%, or 90%.
- Client Uninstall set an alert each time an Endpoint Protector Client is uninstalled for better management of an extensive network. This is particularly helpful when there are several assigned Administrators.
- Server Disk Space set an alert to be notified of the Server Disk Space status and ensure Server Disk Space remains available for logs to be stored and policies are correctly applied.

Define alerts when disk space reaches 70%, 80%, or 90% and then select the monitored partitions from the available root, epp and boot.

- Device Control Logs Amount set an alert each time the Number of Device Control Logs Stored reaches a specific amount. Select from the available intervals or define a custom value.
- Content Aware Logs Amount set an alert each time the Number of Content Aware Logs Stored reaches a specific amount. Select from the available intervals or define a custom value.

- **Password Expiration** set an alert to be notified when a password is about to expire. Define the alert using the 10, 5, or 1 day options.
- Not Seen Online set an alert each time a protected endpoint has not been seen online in the specific timeframe. Select an option from the available intervals or define a custom interval. This alert can also identify computers where the Endpoint Protector Client might have been uninstalled.
- **Unplanned Client Termination** set an alert to identify when a user tries to terminate the Endpoint Protector process.
- 2. Alert Name add a name for the alert
- Options based on the type of alert you selected, define the alert using the additional options
- 4. Administrators select the Administrators that will receive the alerts.

🕥 Dashboard	« Alerts - System Alerts	- Create		
Device Control	Alert Information			^
Content Aware Protection	Details			
eDiscovery	Event:	Endpoint Licenses	× 🗸 -	· · · · · · · · · · · · · · · · · · ·
Denylists and Allowlists	Alert Name:	Name		Administrators
Enforced Encryption	Alert Description:	Percentage of already used Endpoint Licenses	0	✓ root
Offline Temporary Password	Options:	× 80% × 70% × 90%	✓ x	
Reports and Analysis				
Alerts				X Search Q
System Alerts Device Control Alerts				
Content Aware Alerts EasyLock Alerts	Save			Back
Directory Services				
Appliance				
System Maintenance				
System Configuration				

#### 12.1.2. System Alerts History

From this section, you can view a history of the System Alerts. Alerts that are no longer needed for auditing purposes can later be deleted.

0	Dashboard	«目 A	Alerts - System Aler	ts History									
	Device Control	List	of System Alerts His	tory									^
	Content Aware Protection												
-7	eDiscovery	Filt	ters A										
	Denylists and Allowlists	Ever	nt:		*	Alert	Name:	Alert Name					
0	Enforced Encryption	Ever	nt Option:	Deset	Ŷ								
	Offline Temporary Password		Афріу	Reset									
200	Reports and Analysis	Sho	w 10 💙 entries							Excel PDF	CSV Show	/Hide Columns	Reload
	Alerts		Event		Alert Name	Option		÷	Created at			Actions	÷
	System Alerts		Endpoint Licenses		Default System Alert	Device Control			2021-02-26 08:0	0:03		:=	
	Device Control Alerts Content Aware Alerts		Endpoint Licenses		Default System Alert	Content Aware Protection for Windows			2021-02-26 08:0	0.03		:=	
	EasyLock Alerts		Endpoint Licenses		Default System Alert	Content Aware Protection for Mac OS X			2021-02-26 08:0	0:03		:=	
Ø	Directory Services		Endpoint Licenses		Default System Alert	Content Aware Protection for Linux			2021-02-26 08:0	0:03		:=	
	Appliance		Endpoint Licenses		Default System Alert	eDiscovery for Windows			2021-02-26 08:0	0:03		:=	
Yi	System Maintenance		Endpoint Licenses		Default System Alert	eDiscovery for Mac OS X			2021-02-26 08:0	0:03		:=	
Ø	System Configuration		Endpoint Licenses		Default System Alert	eDiscovery for Linux			2021-02-26 08:0	0:03		:=	
	System Parameters	Showin	g 1 to 7 of 7 entries									Previous	1 Next
	Support											_	
			Delete										Back

# **12.2. Device Control Alerts**

From this section, you can create Device Control alerts, for events such as Connected, File Read, File Write, Enforced Encryption – successfully deployed, etc.

Dashboard	«目 /	Alerts - Device Control A	lerts										
Device Control	List	of Alerts								^			
Content Aware Protection		Colorball antice											
eDiscovery		Select all entries											
Denylists and Allowlists	Sho	ihow 10 v entries Excel PGF CSV Show/Hide Columns Reload											
Enforced Encryption		Event	Alert Name	Device Type	Devices	Groups	Computers 0	Users	Actions	φ			
Offline Temporary Password		The Bank	-	NQ.	ang .		Real Production	Rena	:=				
Reports and Analysis	0	(her bits	19	89	84		89000	Reno	:=				
Alerts		Paritica (Th	10.0	Arts	hely.		###03-04	Parto	:=				
System Alerts	D	Pin line and	10m	hes	here		man or other	Perior	:=				
Device Control Alerts Content Aware Alerts		Paribase	10	here	tere .		and the of	Perior	:=				
EasyLock Alerts	Showin	ng 1 to 5 of 5 entries							Previous 1	Next			
Directory Services													
		Create View Histor	Delete						Back				
System Maintenance													
System Configuration													
System Parameters													
🦲 Support													

### 12.2.1. Creating a Device Control Alert

To add a new Alert, click **Create**, provide the required information, and then click **Save**.

- 1. Event select the event type that generates the alert;
- 2. Alerts Name add a name for the alert;
- 3. Device Type select the device type from the drop-down list of available devices;
- 4. Devices select the specific device already available in the system;
- 5. Monitored Entities select the Groups, Computers, or Users that generate the event;
- 6. Administrators select the Administrators that will receive the alerts.

0	Dashboard	« Alerts - Device Contro	l Alerts - Create					
1	Device Control	Alert Information						^
P	Content Aware Protection	Details						
	eDiscovery	Event:	Unplanned Client Termination	× 🗸 🔻	]		â	*
	Denylists and Allowlists	Alert Name:	Name				Administrators	
0	Enforced Encryption	Alert Description:	Unplanned Client Termination		0	voot	1	
	Offline Temporary Password	Options:	Options					
	Reports and Analysis							
	Alerts					×s	earch	Q
	System Alerts Device Control Alerts							
	Content Aware Alerts EasyLock Alerts	Monitored Entities						^
Ø	Directory Services				Ę.			
	Appliance	Group	5	Cor	nputers		Users	
۲i	System Maintenance			User User_1			Jser Jser 1	
٢	System Configuration			[] 0361_2			3961 Z	
E	System Parameters							
	Support	× Search	Q	X Search	۹	×	Search	٩
		Save						Back

# 12.2.2. Device Control Alerts History

From this section, you can view a history of the Device Control Alerts. Alerts that are no longer needed for auditing purposes can later be deleted.

👩 Dashboard	« 🗐 Alerts - 🛙	E Alerts - Device Control Alerts History							
Device Control	List of Device	Alerts History							^
Content Aware Protection	Filters								
eDiscovery	Filters A								
Denylists and Allowlists	Event:	Any		Ŧ		Computer:			
O Enforced Encryption	Device Type:	Any		¥		User:			
Offline Temporary Password	Device:					Data (Vices) (Consult Vice			
Reports and Analysis	Date/Time/Client	) From:		-		Date/Time(Server) To:			
Alerts	Apply	Reset		-		Date Interchency to:		-	
System Alerts									
Device Control Alerts Content Aware Alerts	Stow 10 v entries Excel F0F C5V Show/hile Columns Reload					Columns Reload			
EasyLock Alerts	Event	Device Type	Device	Computer	User d	Date/Time(Server)	Date/Time(Client)	Alerts Generated	Actions
Directory Services	Connected	USB Storage Device	Cruzer Glide	QA MacBook Pro	qa	2021-02-26 14:59:00	2021-02-26 14:58:47	1	:=
🕞 Appliance	Connected	USB Storage Device	Ultra T C	QA MacBook Pro	qa	2021-02-26 14:59:00	2021-02-26 14:58:42	1	:=
🔢 System Maintenance	Connected	USB Storage Device	Cruzer Glide	QA MacBook Pro	qa	2021-02-26 14:57:19	2021-02-26 14:57:06	1	:=
System Configuration	Connected	USB Storage Device	Ultra T C	QA MacBook Pro	qa	2021-02-26 14:57:19	2021-02-26 14:57:06	1	:=
System Parameters	Connected	USB Storage Device	DT microDuo 3.0	QA MacBook Pro	qa	2021-02-26 14:56:49	2021-02-26 14:55:47	1	:=
Support	Connected	USB Storage Device	DT microDuo 3.0	QA MacBook Pro	qa	2021-02-26 14:56:49	2021-02-26 14:55:48	1	:=
	Connected	USB Storage Device	DT microDuo 3.0	QA MacBook Pro	qa	2021-02-26 14:56:49	2021-02-26 14:55:50	1	:=
	Connected	USB Storage Device	Ultra T C	QA MacBook Pro	qa	2021-02-26 14:56:49	2021-02-26 14:55:50	1	:=
	Connected	USB Storage Device	DT microDuo 3.0	QA MacBook Pro	qa	2021-02-26 14:56:09	2021-02-26 14:55:46	1	:=
	Showing 1 to 9 of 9	entries							Previous 1 Next
									Back
									Back

### 12.3.Content Aware Alerts

From this section, you can create Content Aware alerts, for events such as Content Threat Detected or Content Threat Blocked.

🕥 Dashboard	«目 Alerts - Content Aware Alerts
Device Control	List of Alerts
Content Aware Protection	
eDiscovery	
Denylists and Allowlists	Show 10 v entries Excel PDF CSV Show(Hide Columns Reload
Enforced Encryption	Event         Allor Hame         Content Policy         Groups         Computers         Users         Actions         Content Policy
Offline Temporary Password	
Reports and Analysis	Shaving 1 to 1 of 1 entries
Alerts	Create View History Dekte Back
System Alerts Device Control Alerts	
Content Aware Alerts EasyLock Alerts	
Directory Services	
🚍 Appliance	
🖬 System Maintenance	
System Configuration	
System Parameters	
5 Support	

#### 12.3.1. Creating a Content Aware Alert

To add a new Alert, click **Create**, provide the information required and then click **Save**.

- 1. **Event -** the event type that generates the alert (Content Threat Detected or Content Threat Blocked)
  - Content Threat DetectedDPI bypasswhitelist
  - Content Threat Blocked
  - Content Remediation Session Active
  - Content Remediation Request Canceled by User
  - DPI Bypassed Traffic
- 2. Alerts Name add a name for the alert
- 3. **Content Policy** select a policy to apply the alert (this field is not available if you select DPI Bypass Traffic event)
- 4. Administrators select the Administrators that will receive the alerts.
- 5. Monitored Entities select the Groups, Computers, or Users that generate the event

The alert sent on the email will also include a CSV file with a report of the threats found.

**Note**: Before creating the alert, ensure the selected Content Aware Policy is enabled on the chosen Computer, User, Group, or Department.

ENDPOINT PROTECTOR	Protecting data where it matters most
Hi User,	
This is a Content Aware alert from Protector customer with the follow	Endpoint Protector. You are a registered Endpoint ing information:
Company Name:	Company
Main Administrator Name:	User
Main Administrator Email:	user@company.com
Server IP:	192.000.00.000
1465 threats were detected as	per Content Threat Blocked
For more information, please see the	attached file.
For additional information, please	login to Endpoint Protector.
To stop receiving alert e-mails reg	arding the selected event, please delete the predefined
alert from Alerts Section within the	e Endpoint Protector main menu.
Have a safe week!	e endpoint Protector main menu.

0	Dashboard	« Alerts - Content Aware Alert	s - Create					
Ø	Device Control	Alert Information						^
P	Content Aware Protection	Details						
-7	eDiscovery	Event:	None	Υ			2	
	Denylists and Allowlists	Alert Name:	Name				Administrators	
0	Enforced Encryption	Content Policy:	Any	¥		root     TestMoninistrator		
	Offline Temporary Password					Administrator		
2	Reports and Analysis							
	Alerts					X Search		Q
	System Alerts Device Control Alerts							
	Content Aware Alerts EasyLock Alerts	Monitored Entities						^
0	Directory Services	Group	21	Computers			Users	
	Appliance			FGsPku2IPhH9		□ V3dSsRwMEk	00010	
٧i	System Maintenance	Group1		skJQh1MCvGUm o5UkrAu7gWXB	- 1	KKX3qUNmh7     ptfZQlkF5H		
٢	System Configuration	Groups 3		qZjfg0pJk8AB     aneF382seWMG	- 1	EOLSSeKp1o		
	System Parameters			xgONdLpELIU2		ImmZlckGSp nxq9pin9Ho		
	Support	X Search	Q	× Search	Q	X Search		Q,
		Save						Back

### 12.3.2. Content Aware Alerts History

From this section, you can view a history of the Content Aware Alerts. Alerts that are no longer needed for auditing purposes can later be deleted.

Dashboard	« Alerts - Content Aware A	«El Alerts - Content Aware Alerts						
Device Control	List of Alerts	List of Alerts						
Content Aware Protection								
eDiscovery	Select all entries	Select all entries						
Denylists and Allowlists	Show 10 v entries	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload						
inforced Encryption	Event	Alert Name	Content Policy	🖕 Groups 🖕	Computers	Users Actions	¢	
Offline Temporary Password	Content Threat Detected	QA2	Test			:=		
Reports and Analysis	Showing 1 to 1 of 1 entries					Previous 1	Next	
Alerts	Create May Histor							
System Alerts Device Control Alerts <u>Content Aware Alerts</u> EasyLock Alerts		y Delete	-			Back		

# 12.4. Enforced Encryption Alert

From this section, you can create Enforced Encryption alerts, for events such as password changes, messages sent, etc.

🕥 Dashboard	<目 Alerts - EasyLock Alerts
Device Control	List of Alerts ^
Content Aware Protection	Develop
eDiscovery	
Denylists and Allowlists	Show 10 v entries Excel PDF CSV Show Hide Columns Reload
Enforced Encryption	Event Aldert Name Atlons
Offline Temporary Password	No data available in table
Reports and Analysis	Showing 0 to 0 of 0 entries Next
Alerts	Grade Vew History Dolete Back
System Alerts Device Control Alerts Content Aware Alerts <u>EasyLock Alerts</u>	
Directory Services	
G Appliance	
System Maintenance	
System Configuration	
5ystem Parameters	
Support	

#### 12.4.1. Creating an Enforced Encryption Alert

To add a new Alert click Create, provide the required information and then click Save.

- 1. Event select the type of event that generates the alert
  - Send Message
  - Change Master Password
  - Change User's Password
  - Reset Device
  - Change Settings Installation and Execution
  - Re-deploy Client
  - Master Password Login Success

- Password Login Failure
- Password Login Exceeded
- 2. Alerts Name add a name for the alert
- 3. Administrators select the Administrators that will receive the alerts.

0	Dashboard	« 🗐 Alerts - EasyLock Alerts - Cre	ate			
	Device Control	Alert Information				^
	Content Aware Protection	Details				
-7	eDiscovery	Event:	None ~	-	2	
	Denylists and Allowlists	Alert Name:	Name		Administrators	
0	Enforced Encryption			root		
	Offline Temporary Password			Administrator		
2	Reports and Analysis					
	Alerts			X Search		Q
	System Alerts Device Control Alerts					
	Content Aware Alerts EasyLock Alerts	Save			Be	ick
	Directory Services					
	Appliance					
Yi	System Maintenance					
Ø	System Configuration					
	System Parameters					
	Support					

# 12.4.2. Enforced Encryption Alert History

From this section, you can view the history of the Enforced Encryption Alerts. Alerts that are no longer needed for auditing purposes can later be deleted.

0	Dashboard	×۵	E Alerts - EasyLock Alerts History									
Ø	Device Control	List	Ist of EasyLock Alerts History					^				
	Content Aware Protection		ilters .									
	eDiscovery											
	Denylists and Allowlists	E E	vent:	Any	*		Device:	Device				
0	Enforced Encryption	D	evice VID:	Device VID			Device PID:	Device PID				
	Offline Temporary Password	D	evice Serial Number:	Device Serial Number			Identification:	Identification				
	Reports and Analysis		omputer:	Computer			User:	User				
	Alaste		Аррту н	æsec								
	Aierts System Alerts	s	now 10 🗸 entries						Excel	PDF CSV	Show/Hide Columns	Reload
	Device Control Alerts											
	Content Aware Alerts EasyLock Alerts		Event	^	Device 0	Identification 0	Computer	User	Created at		Actions	0
6	Directory Services		Change Master Password		Cruzer Glide	test catalina	QA MacBook Pro	qa	2021-02-26 15:16	:08	:=	
	Appliance	Show	ing 1 to 1 of 1 entries								Previou	s 1 Next
Yi	System Maintenance		Delete									Back
Ø	System Configuration											
	System Parameters											
	Support											



From this section, you can import and synchronize the entities (Users, Computers, and Groups) from the company's Active Directories.

Dashboard	« Directory Servi	Directory Services - Synchronizations					
Device Control	New Connection				¥		
Content Aware Protection	Name	Sunchronization Name		Description	Supermutation Description		
eDiscovery	Connection Type:	Standard *		Server:	e.g. • WServer2018 or 192 168 0.2		
Denylists and Allowlists	Port:	e.g.: 389		Base Search Path:	e.g.: OU=Deployed,DC=cososys,DC=com		
O Enforced Encryption	Username:	Username		Password:	Password		
Offline Temporary Password							
Reports and Analysis	Create	Test					
Alerts	Synchronizations				¥		
Directory Services	Filters 🗸						
Microsoft Active Directory Azure Active Directory	Show 10 v entries			Ex	cel PDF CSV Show/Hide Columns Reload		
			1	Court Both			
System Maintenance		Connection Type	No data available in table		cast sync 🔤 Actions		
System Configuration	Showing 0 to 0 of 0 entries				Previous Next		
System Parameters							
Support	Delete				Back		

# 13.1. Microsoft Active Directory

You can create and manage connections from the Directory Services, Microsoft Active Directory section. The required information includes the Connection Type, Server, Port, Username, and Password.

New Connection				*
Name:	Synchronization Name	Description:	Synchronization Description	
Connection Type:	Standard 👻	Server:	e.g.: WServer2018 or 192.168.0.2	
Port:	e.g.: 389	Base Search Path:	e.g.: OU=Deployed,DC=cososys,DC=com	0
Username:	Username	Password:	Password	
Create Test				

**Note:** When having to import a very large number of entities, we recommend using the Base Search Path to get only the relevant information displayed. Due to browser limitations, importing the whole AD structure may impede the display of the import tree if it contains a very large number of entities.

To ensure the information is correct, click Test to test the new connection.

Once a new connection has been created, it is available in the synchronization list and can be further edited, to include the required entities.

For the defined connections, several synchronization options are available. From this section, the connection credentials and synchronization interval can also be changed.

Dashboard		« Directory Service	E Directory Services - Edit Synchronization - Test					
Device Control		Connection Details &	nnection Details & Synchronization Options					
Content Aware Pr	rotection	Details						
eDiscovery		Name:	Test	D	escription:	Synchronization Description		
Denylists and Alk	owlists	Connection Type:	Standard	) si	erver:	an and a second		
Enforced Encrypt	ion	Port:	389	B	ase Search Path:	a	0	
Offline Temporar	y Password	Username:		) o	urrent Password:	Current Password		
Reports and Anal	ysis	New Password:	New Password	a	onfirm Password:	Confirm Password		
Alerts		Synchronization Interval:	6 hours ~					
Directory Service		Advanced Groups Filter						
Synchronizations		Group Filter:	OFF					
E Appliance		Savo	Tort					
System Maintena	nce	Save	iest					
System Configura	ation	Directory Browser					^	
5ystem Paramete	rs				Entity Dataile			
0 Support		Search			Name:			
		<ul> <li>Image: Image: Ima</li></ul>			Туре:			
		AD SyncTest			Path:			
		AdminEPP     ADSync_Filters						
		Image: Builting and Builting			Developing			
		Description of the second s	agementServices		Description:			

The Advanced Groups Filter can be used to import and synchronize only specific groups, ignoring all other entities.

From the Directory Browser section, you can select the entities that need to be synced.

#### Note: You can view only Organizational units (OU) and Groups in the Directory Browser.

Directory Browser		^
Directory Browser	Entity Details Name: Type: Path: Description:	LostMadFound  Container  Cit-LostMadFound,DCcom  Default container for orphaned objects

Once the entities have been selected, they can be saved to sync.

Synchronizations		•
Filters V		
Select all entries		
Show 10 v entries		Excel PDF CSV Show/Hide Columns Reload
□ Name 🚽 Description 🔶 Connection Type 🌲 Server	eigeq Port $eigeq$ Base Search Path $eigeq$ Username	eigeq Last Sync $eigeq$ Progress $eigeq$ Actions
	No data available in table	
Showing 0 to 0 of 0 entries		Previous Next
Delete		Back

### 13.2. Azure Active Directory

You can create and manage connections from the Directory Services, Azure Active Directory. From this section, Groups from the Azure Active Directory will have their users synchronized with the Endpoint Protector Server. Group membership will be retrieved recursively by the API platform itself.

#### **Example**

- Group 1 User 1, User 2, User 3;
- Group 2 Group 1, User 4;
- Group 3 Group 2, User 5;

If Group 3 is selected for the synchronization operation, only Group 3 will be imported and created in the Endpoint Protector Server. User 5 will also be imported and will be added as a member of Group 3. Group 2 and all subsequent groups will be parsed and only the Users will be retrieved and the actual groups will not be added to the server.

After the synchronization is done, it will look like that on the Endpoint Protector server:

• Group 3 - User 5, User 4, User 3, User 2, User 1;

#### 13.2.1. Configure Azure Active Directory

#### 13.2.1.1. Create the Application on Azure Active Directory

- 1. Log in to Azure Portal.
- 2. Go to Azure Active Directory.
- 3. Click **App Registrations** from the **Manage** section on the **Active Directory** menu on the left side, then on **New Registration**.

Aure Active Directory	App registrations 🛷 ···	×
Overview	🐇 🕂 New registration 🌐 Endpoints 🧷 Troubleshooting 🖒 Refresh 🛓 Download 🐻 Preview features   🛇 Got feedback?	
<ul> <li>Preview features</li> <li>Diagnose and solve problems</li> </ul>	Try out the new App registrations search preview! Click to enable the preview. →	×
Manage	1 Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will no	×
👗 Users 🏞 Groups	юще ролов наше франсь Арриканого ил пеец ю се ордналев и мислоот Аллениканоп цонау (изъкц) ало мислоот Стари. Цент поле	
External Identities Roles and administrators	All applications Owned applications Deleted applications (Preview)	
Administrative units		
<ul> <li>Enterprise applications</li> <li>Devices</li> </ul>	This account isn't listed as an owner of any applications in this directory. View all applications in the directory	
App registrations     Identity Governance		
Application proxy		
<ul> <li>Licenses</li> <li>Azure AD Connect</li> </ul>		
<ul> <li>Custom domain names</li> <li>Mobility (MDM and MAM)</li> </ul>		
Password reset		
Company branding		

- 4. On the **Registration** page enter your **Name**
- 5. On the Supported account type select **Default Directory**

#### Important: Do not fill in the Redirect URI field!

6. Click **Register**.

Home > Default Directory >	
Register an application	$\times$
A Manual Annual Annu	
* Name	
The user-facing display name for this application (this can be changed later).	
Supported account types	
Mo can use this policition or arcset this API2	
mo can use un seguration o access una viri :	
Accounts in any organizational directory (w) Yaccount of account and personal Microsoft accounts (e.g. Skyte, Xbox)	
O Personal Microsoft accounts only	
Help me choose	
Redirect URI (optional)	
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be	
changed later, but a value is required for most authentication scenarios.	
Web V e.g. https://example.com/auth	
Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from Enterprise applications.	
By proceeding, you agree to the Microsoft Platform Policies C <sup>a</sup>	
Register	

- 7. On the **Essentials** section save the following information:
  - Application (client) ID will be needed for adding it in the Application (client) ID field on the Endpoint Protector Server.
  - Directory (tenant) ID will be needed for adding it in the Tenant ID field on the Endpoint Protector Server.

Home > Default Directory > Test Application *	**	×
✓ Search (Cmd+/) «	Delete     Deletee     Deleteee     Deleteeeeeeeeeeeeeeeeeeeeeeeeee	
Overview	Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →	
i Quickstart		
🚀 Integration assistant	↑ Essentials	
Manage	Display name : Test Application Client credentials : Add a certificate or secret	
Branding	Application (client) ID     : be1a7afc-c32c-def4-b861-678448/3ec19     Redirect URIs     : Add a Redirect URIs	
Authentication	Object ID : 4861ffb5-fdf3-4ab2-ba34-3a6906c2a901 Application ID URI : Add an Application ID URI	
Certificates & secrets	Directory (tenant) ID : 1def8742-8c49-497a-a304-1019540da191 Managed application in L : Test Application	
Token configuration	Supported account types : My organization only	
- API permissions	Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? Learn more	
🗠 Expose an API		
🔣 App roles	Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Lubray (MAAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will any observed transmission load any and transmission load any and transmission. Unbray (MAAL) and Alicosed Traph. Learn more	
🍰 Owners		
and administrators   Preview	Get Started Documentation	
Manifest		
Support + Troubleshooting	Build your application with the Microsoft identity platform	
Troubleshooting	The Microsoft identity platform is an authentication service, open-source libraries, and application management tools. You can create modern,	
New support request	standards-based authentication solutions, access and protect APIs, and add sign-in for your users and customers. Learn more C <sup>a</sup>	

#### 13.2.1.2. Create a secret ID for the Application

The secret ID will be used as an authentication method to gain access to the application via Graph API.

1. Click **Certificates & Secrets** on the side menu from the **Manage** section.

O Search (Condi O	🛱 Delete 🔴 Endesint	- Resident forstures			
Overview					
Quickstart	Got a second? We would be a second? We would be a second?	id love your feedback on Microsoft identity platform (previously Azure AL	) for developer). →		
🚀 Integration assistant	↑ Essentials				
Manage	Display name	: Test Application	Client credentials	: Add a certificate or secret	
Branding	Application (client) ID	: be1a7afc-c92c-4ef4-b861-678448f3ec19	Redirect URIs	: Add a Redirect URI	
	Object ID	: 4861ffb5-fdf3-4ab2-ba34-3a6906c2a901	Application ID URI	: Add an Application ID URI	
Certificates & secrets	Directory (tenant) ID	: 1def8742-8c49-497a-a304-1019540da191	Managed application in I	: Test Application	
Token configuration	Supported account type	s : My organization only			
API permissions	() Welcome to the ne	w and improved App registrations. Looking to learn how it's changed from	m App registrations (Legacy)? Learn more		×
<ul> <li>Expose an API</li> </ul>					
K App roles	<ul> <li>Starting June 30th, no longer provide</li> </ul>	2020 we will no longer add any new features to Azure Active Directory Au feature updates. Applications will need to be upgraded to Microsoft Author	uthentication Library (ADAL) and Azure AD Graph. V entication Library (MSAL) and Microsoft Graph. Lea	We will continue to provide technical support and security updates arn more	but we will ×
A Owners					
8 Roles and administrators   Preview	Get Started Docum	lentation			
11 Manifest					
Support + Troubleshooting		Build your application	n with the Microsoft ide	entity platform	
P Troubleshooting		The Microsoft identity platform is an authentication se	rvice, open-source libraries, and application ma	anagement tools. You can create modern.	
New support request		standards-based authentication solutions, acces	s and protect APIs, and add sign-in for your us	ers and customers. Learn more	

2. Click New client secret on the Certificates & secrets page.

Home > Default Directory > Test Appli	ertificates & secrets 🛷 …					×
✓ Search (Cmd+/) «	♡ Got feedback?					
Overview	Credentials enable confidential applications to i	dentify themselves to 1	the authentication service	e when receiving tokens	at a web addressable location (using an HTTPS	
🍊 Quickstart	scheme). For a higher level of assurance, we rec	ommend using a certif	ficate (instead of a client	secret) as a credential.		
💉 Integration assistant	Certificates					
Manage	Certificates can be used as secrets to prove the	application's identity v	vhen requesting a token	. Also can be referred to	as public keys.	
Branding						
Authentication	↑ Upload certificate					
📍 Certificates & secrets	Thumbprint		Start date	Expires	Certificate ID	
Token configuration	No certificates have been added for this applica	tion.				
API permissions						
🗠 Expose an API						
🛃 App roles	Client secrets					
A Owners	A secret string that the application uses to prov	e its identity when req	uesting a token. Also ca	n be referred to as applic	ation password.	
8 Roles and administrators   Preview						
Manifest	+ New client secret					
Support + Troubleshooting	Description	Expires	Value		Secret ID	
P Troubleshooting	No client secrets have been created for this app	lication.				
New support request						

3. Enter a **Description** for the secret ID.

Home > Default Directory > Test Applie	cation ertificates & secrets 🛷			Add a client secret		×
				Description	Enter a description for this client secret	
Search (Cmd+/) «	🛇 Got feedback?			Expires	Recommended: 6 months	$\overline{}$
Overview	Credentials enable confidential applications to identify	themselves to the authentication sen	vice when receiving tokens at a web			
🖴 Quickstart	scheme). For a higher level of assurance, we recommen	d using a certificate (instead of a clie	nt secret) as a credential.			
🚀 Integration assistant	Certificates					
Manage	Certificates can be used as secrets to prove the applica	tion's identity when requesting a toke	en. Also can be referred to as public			
Branding	-					
Authentication	↑ Upload certificate					
📍 Certificates & secrets	Thumbprint	Start date	Expires Ce			
Token configuration	No certificates have been added for this application.					
-> API permissions						
Expose an API						
App roles	Client secrets					
A Owners	A secret string that the application uses to prove its ide	ntity when requesting a token. Also	an be referred to as application pas			
Roles and administrators   Preview						
100 Manifest	New client secret					
Support + Troubleshooting	Description Exp	pires Value	Sec			
Troubleshooting	No client secrets have been created for this application					
New support request						
				Add Cancel		

4. Click Add and Add a client secret section.

Home > Default Directory > Test App Test Application   (	lication Certificates & secrets ⇒ …					Add a client secret		×
	Cat facilitada					Description	Client Secret Description	
Search (Chid+/) «	V GOL REGDACK?					Expires	Recommended: 6 months	~
Noverview	Credentials enable confidential applications to ic scheme). For a higher level of assurance, we reco	lentify themselves to the aut mmend using a certificate (i	thentication service v instead of a client se	when receiving tokens at a cret) as a credential.	a web			
Quickstart		,						
🚀 Integration assistant	Certificates							
Manage	Certificates can be used as secrets to prove the a	unnlication's identity when re	acuesting a token A	so can be referred to as n	oublic			
Branding	certificates can be used as seeres to prove the	ppreduction of identity internet	equesting a token. P	so can be referred to as p	public			
Authentication	→ Upload certificate							
Certificates & secrets	Thumbprint	Sta	irt date	Expires	Ce			
Token configuration	No certificates have been added for this applicat	ion.						
<ul> <li>API permissions</li> </ul>								
Expose an API								
App roles	Client secrets							
A Owners	A secret string that the application uses to prove	its identity when requesting	g a token. Also can b	e referred to as applicatio	on pas			
8 Roles and administrators   Preview								
III Manifest	+ New client secret							
Support + Troubleshooting	Description	Expires Va	alue		Secr			
Troubleshooting	No client secrets have been created for this appl	ication.						
New support request								
						Add		
					_	Calicer		

5. Take note of the Secret ID value and make sure to copy it to the clipboard and also to store it safely because it will be needed further on.

**Note**: Notice that when navigating back, the secret ID will be hidden.

Home > Default Directory > Test Appli	ication Certificates & secrets ⇒						×
✓ Search (Cmd+/) «	Sot feedback?						
Overview	Credentials enable confidential application	ins to identify themselves to	the authentication service	when receiving tokens at	a web addressable location (using an HTTPS	5	
📣 Quickstart	scheme). For a higher level of assurance,	we recommend using a cert	ificate (instead of a client se	ecret) as a credential.			
🚀 Integration assistant	Certificates						
Manage	Certificates can be used as secrets to pro	ve the application's identity	when requesting a token. A	lso can be referred to as	nublic keys		
E Branding	contractor can be used as secrets to pro	te the opplication a fuentity	inter requesting a token. A		pane reja		
Authentication	↑ Upload certificate						
📍 Certificates & secrets	Thumbprint		Start date	Expires	Certificate ID		
Token configuration	No certificates have been added for this	application.					
-> API permissions							
Expose an API							
App roles	Client secrets						
A Owners	A secret string that the application uses t	o prove its identity when rea	questing a token. Also can b	be referred to as applicati	on password.		
& Roles and administrators   Preview	h New West second						
101 Manifest	New client secret						
Support + Troubleshooting	Description	Expires	Value		Secret ID		
Troubleshooting	Client Secret Description	1/22/2022	3yAk-9je7Env.xaV.Gm11	N43V81.hgp6AOI 🗈	644ff38a-b82e-4873-9a6d-e9b43f5dffa0		
New support request							

### 13.2.1.3. Create Users/Groups using Graph API

1. Click **Home** and then **Azure Active Directory**.

Home Test Application	ertificates & secrets 🛛 🖈						
Search (Cmd+/) «	♡ Got feedback?						
Uverview	Credentials enable confidential applications	to identify themselves to	the authentication service w	hen receiving tokens at	a web addressable location (using an HTTI	PS	
4 Quickstart	scheme). For a higher level of assurance, we	recommend using a cert	ificate (instead of a client sec	ret) as a credential.			
🚀 Integration assistant	Certificates						
Manage	Certificates can be used as secrets to prove	the application's identity	when requesting a token. Al	so can be referred to as	public keys.		
Eranding		,	,, <u>,</u>				
Authentication	Upload certificate						
📍 Certificates & secrets	Thumbprint		Start date	Expires	Certificate ID		
Token configuration	No certificates have been added for this ap	plication.					
API permissions							
Expose an API							
K App roles	Client secrets						
A Owners	A secret string that the application uses to p	prove its identity when rea	questing a token. Also can be	e referred to as applicati	ion password.		
🔓 Roles and administrators   Preview							
10 Manifest	New client secret						
Support + Troubleshooting	Description	Expires	Value		Secret ID		
Troubleshooting	Client Secret Description	1/22/2022	ЗуА*****		644ff38a-b82e-4873-9a6d-e9b43f5dffa0	10	
New support request							



2. Click Add from the Default Directory Overview page

Home >							
Default Directory   C     Azure Active Directory	Overview						
«	+ Add $\vee$ 🐼 Manage ten	ants 🛃 What's new 🛛 🗔 Pre	view features	🔗 Got feedback? 🗸			
0 Overview	User						
Preview features	Group	Tutorials					
X Diagnose and solve problems	Group						
Manage	Enterprise application						
💄 Users	App registration						
A Groups	Name	Default Directory		Users	49,471		
External Identities	Tenant ID	1def8742-8c49-497a-a304-1019	540da191 🗋	Groups	122		
& Roles and administrators	Drimano domain	testamurega en de cinterataste en	missosoft som	Applications	45		
Administrative units	Phinary domain	testazuregaenopointprotecto.on	microsoficcom	Applications			
Enterprise applications	License	Azure AD Free		Devices	0		
Devices	My feed						
III, App registrations							
Identity Governance	Iulia Stoica			1.0, 1.1 and 3DES deprecation		$\mathbf{P}$	Secure Score for Identity
Application proxy	928bdadf-b139-467e	-8029-c513dced3e96	Upc Azu	coming TLS 1.0, 1.1 and 3DES depre- ire AD. Please enable support for TL	cation for S 1.2 on	-	3.85%
Licenses	More info	and 5 outer roles	clier	nts(applications/platform) to avoid a	any service		Secure score updates can take up to 48 hours.
Azure AD Connect							
🐖 Custom domain names	A Anura AD Connect						
Mobility (MDM and MAM)	Enabled						
Password reset	Last sync was more t	han 1 day ago					
Company branding							

 $\times$ 

 $\times$ 

3. Click Add User.

	≪ + Add ∨ 🐼 Manage	tenants [ What's new 🛛 🗔 Prev	iew features	🔗 Got feedback? 🗸			
0verview	User						
Preview features	O.A.	Tutorials					
Diagnose and solve problems	Group						
lanage	Enterprise application						
Users	App registration						
Groups	Name	Default Directory		Users	49,471		
External Identities	Tenant ID	1def8742-8c49-497a-a304-10195	40da191 🗈	Groups	122		
Roles and administrators	Brimanu domain	tectaru vega en de siste retecto en e	aicrosoft com	Applications	45		
Administrative units	Primary domain	testazuregaenopointprotecto.onn	licrosoft.com	Applications	45		
Enterprise applications	License	Azure AD Free		Devices	0		
Devices	My feed						
App registrations							
Identity Governance	Is Iulia Stoica		<u>м</u> ш	5 1.0, 1.1 and 3DES depre	ecation	Secure Score for l	dentity
Application proxy	928bdadf-b139-4	67e-8029-c513dced3e96	Up Azr	coming TLS 1.0, 1.1 and 3 ure AD. Please enable sup	DES deprecation for port for TLS 1.2 on	- 3.85%	
Licenses	More info	tor and 5 other roles	clie	ents(applications/platform	) to avoid any service	Secure score updat	tes can take up to 48 hours.
Azure AD Connect							
Custom domain names	A 1						
Mobility (MDM and MAM)	Enabled	ct					
Password reset	Last sync was mo	re than 1 day ago					
Company branding							

- Select Create User
- Enter the **Username** and select the **Domain**
- Enter the Name
- Either click Auto-generate password or create one on your own
- Add the **Department**
- Click Create

• Create user         Create a new user in your organization,         alce@Fetsaureqaendpointprotect.org         Iwant to create users in bulk         Iwant to create users in bulk         Help me decide         Here         User mame *          User mame *          User *
Help me decide  Identity User name *  User v  Estaturegaendpointprot.  The domain name Lineed ion't chown here
Identity User name * O User > @ testauregaendpointprot. > D The domain name I need ion't chean here
User arme • O User · • Estaturequendpointprot. · · · · · · · · · · · · · · · · · · ·
The working there i new an Carolin new
Name * 🛈 Test 🗸
First name User 🗸
Last name
Password
Grante

×

- 4. Repeat Steps 1 and 2, then click Group.
- Select group type security
- Enter a name for the group
- Click No members selected to add membership
- Search for the newly created user and click Select

Home > Default Directory >	
New Group	
iten dioup	
Group type * ①	
Security	~
Group name * 🕕	
Group	~
Group description ①	
description	
Membership type ①	
Assigned	$\sim$
Owners	
No owners selected	
Members	

Create

### 13.2.1.4. Add Permissions to the Application

Permission to be added to our application:

- Directory.Read.All
- Group.Read.All
- User.Read.All

Make sure the created application is open then:

#### 1. Click API Permissions.

Home > Default Directory > Test Application &		×
. Search (Cmd+/) ≪	📋 Delete 🌐 Endpoints 🖼 Preview features	
Overview	1 Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). $ ightarrow$	
duickstart		
💉 Integration assistant	↑ Essentials	
Manage	Display name : Test Application Client crede	entials : Add a certificate or secret
Branding	Application (client) ID : f8935dbb-e249-4bdf-98a0-2ab2419126e1 Redirect Ui	RIs : Add a Redirect URI
Authentication	Object ID : 851a8df0-907d-4f93-9d90-950201b7c214 Application	ID URI : Add an Application ID URI
🔶 Cartificatas & sacrate	Directory (tenant) ID : 1def8742-8c49-497a-a304-1019540da191 Managed a	pplication in I : Test Application
	Supported account types : My organization only	
API permissions	Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and A no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Authentication Library (MSA	zure AD Graph. We will continue to provide technical support and security updates but we will $\stackrel{\times}{}\times$ osoft Graph. Learn more
App roles	Get Started Documentation	
A Owners		
Roles and administrators   Preview	Build your application with the Micro	psoft identity platform
1 Manifest		
Support + Troubleshooting	The Microsoft identity platform is an authentication service, open-source libraries, and standards-based authentication solutions, access and protect APIs, and add sig	application management tools. You can create modern, n-in for your users and customers. Learn more 🖓
<i>Troubleshooting</i>		
New support request		÷

#### 2. Click Add a Permission

Home > Default Directory > Test Appli 	cation PI permissions 🖈 …	×
,O Search (Cmd+/) «	🖒 Refresh 🛛 🛇 Got feedback?	
Overview		
<ul><li>Quickstart</li><li>Integration assistant</li></ul>	The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. Learn more	×
Manage	Configured permissions	
Eranding	Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include	
Authentication	all the permissions the application needs. Learn more about permissions and consent	
📍 Certificates & secrets	+ Add a permission 🗸 Grant admin consent for Default Directory	
Token configuration	API / Permissions name Type Description Admin consent requ Status	
API permissions	No permissions added	
Expose an API		
App roles	To view and manage permissions and user consent, try Enterprise applications.	
A Owners		
Roles and administrators   Preview		
10 Manifest		
Support + Troubleshooting		
Troubleshooting		
New support request		

3. Click Microsoft Graph.



#### 4. Click Application Permissions.

<ul> <li>Search (Cmd+/)</li> <li>Search (Cmd+/)</li></ul>	Home > Default Directory > Test Application		Request API permissions	×
	- Test Application   A	PI permissions 🖉 ····	< All APIs	
<ul> <li>i Overview</li> <li>Quickstart</li> <li>Quickstart</li> <li>I the "Admin consent required" column shows the default value for an organization where this app will be used. Learn more</li> <li>Manage</li> <li>Configured permissions</li> <li>Application sa authorized to call APIs when they are granted permissions by a all the permissions the application needs. Learn more about permissions and core</li> <li>Authentication</li> <li>Certificates &amp; secrets</li> <li>Add a permission added</li> <li>Expose an API</li> <li>Apple permissions added</li> <li>Expose an API</li> <li>Applorations and user consent, try Enterprise applications.</li> <li>Anores</li> <li>A</li></ul>	✓ Search (Cmd+/) «	💍 Refresh 🛛 🛇 Got feedback?	Microsoft Graph	
<ul> <li>4 Quickstart</li> <li> <ul> <li></li></ul></li></ul>	Overview		What type of permissions does your application require?	
✓     Integration assistant     Organizations where this app will be used. Learn more     Desgrate permissions     Desgrate permissions     Manage     Desgrate permissions     Manage     Desgrate permissions     Desgrate permissions     Manage     Desgrate permissions     Desgrate permissions     Manage     Desgrate permissions     Desgrate permission permissions     Desgrat perm	n Quickstart		Delegated exercisions	Austination
Mange       Configured permissions         ■ Branding       Applications are authorized to call APIs when they are granted permissions by us all the permissions the application needs. Learn more about permissions and cor         Image:       Authentication         Image:       Authentication         Image:       Authentication         Image:       Authentication         Image:       Applications are authorized to call APIs when they are granted permissions and cor         Image:       API / Permissions name       Type         Image:       API / Permissions added         Image:       No permissions and user consent, try Enterprise applications.         Image:       Image:         Image:       Image: <t< td=""><td>🚀 Integration assistant</td><td>organizations where this app will be used. Learn more</td><td>Your application needs to access the API as the signed-in user.</td><td>Your application runs as a background service or daemon without a signed-in user.</td></t<>	🚀 Integration assistant	organizations where this app will be used. Learn more	Your application needs to access the API as the signed-in user.	Your application runs as a background service or daemon without a signed-in user.
Branding Applications are authorized to call APIs when they are granted permissions by us all the permissions the application needs. Learn more about permissions and cor   Authentication + Add a permission the application needs. Learn more about permissions and cor   Certificates & secrets + Add a permission consent for Default Directory   II Token configuration API / Permissions and with consent for Default Directory   No permissions added No permissions added   App roles To view and manage permissions and user consent, try Enterprise applications.   Owners Support + Troubleshooting   Manifest Support + Troubleshooting	Manage	Configured permissions		
Authentication all the permissions the application needs. Learn more about permissions and cor   Certificates & secrets + Add a permission consent for Default Directory   It Token configuration API / Permissions and with consent for Default Directory   No permissions added No permissions added   App roles To view and manage permissions and user consent, try Enterprise applications.   No wrens Subject + Troubleshooting   Image: Subject toroubleshooting Subject + Troubleshooting	Branding	Applications are authorized to call APIs when they are granted permissions by us		
Certificates & secrets + Add a permission    II Token configuration   API / Permissions and Type   Description   No permissions added   Expose an API   II App roles   No owens   No loss and administrators   Preview   III   Marifest   Support + Troubleshooting   IV   Troubleshooting	Authentication	all the permissions the application needs. Learn more about permissions and cor		
If Token configuration API / Permissions anme Type Description   API permissions No permissions added No permissions added   Apr oles To view and manage permissions and user consent, try Enterprise applications.   Owners No owners   Anifest Support + Troubleshooting   Troubleshooting Support + Troubleshooting	📍 Certificates & secrets	+ Add a permission 🗸 Grant admin consent for Default Directory		
API permissions     No permissions added       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent, try Enterprise applications.       Image: Approles     To view and manage permissions and user consent.       Image: Approles     To view and the view and	Token configuration	API / Permissions name Type Description		
	<ul> <li>API permissions</li> </ul>	No permissions added		
App roles     To view and manage permissions and user consent, try Enterprise applications.       App roles     To view and manage permissions and user consent, try Enterprise applications.       App roles     Approles       Image: Ima	Expose an API			
	App roles	To view and manage permissions and user consent, try Enterprise applications,		
Roles and administrators   Preview     Manifest  Support + Troubleshooting      Troubleshooting       Troubleshooting	A Owners			
Manifest Support + Troubleshooting      Troubleshooting	& Roles and administrators   Preview			
Support + Troubleshooting  Troubleshooting  Showson and an and a second and a secon	🔟 Manifest			
Troubleshooting	Support + Troubleshooting			
Annu contract request	Troubleshooting			
a rew support request	New support request			
Add permissions Discard			Add permissions Discard	

5. Search for the permissions mentioned above and check each of the permissions. (Directory.Read.All, Group.Read.All, User.Read.All)

Home > Default Directory > Test Appli Test Application   Al Search (Cmd+/) « Coverview	ation PI permissions	Request API permissions CAILAPIs CAILAP	×
<ul> <li>Quickstart</li> <li>Integration assistant</li> </ul>	The "Admin consent required" column shows the default value for an organizati organizations where this app will be used. Learn more	Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
Manage	Configured permissions		
Branding	Applications are authorized to call APIs when they are granted permissions by us	Select permissions	expand all
Authentication	all the permissions the application needs. Learn more about permissions and cor		×
📍 Certificates & secrets	+ Add a permission 🗸 Grant admin consent for Default Directory	Permission	Admin consent required
Token configuration	API / Permissions name Type Description	V Directory (1)	
<ul> <li>API permissions</li> </ul>	No permissions added		
Expose an API		Directory.Read.All () Read directory data	Yes
App roles	To view and manage permissions and user consent, try Enterprise applications.	Directory.Read.All ①	
찬 Owners		Read and write directory data	Yes
& Roles and administrators   Preview		> RoleManagement	
10 Manifest		,	
Support + Troubleshooting			
P Troubleshooting			
New support request			
		Add permissions Discard	

#### 6. Click Add Permissions.

Home > Default Directory > Test Application 		Request API permissions	×
Search (Cmd+/)      «      Overview     Quickstart     // Integration assistant	C Refresh C Got feedback? G The "Admin consent required" column shows the default value for an organization share this app will be used. Learn more	Microsoft Graph Microsoft Graph https://graph.microsoft.com/ Docs 🔊 What type of permissions does your application require? Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a
Manage Branding Authentication	Configured permissions Applications are authorized to call APIs when they are granted permissions by us all the permissions the application needs. Learn more about permissions and cor	Select permissions	signed-in user. expand all
Certificates & secrets     Token configuration	+ Add a permission $\checkmark$ Grant admin consent for Default Directory API / Permissions name Type Description	Permission V Directory (1)	Admin consent required
API permissions     Expose an API     App roles	No permissions added To view and manage permissions and user consent, try Enterprise applications.	Directory,Read All      Read directory data     Directory,Read All	Yes
<ul> <li>Owners</li> <li>Roles and administrators   Preview</li> <li>Manifest</li> </ul>		Read and write directory data     RoleManagement	Yes
Support + Troubleshooting  Troubleshooting  New support request			
		Add permissions Discard	

7. Click Grant admin consent for Default Directory from the API Permission page.

Home > Default Directory > Test Appli						
- Test Application   A	PI permissions ×					^
Search (Cmd+/) «	🖒 Refresh 🛛 🗢 Got feedba	ack?				
R Overview	A You are editing permission(s)	) to your applicatio	n, users will have to consent even if they've alrea	ady done so previously.		
📣 Quickstart						
🚀 Integration assistant						
Manage	The "Admin consent required organizations where this app	d" column shows th will be used. Lear	e default value for an organization. However, us n more	er consent can be customized per permiss	sion, user, or app. This column may not reflect the value in your organization, or in	×
🧮 Branding						
Authentication	Configured permissions					
Ŷ Certificates & secrets	Applications are authorized to cal all the permissions the application	APIs when they a needs. Learn mo	are granted permissions by users/admins as are about permissions and consent	part of the consent process. The list of	configured permissions should include	
Token configuration						
<ul> <li>API permissions</li> </ul>	+ Add a permission	nt admin consent	for Default Directory			
Expose an API	API / Permissions name	Туре	Description	Admin consent req	qu Status	
App roles	Microsoft Graph (3)					
2 Owners	Directory.Read.All	Application	Read and write directory data	Yes	▲ Not granted for Default ***	
🔱 Roles and administrators   Preview	Group.Read.All	Application	Read and write all groups	Yes	▲ Not granted for Default ***	
Manifest	User.Read.All	Application	Read and write all users' full profiles	Yes	▲ Not granted for Default ***	
Support + Troubleshooting						
Troubleshooting	To view and manage permissions	and user consent	, try Enterprise applications.			
New support request						

#### 13.2.1.5. Add Graph Application to Endpoint Protector Server

#### 1. Go to Endpoint Protector Server, Directory Services, Azure Active Directory.

2. Click **Add** to add an API Consumer - One API Consumer can be used for multiple synchronization jobs.

🕥 Dashboard	« El Directory Services - Azure Active Directory				
Device Control	API Consumers				^
Content Aware Protection					
eDiscovery	Show 10 v entries			B	cel PDF CSV Show/Hide Columns Reload
Denylists and Allowlists	Name	Description	🔶 Tenant ID	0 Client ID	Actions
Enforced Encryption			No data available in	1 table	
0ffline Temporary Password	Showing 0 to 0 of 0 entries				Previous Next
Reports and Analysis	Add				Back
Alerts	Name:	Name			
Directory Services	Description:	Description			
Microsoft Active Directory Azure Active Directory	Tenant ID:	Tenant ID			
	Application (Client) ID:	Application (Client) ID			
System Maintenance	Client Secret Value:	Client Secret			
System Configuration		Test	Cancel		
E System Parameters	Synchronization jobs				*
5 Support	Filters V				
	Show 10 V entries			Ð	cel PDF CSV Show/Hide Columns Reload
© 2004 - 2021 CoSoSys Ltd. All rights reserved.					Version 5.4.0.0

- 3. Provide the following details:
  - Name
  - Description
  - Directory (tenant) ID saved earlier on the Tenant ID field
  - Application (client) ID saved earlier on the Application (Client) ID field
  - Secret ID saved earlier in the Client Secret Value field

Dashboard	« Directory Service	es - Azure Active Directory			
Device Control	API Consumers				^
Content Aware Protection					
eDiscovery	Show 10 🗸 entries			Exc	el PDF CSV Show/Hide Columns Reload
Denylists and Allowlists	Name	Description	🔶 Tenant ID	0 Client ID	Actions
Enforced Encryption			No data available in t	table	
Offline Temporary Password	Showing 0 to 0 of 0 entries				Previous Next
Reports and Analysis	Add				Back
🔼 Alerts	Name:	Test	~		
Directory Services	Description:	Description			
Microsoft Active Directory Azure Active Directory	Tenant ID:	1def8742-8c49-497a-a304-1019540d	a191 🗸		
	Application (Client) ID:	be1a7afc-c92c-4ef4-b861-678448f3e	c19 🗸		
System Maintenance	Client Secret Value:	3yAk-9je7Env.xaV.Gm1N43V81.hgp64			
System Configuration		Te	st Cancel		
System Parameters	Synchronization jobs				^
🤘 Support	Filters V				
	Show 10 🗸 entries			Exc	el PDF CSV Show/Hide Columns Reload
© 2004 - 2021 CoSoSys Ltd. All rights reserved.					Version 5.4.0.0

4. Click **Test** and then **Save**.

Dashboard	« Directory Services	- Azure Active Directory			
Device Control	Access token received successfully	Diasea save your channes			U.
Content Aware Protection	Picces construction succession.	Presse some your crisingles.			^
eDiscovery	API Consumers				^
Denylists and Allowlists	Show 10 v entries				Excel PDF CSV Show/Hide Columns Reload
O Enforced Encryption	Name	- Description	Tenant ID	Client ID	Actions
0ffline Temporary Password		· · · · · · · · · · · · · · · · · · ·	No data available	in table	10000
Reports and Analysis	Showing 0 to 0 of 0 entries				Previous Next
🔼 Alerts	Add				Back
Directory Services					
Microsoft Active Directory	Name:	Test	*		
Azure Active Directory	Description:	Description			
	Tenant ID:	1def8742-8c49-497a-a304-1019540da191	~		
🖬 System Maintenance	Application (Client) ID:	be1a7afc-c92c-4ef4-b861-678448f3ec19	~		
System Configuration	Client Secret Value:	3yAk-9je7Env.xaV.Gm1N43V81.hgp6AOI	~		
5ystem Parameters		Save Test	Cancel		
🦲 Support	Synchronization jobs				^
	Filters V				
© 2004 - 2021 CoSoSys Ltd. All rights reserved.	-				Version 5.4.0.0

### 13.2.1.6. Create a Synchronization Job on the Endpoint Protector Server

1. Click Create Sync Job.

Dashboard	« Directory Services - Azure Active Directory
Device Control	API Consumers
Content Aware Protection	
eDiscovery	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload
Denylists and Allowlists	Name v Description (Tenant ID ) Actions
Enforced Encryption	Test 1de/8742-6049-497a-s304-1019540ds191 be1a7afc-592c-464-5861-6784485sec19
Offline Temporary Password	Showing 1 to 1 of 1 entries Previous 1 Next
Reports and Analysis	Add Back
Alerts	Construction labor
Directory Services	Synchronization juos
Microsoft Active Directory	Filters v
	Show         10         v         ethics         Eucel         POF         CSV         Show/Hde Columns         Raload
Appliance	
System Maintenance	Rame Description V API Consumer Synchronization Interval Api Consumer API Consumer
System Configuration	No data available in table
System Parameters	Showing 0 to 0 of 0 entries Previous Next
🮯 Support	Greate Sync Job Delete Back

- 2. Provide Synchronization information:
  - Name
  - Description
  - Select the created API Consumer
  - Select Sync Interval
  - Click Save

« 🗐 Azure Active Directory - Synchronization Job							
Synchronization Option	15					^	
Details							
Name:	Name		Description:	Description			
API Consumer:	API Consumer	v	Synchronization Interval:	15 minutes	~		
Map on-premises users:							
Save					Back		

The "**Map on-premises users**" switch in the Azure Active Directory connector controls how Endpoint Protector (EPP) retrieves user names in hybrid environments with both a local Active Directory and Azure Active Directory (Azure AD). This switch has two states:

- **Unmarked** (feature disabled): EPP uses the "userPrincipalName" Azure AD attribute to retrieve user names. This attribute is the primary source for user identification and account mapping.
- Marked (feature enabled): EPP uses the "onPremisesSamAccountName" Azure AD attribute to retrieve user names, ensuring accurate synchronization between the local Active Directory and Azure AD.

By utilizing this feature, EPP ensures seamless synchronization of user names, preventing duplicate usernames. Enable or disable the "Map on-premises users" feature based on your specific hybrid environment setup and requirements.



# 14.1.Server Information

From this section you can view general information about the Server, the System Fail/Over status, information on Disk Space usage and Database, and the Server Uptime.

0	Dashboard	Carl Endpoint Protector Appliance - System Information			
	Device Control	System Fail/Over Status			
P	Content Aware Protection	System Fail/Over Status:	N/A		
	eDiscovery	Disk Space		Info Disk Space	
	Denylists and Allowlists	Disk Space System:	3.9G - 9% from 50G	Please consider taking one of the following actions in System Maintenance tab if you have used up 95% of the storage	
		Disk Space EPP Server:	2.4G - 1% from 258G	<ol> <li>Back-up &amp; Save old or unneeded logs by going to File Maintenance and selecting the suitable option.</li> </ol>	
ౖ	Enforced Encryption	Logs on Disk:	4.0K stored in /var/eppfiles/logs	<ol> <li>Remove old or unneeded logs by going to File Maintenance and selecting the suitable option.</li> </ol>	
	Offline Temporary Password	ne Temporary Password Shadows on Disk: \$2M stored in /var/eppfles/thadows Start Analysis Attendatively on to System Configuration > Syste		Atternativery, go to system computation > system rouices and: 3. Disable or Change the granularity of your policies. Activating File Tracing / Shadowing under Global Settings will greatly affect your Server performance. It is recommended to activate File Tracing / File Shadowing for specific Computers.	
2	Reports and Analysis			4. Enable the Automatic Log Cleanup feature and Set the HDD Disk Space percentage at which the process will begin	
	41-4-	Database Disk Space occupied			
	Alerts	Database Disk Space occupied: 32H stored in /wr/lb/mysql/eppdatabase			
0	Directory Services	Number of Logs in Database: 289			
	A	Number of Files Traced:	5		
	Appliance	Number of Files Shadowed:	Number of Files Shadowed: 2		
	Server Information				
Server Maintenance		System			
	SIEM Integration	Uptime: 07:50:02 up 1 day, 16:18, 0 users, load average: 1.31, 0.86, 0.82 - 1, 5 and 15 minutes ago			
System Maintenance		Linux Distribution:	Distribution: Ubuntu 18.04.3 LTS I		
		System Information Update: 2021-Feb-26 07:50:02			
ø	System Configuration				
E	System Parameters				
	Support				

# 14.2. Server Maintenance

In this section, you can set up a preferential time zone and NTP synchronization server, configure the IP and DNS, register the client certificate, set up a self-signing certificate, perform routine operations and manage the SSH access.

Dashboard	« Endpoint Protector Appliance - Server Maintenance			
Device Control	Time Zone			
Content Aware Protection	Please select your timezone	Europe 🗸 Berlin 🗸		
eDiscovery	NTP Server	pool.ntp.org Example : pool.ntp.org		
· ·	How often to synchronize	Once a week 🗸		
Denylists and Allowlists	Current server time	2022-03-31 09:52:44		
Enforced Encryption	Automatic NTP Synchronization	Disabled 🕘 Enabled 🖲		
	Save Synchronize Time	Refresh Current Time		
Offline Temporary Password	Offline Temporary Password			
Departs and Analysis	IP Configuration			
	IP Address:	192.168.15.21		
Alerts	Gateway:	192.168.14.1		
	Netmask:	255.255.254.0		
Directory Services	*Nete: Modifying Network Configuration could stop communication between EPP Clients and Server.			
🚍 Appliance	DKS Configuration			
Server Information	Date 1.	102168.0.1		
Server Maintenance	DNS 1: DNS 2:	154190011		
SIEM Integration	*Note: At least one DNS should be configured. Endpoint Protecto	Appliance requires a functional DNS for sending e-mail alerts and for live update mechanism.		
🖬 System Maintenance				
	Save			
System Configuration	Aliguation Client Resistration Certificate			
System Parameters	Enable custom certificate:			
Cupport	On			
Subton	Upload Certificate	Choose File No file chosen		
	Test certificate:			

#### 14.2.1. Time Zone

In this section you can set a preferential time zone and/or sync the appliance to an NTP source.

- Time zone select from the drop-down lists the zone and location
- NTP Server type the server or go with the default entry
- How often to synchronize select from the drop-down a time interval when to synchronize of go with the default selection

Note: The appliances are prefigured to sync once a week with pool.ntp.org.

- Current server time the field displays the current server time
- Automatic NTP Synchronization opt in or out to trigger the NTP synchronization automatically
- Click Save to keep all modifications without triggering the synchronization process.
- Click Synchronize Time to trigger the synchronization, which will occur in the next 5 minutes. The Alerts and Logs will be reported after the 5 minutes in a format of your choice.
- Click **Refresh Current Time** to update the **Current server time** field.

Time Zone				
Please select your timezone	Europe 🗸 Berlin 🗸			
NTP Server	pool.ntp.org Example : pool.ntp.org			
How often to synchronize	Once a week 🗸			
Current server time	2022-03-31 09:52:44			
Automatic NTP Synchronization	Disabled 🔿 Enabled 🔘			
Save Synchronize Time	Refresh Current Time			
### 14.2.2. IP Configuration

In this section you can change the network settings for the appliance to communicate correctly in your network.

**Important:** Once you change the IP address, close and open again the Internet browser and then access the Endpoint Protector Administration and Reporting Tool with the new IP address.

IP Configuration						
IP Address:	192.168.15.21					
Gateway:	192.168.14.1					
Netmask:	255.255.254.0					
*Note: Modifying Network Configuration could stop co	ommunication between EPP Clients and Server.					

### 14.2.3. DNS Configuration

In this section you can modify or add a DNS server address and then Save your changes.

DNS Configuration	
DNS 1:	192.168.0.1
DNS 2:	
<b>*Note:</b> At least one DNS should be configured. Endpoint Protector A update mechanism.	ppliance requires a functional DNS for sending e-mail alerts and for live
Save	

### 14.2.4. Client Registration Certificate

From this section, you can register and then verify the Endpoint Protector Client certificate signature. The client registration certificate is an additional security measure enabling certificate-based authentication.

### Important: The Client Registration Certificate feature is not available for Linux!

1. Enable the custom certificate setting and then upload the certificate chain, Root CA and Intermediate;

When the custom certificate is **enabled** then:

- Endpoint Protector Server will validate the client certificate at the registration phase
- Endpoint Protector Client will not validate the server certificate

When the custom certificate is **disabled** then:

- Endpoint Protector Server will not validate the client certificate at the registration phase
- Endpoint Protector Client will not validate the server certificate

- 2. Enable the test certificate setting and then upload a **certificate signed by root CA just for testing the signature** (for example the Endpoint Protector Client certificate);
- 3. Click **Save** and allow 2 minutes for the information to be validated. You will view a successful message confirming the custom certificate was added and the test certificate is valid.

**Important**: The client registration authentication certificate and the Endpoint Protector server certificate must be issued by the same CA.

For this feature to work, there must be cryptographic identities signed by the root CA deployed on the endpoints.

- On **macOS** these identities should be added to System Keychain in the "My Certificates" section.
- On **Windows** they should be placed in the Certificate Manager's Local Computer\Certificates\Personal section.

Client Registration Certificate	
Enable custom certificate:	
On	
Upload Certificate	Choose File No file chosen
Test certificate:	
On	
Upload Test Certificate	Choose File No file chosen
Save	

### 14.2.5. Server Certificate

In this section you can set up a custom certificate.

To do so, copy and paste the content from the **.pem** certificate in the **body** and **key** text boxes and then **Save** your modifications.

Server Certificate	
Paste the certificate body into the following text box.	Paste the certificate key into the following text box.
Save	

### 14.2.6. Server Certificate Validation

From this section, you can configure Server Certificate Validation, which ensures that certificates used for all communication requests on EPP clients are validated. This feature is crucial for maintaining secure communication between various Endpoint Protector (EPP) products.

**Note**: All certificate validation statuses will be reported to the EPP Server and stored for debugging purposes in EPP Client logs.

**Important**: Please use this feature responsibly, as improper certificate usage with certification validation might disrupt EPP Client to EPP Server communication.

**Important:** Starting from the 5.9.0.0 release (for Windows: 6.0.x.x; for MacOS: 2.8.3.x; for Linux: 2.2.0.x) or higher, enabling this option activates EPP Server Certificate Validation for all communication requests on EPP clients. This enhances the security of your EPP environment by ensuring that certificates used for communication are valid and trusted.

### 14.2.7. Appliance Operations

In this section you can perform appliance operations such as Reboot or Shutdown.

Appliance Operations	
Reboot the Hardware Appliance:	Reboot
Shutdown the Hardware Appliance:	Shutdown

### 14.2.8. SSH Server

In this section you can manage user access to the Appliance through the SSH protocol.

Note: We recommended you set this option to Enable before requesting Support access.

SSH Server		
Enable:	۲	
Disable:	0	
Save		

# 14.3.SIEM Integration

SIEM are a third-party security information and event management tools that allow logging and analyzing logs generated by network devices and software. The integration with SIEM technology enables Endpoint Protector to transfer activity events to a SIEM server for analysis and reporting.

In this section, you can add, edit or delete an existing SIEM Server integration. To edit or delete a SIEM Server you need to select an available SIEM server integration.

Dashboard	« Appliance - SIEM In	tegration	
Device Control	SIEM Servers		
Content Aware Protection			
📆 eDiscovery	SIEM	SIEM 1	
Denylists and Allowlists	IP: 192.168.0.1 Port: 24 Protocol: udo	IP: 192.168.0.2 Port: 25 Protocol: trn	
Enforced Encryption	2	riddon ap	
Offline Temporary Password			
Reports and Analysis			
🛆 Alerts	Add New		
Directory Services			
Server Information Server Maintenance <u>SIEM Integration</u>			
System Maintenance			
System Configuration			
E System Parameters			

Important: You can configure a maximum number of 4 SIEM Server integrations.

To create a SIEM Server click **Add New** and provide the following information:

- SIEM Status toggle switch to enable/disable the SIEM server
- **Disable Logging** toggle switch to enable/disable logging

**Note:** If you disable logging, logs will be stored on the Endpoint Protector Server or on the SIEM Server when SIEM is enabled.

- Server Name add a server name
- Server Description add a description
- Server IP or DNS add the IP or DNS
- Server Protocol select the UDP or TCP server protocol

Note: Based on the protocol you select you can enable SIEM Encryption.

- Server Port add a port
- Exclude Headers toggle switch to enable/disable log headers Note: If you disable log headers, you will only export data to SIEM.

• Log Types - select from the available options the logs to send to the SIEM Server

rver Information				
erver Status			Server Logging 🚯	
EM Status:	ON 🔘		Disable Logging:	OFF
erver Settings				
erver Name:	Server Name		Server Protocol:	TCP
erver Description:	Server Descriptio	n	Server Port:	Server Port
erver IP or DNS:	Server IP or DNS	5	Exclude Headers:	ON (1)
			Enable Encryption:	ON O
			Add Certificate:	
			Choose File No file chosen	
Select the Log Types to be sent to the SIE	:M Server.			
<b>—</b> ———————————————————————————————————		Content Aware Protection	eDiscovery	Other SIEM Logs
Device Control				
Device Control Blocked Connected		Content Remediation Request Cancelled by User Content Remediation Session Active	File Reported	AD Synchronization     Admin Actions
Device Control Blocked Connected Device not TD	٦	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threat Blocked	File Reported	AD Synchronization Admin Actions ADS certificate
Device Control     Blocked     Connected     Device not TD     Device Remediation Request Cancelled b	ıy User	Content Remediation Request Cancelled by User     Content Remediation Session Active     Content Threat Blocked     Content Threat Detected	File Reported	AD Synchronization AD Synchronization APINS certificate Client Info Update
Device Control      Blocked      Connected      Device not TD      Device Remediation Request Cancelled b      Device Remediation Session Active	ıy User	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threat Blocked Content Threat Detected	☐ File Reported	AD Synchronization AD Synchronization AD Synchronization APINS certificate Client Info Update Client Info Update
Device Control Connected Device not TO Device Remediation Request Cancelled b Device Remediation Session Active Device Remediation Session Cancelled	y User	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threat Blocked Content Threat Detected	☐ File Reported	AD Synchronization AD Synchronization AD Synchronization APNS certificate Client Info Update Client Inforty Fall Client Uninstal
Device Control  Device Control  Connected  Device Remediation Request Cancelled b  Device Remediation Session Active  Device Remediation Session Cancelled  Device Remediation Session Ended	y User	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threat Blocked Content Threat Detected	☐ File Reported	Ab Synchronization     Admin Actions     Abmic Actions     APIS certificate     Client Info Update     Client Info Update     Client Information     Client Ansare - Loga Amount
Device Control     Device Control     Device not TD     Device Remediation Request Cancelled b     Device Remediation Session Active     Device Remediation Session Cancelled     Device Remediation Session Ended     Device TD	yy User	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threat Blocked Content Threat Detected	☐ File Reported	A Synchronization     Admin Actions     Admin Actions     Arbits certificate     Client Info;ity Fail     Client Info;ity Fail     Client Uninstall     Content Aware - Logs Amount     Delete
Device Control Connected Device not TO Device Remediation Request Cancelled Device Remediation Session Active Device Remediation Session Cancelled Device Remediation Session Ended Device Device Remediation Device Device Remediation Device Remediation Device TD Diabiled	yy User	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threst Blocked Content Threst Detected	☐ File Reported	AD Synchronization     Admin Actions     APNS certificate     Client Integrity Fall     Client Uninstall     Content Aware - Logs Amount     Delete     Device Control - Logs Amount
Device Control Connected Device not TO Device Remediation Request Cancelled b Device Remediation Session Active Device Remediation Session Ended Device Remediation Session Ended Device Remediation Session Ended Device Remediation Session Ended Device TD Disconnected	yy User	Content Remediation Request Cancelled by User Content Remediation Session Active Content Threst Blocked Content Threst Detected	☐ File Reported	A Synchronization     Admin Actions     APIS certificate     Client Info Update     Client Inforth Fall     Content Aware - Logs Amount     Delete     Device Control - Logs Amount     Endpoint Licenses

**Important:** Please be aware that the SIEM integration feature in Endpoint Protector comes with certain limitations. To make use of the latest features of this SIEM integration, your environment must meet specific criteria. It should have been installed from image version 5.6.0.0 or a more recent version, and maintain an active HTTPS connection. Please note that SIEM integration is only accessible in environments that meet these stringent prerequisites.

### 14.3.1. SIEM Encryption

When using the TCP protocol, you have the option to encrypt communication to each SIEM server. In order to do so, enable the **Encryption** setting and then **Upload the root CA** that was used to sign the server certificate for the SIEM server in .pem format.

**Important**: The certificate used on the SIEM server must be signed by the same CA as the one uploaded to the EPP Server. Endpoint Protector will check the following:

- the SIEM certificate is signed by the CA, and the CN or SAN matches the name for the SIEM machine
- the Root CA has the Basic Constraint CA set to true

When validating a certificate, the entire certificate chain must be valid, including the CA certificate; if any certificate of the chain is invalid, the connection will be rejected.

Make sure you update the certificate files when they expire.

**Note**: If you applied the latest patch using the <u>Live Update</u> option, and cannot view the SIEM encryption setting, please contact <u>Customer Support</u>.



### 15.1.File Maintenance

This module allows you to retrieve, organize and clean-up files used by the Endpoint Protector Server.

0	Dashboard	<⊟ File Maintenance
	Device Control	File Maintenance
P	Content Aware Protection	Indexistent Revent dates are word files for the functionality. Use this failable testing where the second sec
-7	eDiscovery	Source Fax
	Denylists and Allowlists	Log Beckup Files
0	Enforced Encryption	
	Offline Temporary Password	
2	Reports and Analysis	
	Alerts	
Ø	Directory Services	
	Appliance	
Yi	System Maintenance	
	File Maintenance Exported Entities System Snapshots Audit Log Backup External Storage System Backup 92 File Shadows Repository	
Ø	System Configuration	
E	System Parameters	
	Support	

You have the following options:

- **Shadow Files**: allows archiving and deleting shadowed files from a selected client computer
- · Log Backup Files: allows archiving and deleting previously backed up log files

To archive a previously selected set of files click **Save as Zip** and to permanently remove a set of files from the Endpoint Protector Server click **Delete**.

# **15.2.Exported Entities**

From this section, you can view the list of exported entities, download or delete them, and view the scheduled export in the system and reschedule them accordingly.

👩 Dashboard	« System Maintenance - Exported Entities												
Device Control	Exported Entities				^								
Content Aware Protection	· · · · · · · · · · · · · · · · · · ·												
eDiscovery	List of exports Scheduled exports Settings exports												
Denylists and Allowlists	- Filters v												
Enforced Encryption	Select al entries												
Offline Temporary Password	Show 10 v entries Excel PDF CSV Show/Hde Columns Reload												
Reports and Analysis	Export Name	Export Type     Export	t Entities Export Recurrence	Greated at	<ul> <li>Actions</li> </ul>								
Alerts	assistant (10.000)	Factor -	10x704x	and the second sec	:=								
Directory Services	O reprised UNITED A REPORT	100	DecTries	20212101008	:=								
G Appliance	Description (SELECTION)	CH1000 ·	Dischie	20212-010-0082	:=								
System Maintenance	Showing 1 to 3 of 3 entries				Previous 1 Next								
File Maintenance <u>Exported Entities</u> System Snapshots Arvitt Los Bridam	Delete				Back								
Potan by bedoup System Backup System Backup v2 File Shadows Repository													
System Configuration													

You can initiate the manual generation of the scheduled export from the Device Control, List of Devices / List of Computers / List of Users / List of Groups sections.

0	Dashboard	<	Device Control - [	Devices	5										
e	Device Control	List	List of Devices										~		
	Dashboard Devices Computers	- Fil	iters 🗸												
	Groups Global Rights	Sh	ow 10 🗸 entries								Excel	PDF (	Show/H	Hide Columns	Reload
	Global Settings File Allowlist		Device Name	Device Type	φ	Description \$\$	VID (	PID 0	Serial Number	φ.	Device 0	Last User	Last Computer	Last Seen	Actions
	Custom Classes		Bluetooth Device	Bluetoot	h	Bluetooth Device/Broadcom							Pio	28 12:20:21	:=
	Content Aware Protection	0	Bluetooth Device	Bluetoot	h	Bluetooth Device/Broadcom								2021-02-24	:=
7	eDiscovery		Communications Port (COM1)	Serial Po	ort	Communications Port (COM1)/(Standard port types)									:=
	Denylists and Allowlists	0	Communications Port (COM1)	Serial Po	ort	Communications Port (COM1)/(Standard port types)								2021-02-25	:=
0	Enforced Encryption		Cruzer Glide	USB Sto Device	rage	Cruzer Glide/SanDisk								2021-02-26	:=
	Offline Temporary Password	0	DATATRAVELER_3.0	USB Sto	rage	DATATRAVELER_3.0/KINGSTON								25	:=
2	Reports and Analysis	0	DT microDuo 3.0	USB Sto	rage	DT microDuo 3.0/Kingston							OA MacBook	2021-02-26	:=
	Alerts	0	FLASH_DISK	USB Sto	rage	FLASH_DISK/GENERIC								2021-02-26	:=
o	Directory Services		Generic PostScript	Network		Ganaria PoetSoriat Printer/							OA MacBook	2021-02-26	:=
	Appliance	0	Generic PostScript	Network	ever every exercise every exercise every exercise every every exercise every every e	xport List of Devices chedule Export List inter/								2021-02-26	:=
Yi	System Maintenance	Choud	Primer	Printers	Ex	xport Devices (JSON)							1200		2 11-1
٥	System Configuration	31001	ig 1 to 10 til 19 entites	_	In 📃	nport Devices (JSON)								revious	2 Next
	System Parameters		Create Cho	oose actio	on l	Delete									Back
	Support	<u> </u>													
		•													

Device Control - Schedule Export			×
The list of endpoints will be scheduled for export accord also be sent to the Administrators that chose to receive	ling to the set them.	date and time below. Automatic emails will	
Run:	Start d	ate:	
Daily (every day)		2019-10-17 14:58:44	
Weekly (every 7 days)			
<ul> <li>Monthly (every 30 days)</li> </ul>			
		Schedule	

The scheduled exports can be sent automatically via e-mail to all the Administrators that have the **Scheduled Export Aler**t setting enabled.

The Scheduled Exports are reoccurring (Daily / Weekly or Monthly), and, as such, will continuously take up more and more storage on the Endpoint Protector Server.

To maintain performance and, since these exports can also be sent automatically via e-mail to specific Administrators, the Scheduled Exports already generated are automatically deleted from the Server after 14 days.

For performance reasons, the Scheduled Exports and Disable Logging option allows you to also keep the logs on the Endpoint Protector Server or only have them in the SIEM Server.

## 15.3.System Snapshots

The System Snapshots module allows you to save all device control rights and settings in the system and restore them later if needed.

**Important**: After installing the Endpoint Protector Server, we strongly recommend that you create a System Snapshot before modifying anything. In this case, you can revert back to the original settings if you configure the server incorrectly.



To create a System Snapshot, go to System Configuration and click Make Snapshot.

Enter a name for the snapshot and a description. Select the items to store in the snapshot, **Only Rights**, **Only Settings**, or **Both** and then click **Save**.

The snapshot will appear in the list of System Snapshots.

To restore a previously created snapshot, click **Restore** next to the snapshot, and then confirm your action.

0	Dashboard	«目 Restore Snapshot			
	Device Control	A By restoring a snapshot, all currently defined <u>rights and settings</u> will be overwritten.			
	eDiscovery				
	Denylists and Allowlists	Nme: Text			
	Enforced Encryption	Unscription: Test Test Details: Settings for 4 machines and 2 groups. There are 0 rights defined for existing devices. System uses both user and computer rights, priority for computer rights.			
	Offline Temporary Password	Options			
200	Reports and Analysis	Restore: Only rights Only settings  Both			
	Alerts	S Restore L Back			
	Directory Services				
	Appliance				
Yi	System Maintenance				
	File Maintenance Exported Entities System Snapshots Audit Log Backup External Storage System Backup v2 File Shadows Repository				
Ø	System Configuration				
E	System Parameters				
	Support				

### 15.4. Audit Log Backup

Similar to the Log Backup and Content Aware Log Backup, this section allows old logs to be saved and exported. The options to select the number of logs to be exported, period and file size are available, as well as the option to view a Backup List or set a Backup Scheduler.

Both the Audit Log Backup and Audit Backup Scheduler offer several options like what type of logs to backup, how old should the included logs be, to keep or delete them from the server, to include file shadows or not, etc.

🕥 Dashboard	🛢 System Maintenance - Audit Log Backup			
Device Control	This section allows management of old logs. Choose which logs you want to backup and export or delete from the database.			
Content Aware Protection				
eDiscovery	iake Backup ^			
Denylists and Allowlists	Choose what type of backup to create Z Audit Log Backup Z Audit Context Aware Log Backup Z Audit eDiscovery Log Backup			
Enforced Encryption	Keen or delete loss from server when creation the harkun			
Offline Temporary Password	Rece P v Galetae hygi h win Bei Hos Winesi Goading Une brockupp Keep backad up logs  Keep backad up logs Keep backad up shadows			
Reports and Analysis	Q Lawing the above epities undexted will delete ad logs from the server and improve performance.			
🛆 Alerts	🖓 Large file shadows will affect the export procedure and the server performance. This should be managed separately prior to export.			
Directory Services	Choose what logs to backup Average number of logs in one pack			
G Appliance	All * 1,000,000 *			
System Maintenance	Chose backup export format			
File Maintenance Exported Entities	e csv			
System Snapshots Audit Log Backun	Choose what File Shadows to include			
External Storage System Backup	Do not include file shadows     O Include all file shadows repardless of size     O Include file shadows smaller than     MB			
System Backup v2 File Shadows Repository	Start			
System Configuration	An Audit Log Backup is currently scheduled!			

However, the main difference comes from the fact that the exported logs come in an improved visual model, making things easier to audit or to create reports for executives.

The Backup export CSV file will differ based on the Endpoint Protector Server version used:

- For Endpoint Protector 5.6.0.0 or older, the CSV file reports a file for each threat discovered
- For Endpoint Protector 5.7.0.0, reports, only one file containing all threats discovered, separated by an underscore

ENDPO PROTEC	INT 4 Logs Rep	ort						
Logs Filetrace Sha	adows							
Collection Shadow 2016	-01-28 17:22:13 - 2016-01-28 1	/:23:07 -					County .	
Username	Machine Name	🍦 machine Ip	Filename	Filehash 🕴	FileSize(Kb) 🕴 Filetype	Event Time	Log	Action
Andrea Prop	ANDREIP-WIN10	192.168.15.34	1 - Сору (10) - Сору - Сору - Сору - Сору - Сору - Сору.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:13	3701560558433075842	8
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (10) - Copy - Copy - Copy - Copy - Copy.bxt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075843	
Andrei Pap	ANDREIP-WIN10	192.168.15.34	1 - Copy (10) - Copy - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075844	
Andrei Pap	ANDREIP-WIN10	192.168.15.34	1 - Copy (10) - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075846	<b></b>
Andres Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (10) - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075847	8
1100 miles	ANDREIP-WIN10	192.168.15.34	1 - Сору (100) - Сору - Сору - Сору - Сору - Сору.txt	15530/b1a715e1760e2205be14b8/71a	0.01	2016-01-28 17:22:14	3701560558433075850	
Andrea Nep	ANDREIP-WIN10	192.168.15.34	1 - Copy (100) - Copy - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075851	
Andres Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (100) - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075852	<b></b>
Andrea Prop	ANDREIP-WIN10	192.168.15.34	1 - Сору (100) - Сору - Сору - Сору - Сору - Сору - Сору.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075849	
Analysis' Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (100) - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075853	
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (10).txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075848	
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (10) - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075845	
Andrei Pap	ANDREIP-WIN10	192.168.15.34	1 - Copy (100) - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075854	
1100 Tep	ANDREIP-WIN10	192.168.15.34	1 - Сору (1000) - Сору - Сору - Сору - Сору - Сору.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075855	
Andrei Pap	ANDREIP-WIN10	192.168.15.34	1 - Copy (1000) - Copy - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075856	
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (1000) - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075857	
Andrei Pap	ANDREIP-WIN10	192.168.15.34	1 - Copy (1000) - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:14	3701560558433075858	8
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (1001) - Copy - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075860	
Andrei Pap	ANDREIP-WIN10	192.168.15.34	1 - Copy (1001) - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075861	
Andrea Trap	ANDREIP-WIN10	192.168.15.34	1 - Copy (1002) - Copy - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075864	
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (1002) - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075865	
Andres Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (1002) - Copy - Copy - Copy - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075863	
Analysis Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (1002) - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075866	
Andrea Page	ANDREIP-WIN10	192.168.15.34	1 - Copy (1001) - Copy - Copy.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075862	8
matrix trip	ANDREIP-WIN10	192.168.15.34	1 - Сору (1001) - Сору - Сору - Сору - Сору - Сору.txt	15530fb1a715e1760e2205be14b8f71a	0.01	2016-01-28 17:22:15	3701560558433075859	
Search Username	Search Machine Name	Search machine Ip	Search Filename	Search Filehash	Search FileSize(Kb) Search Filetype	Search Event Time	Search Log	
Showing 1 to 25 of 828 e	ntries					Previous 1	2 3 4 5	34 Next

### 15.4.1. Audit Log Backup Scheduler

While the Audit Log Backup starts the backup instantly, the Audit Log Backup Scheduler provides the option to set the procedure for a specific time and the frequency of the backup (every day, every week, every month, every year, etc.).

« 🛢 System Maintenance - Audit Log Backup					
Schedule Backup		^			
Choose what type of backup to create					
Schedule Audit Log Backup	Schedule Audit Content Aware Log Backup	Schedule Audit eDiscovery Log Backup			
Choose the frequency for the backup					
Every month 💌					
Keep or delete logs from server when creating t	he backup				
C Keep backed up logs	Keep backed up shadows				
Q Leaving the above options unchecked will delete old logs from the server and improve performance.					
Earge me shadows will arrect the export procedure and the s	erver performance. This should be managed separately pror to exp	UK-			
Choose what logs to backup		Average number of logs in one pack			
Older than 1 month		1,000,000 -			
Choose backup export format					
● CSV					
Choose what File Shadows to include					
Do not include file shadows	$\bigcirc\ $ Include all file shadows regardless of size	O Include file shadows smaller than MB			
Schedule Cancel					
Cancel					

# 15.5. External Storage

From this section, you can externalize files generated by Endpoint Protector to a particular storage disk from the network. Files such as Shadows, Audit Log Backups and System Backups can be saved to an FTP, SFTP or Samba / Network Share server.

You can enable the option to keep a copy of the files on the Endpoint Protector Server for all External Storage Types.

	-						
Dashboard	« System Maintenance - Exte	rnal Storage					
Device Control	Before testing the connection, it is required to say	Refere better the respective. It is respired to case the numeric settings to the database.					
Content Aware Protection							
eDiscovery	Endpoint Protector Server - Exte	Endpoint Protector Server - External Storage Settings					
Denylists and Allowlists	External Storage:	ON D	External Storage Type:	Samba / Network Share 👻			
Enforced Encryption							
Offline Temporary Password	Enable Storage:		Keep copy on EPP Server:				
Reports and Analysis	Externalize Files:	× Shadows × Audit Log Backup × System Backups	Authentication Security:	Default ~			
Alerts	Domain or Workgroup:	e.g.: cososys.com or WORKGROUP	Mount Point:	//192.168.14.20/homes/username/			
Directory Services	Remote Directory:	/samba/	Protocol Version:	Default ~			
G Appliance	Username:	username	Password:	•••••			
System Maintenance							
File Maintenance Exported Entities	Save Test			Back			
System Snapshots							
Audit Log Backup External Storage							
System Backup							
File Shadows Repository							
System Configuration							
System Parameters							
🔘 Support							

### 15.5.1. FTP Server

To configure an FTP Server, provide the following information:

- Externalize Files the Endpoint Protector files: Shadows, Audit Log Backup or System Backups
- Server IP Address the IP of the external server
- **Remote Directory** a specific location on the external directory
- Username the username of the external server
- Password the associated password
- Enable Storage
- Server Port
- Passive Connection
- Anonymous Login

🕥 Dashboard	< 🗃 System Maintenance - External Storage						
Device Control	Before testing the connection, it is required to save the current settings to the database. $ imes$						
Content Aware Protection							
eDiscovery	Endpoint Protector Server - Exte	rnal Storage Settings		^			
Denylists and Allowlists	External Storage:	ON O	External Storage Type:	FTP Server 👻			
Enforced Encryption	Fachia Stamon		Vera service FDD Conver				
0ffline Temporary Password	Enable Storage:		Neep copy on EPP server:				
Reports and Analysis	Externalize Files:	× Shadows × Audit Log Backup × System Backups	Server IP Address:	192.168.14.20			
Alerts	Remote Directory:	/epp/files/	Server Port:	21			
Directory Services	Passive Connection:	OFF	Anonymous Login:	OFF			
	Username:	Username	Password:	Password			
🖬 System Maintenance							
File Maintenance Exported Entities System Snapshots Audit Log Backup External Stonage System Backup 2 System Backup 2 File Shadows Repository	Save Test			Back			
System Configuration							
E System Parameters							
5 Support							

### 15.5.2. SFTP Server

To configure an SFTP Server, provide the following information:

- Externalize Files the Endpoint Protector files: Shadows, Audit Log Backups or System Backups
- Server IP Address the IP of the external server
- **Remote Directory** a specific location on the external directory
- Server Port the port of the external storage server
- Username the username of the external server
- Password the associated password

### • Enable storage

Dashboard	« System Maintenance	« 🗏 System Maintenance - External Storage				
Device Control	Before testing the connection, it is rec	Before testing the connection, it is required to save the current settings to the database.				
Content Aware Protection	Endpoint Protector Serve	er - External Storage Settings		*		
Denylists and Allowlists	External Storage:		External Storage Type:	SFTP Server 👻		
O Enforced Encryption	Fachle Channes		Kana anna an FDD Panana			
Offline Temporary Password	Externalize Files:	× Audit Log Backup	Server IP Address:	192.168.7.198		
Reports and Analysis	Remote Directory:	/home/epproot/logs/	Server Port:	22		
Alerts	Username:	epproot	Password:	•••••		
Appliance						
System Maintenance	Save Tes			Back		
File Maintenance Exported Entities System Snapshots Audt Log Backup <u>External Storage</u> System Backup 2 System Backup 2 File Shadows <i>Repository</i>						
System Configuration						
System Parameters						
🦲 Support						

### 15.5.3. Samba / Network Share Server

To configure a Samba / Network Share Server, provide the following information:

- Enable Storage
- Keep copy on EPP Server enable this setting to create; a backup of the storage on the Endpoint Protector Server
- Externalize Files select the Endpoint Protector files: Shadows, Audit Log Backup or System Backups
- Authentication Security select the security protocol: Default, NTLM, NTLMv2, NTLMSSP
- Domain or Workgroup only where applicable
- Mount Point
- Remote Directory a specific location on the external directory
- Protocol Version
- Username the username of the external server
- Password the associated password

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# 15.6.System Backup

### 15.6.1. From the Web Interface

This module allows you to make complete system backups.

Dashboard	«目 System Maintenance - System Backup
Device Control	List of System Backups
Content Aware Protection	Plane
eDiscovery	
Denylists and Allowlists	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload
O Enforced Encryption	C Backup Name () Description () Server Version () File Name () File Hash () File Size () Created at () Status () Actions ()
Offline Temporary Password	No data available in table
Reports and Analysis	Showing 0 to 0 of 0 entries Previous Next
Alerts	Create Import and Restore (Migrate) Back
Directory Services	
🖬 System Maintenance	
File Maintenance Exported Entities System Snapshots	
Audit Log Backup External Storage	
System Backup	
File Shadows Repository	
System Configuration	
System Parameters	
0 Support	

To view the list of current backups, go to System Maintenance, System Backup v2.

To restore the system to an earlier state, click **Restore** next to the entry and then confirm your action.

#### **Important**: Once deleted, a backup cannot be recovered.

The **Download** button will prompt you to save the **.eppb** backup file on the local drive. It is recommended to keep a good record of where these files are saved.

**Important:** When using the Restore Backup feature, we recommend requesting assistance from <a href="mailto:support@endpointprotector.com">support@endpointprotector.com</a>.

ackup Details	
Name:	Backup 12122014
Description:	Just your regular backup.
Database Content:	The entire database content will be saved
Application Sources:	The entire application sources will be saved ??

On the Make Backup section, you have the following options:

- Save the **Database content** the backup file will contain all the devices, rights, logs, settings and policies present on the EPP server at the making of the backup.
- Save the Application sources the backup will contain files such as the EPP clients and others related to the proper functioning of the server.

**Note**: The System Backup will not contain nor preserve the IP Address, File Shadowing copies or the Temporary Logs Files.

The second section, **Status**, returns the state of the system. If a backup creation is in progress, it will be reported as seen below.

System Backup Status						
System	Backup Status					
Creating s	system backup 30% d	lone				
\$	Refresh	1	Back			

If the system is idle, the button will return the last known status, which by default is set at 100% done.

The next menu, **Upload**, allows you to populate the backup list with **.eppb** files from the local filesystem. This functionality is useful in cases of server migration or crash recovery.

**Important**: Endpoint Protector Backup Files (.eppb) larger than **200 MB** can only be uploaded from the console of the appliance. We recommend that you contact Support when a created .eppb file exceeds this 200 MB limit.

Jpload Syst	em Backup				
					Upload System Backu
Choose Syst	tem Backup File:			Browse No file select	ted.
* Note: Plaz	ee use a valid, epob file				
NOLE: Plea	ise use a valiu .eppb file	-			
8	Upload	1	Back		
	Choose Syst * Note: Plea	Jpload System Backup Choose System Backup File: * Note: Please use a valid .eppb file	Jpload System Backup Choose System Backup File: * Note: Please use a valid .eppb file.	Jpload System Backup Choose System Backup File: * Note: Please use a valid .eppb file. Upload	Jpload System Backup Choose System Backup File:  * Note: Please use a valid .eppb file.  Upload Upload L Back

From this section, you can schedule an automatic backup routine by setting a trigger condition, the **System Backup time interval**. The routine can be set to run daily, weekly, monthly and so forth.

The Scheduler will also prompt the administrator with the Last Automatic System Backup reminder.

Note: A scheduled routine is recommended in order to prevent unwanted loss.

List of Available Backups			
S Backup scheduled successfully			
System Backup Scheduler			
This option allows you to schedule an automatic system backup routine.			
Backup Trigger conditions:			
System Backup time interval: every 2 weeks			
Last Automatic System Backup: 10-Oct-2014 (13:39:02)			
Save Back			

### 15.6.2. From the Console

Endpoint Protector offers the option to revert the system to a previous state from the administrative console on which the initial configuration occurs.

Endpoint Protector Appliance - www.EndpointProtector.com
CoSoSys Ltd Endpoint Protector Appliance
Your current appliance IP is 192.168.7.151
Please access your appliance through this address https:\\192.168.7.151 from your web-browser After accessing the appliance interface through your web-browser you will see a certificate error. Please ignore it.
Your current setup IP is 111.33.33.111
Please select option [1 - 4] or press <exit> to exit</exit>
System Backup Backup Backup
4 Shutdown 5 Exit to Shell
L
<pre> KSelect&gt; K Exit &gt; K Kit &gt; K Kit</pre>

The #2 menu presents you with the following options:

- 1. **System Restore** can be performed if a system backup has been performed prior to the event, using the web interface
- Import can be performed if a .eppb file has been downloaded and saved on an FTP server
- 3. **Export** –can be performed in order to save existing backups on an existent FTP server

To either import or export the .eppb files, an administrator will need to provide the system a valid FTP IP address and the path inside its filesystem to the .eppb file.

An example is shown below:

Host	:	192.168.0.3	
User	:		
Password	:		
Path	:	/Backups/test.eppb	
atn	·	/Backups/test.eppb	

# 15.7.System Backup v2

From this section, you can migrate the database (entities, rights, settings, policies, configurations, etc.) from an older Endpoint Protector Server to a newer one.

**Note**: This feature is not intended as a replacement for the System Backup functionality but rather as a migration tool from older Endpoint Protector images to the ones starting with version 5.2.0.6.

The version of the old Server and the new Server will have to be the same. Before starting the migration process, make sure both Servers have the same version (e.g.: update the old server to 5206, aligning it with the new server that is about to be deployed).

It does not include logs, Audits or System Backups. If needed, these should be downloaded before proceeding.

### Example

The initial Endpoint Protector deployed was version 4.4.0.7. Over time, updates were applied though the Live Update section, bringing the appliance to Endpoint Protector version 5.2.0.6. While these constantly included patches and security updates, they did not include a full rollout of a new core OS version (e.g.: the appliance is still running on Ubuntu 14.04 LTS).

As Ubuntu 14.04 no longer receives security patches since 2019, those that want to migrate to a Server running on the latest Ubuntu LTS version should take advantage of this functionality.

9	Dashboard	« System Maintenance - System Backup
	Device Control	List of System Backups
P	Content Aware Protection	- Ellars a
	eDiscovery	
	Denylists and Allowlists	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload
0	Enforced Encryption	Description Descri
	Offline Temporary Password	No data available in table
2	Reports and Analysis	Showing 0 to 0 of 0 entries Previous Next
	Alerts	Create Import and Restore (Migrate) Back
Ø	Directory Services	
	Appliance	
81	System Maintenance	
	File Maintenance Exported Entities	
	System Snapshots	
	Audit Log Backup External Storage	
	System Backup	
	System Backup v2 File Shadows Repository	
0	System Configuration	
E	System Parameters	
	Support	

### 15.7.1. Creating a System Backup v2 (Migration)

You can create a new migration backup from the **System Maintenance**, **System Backup v2** section.

System Backup Information							
Details							
Backup Name:	Backup Name	Description:	Description				
Server Version:	5.2.0.6	Identification:	7164873712				
Save			Back				

**Note**: For security purposes, the **System Backup Key** will not be stored by the Endpoint Protector. Before proceeding, make sure it is properly saved.

The System Backup will be created shortly and it will not include logs. Please save the below Backup Key as it w required when restoring this System Backup. This key will not be saved by Endpoint Protector and therefore car be recovered later. Continue?						
System Backup Key:	B1V0VJAEJ8OOKWO4					

### 15.7.2. Importing and Restore (Migrate)

A backup can be restored on the same Endpoint Protector Server. However, the main use case would be to import and restore the backup on a newer Endpoint Protector Server (e.g.: version higher than 5.2.0.6).

The migration process of a System Backup requires the backup file and System Backup Key.

**Note**: If needed, previous System Backups or Audit Log Backups should be downloaded prior to this step, as they will not be kept in process.

After the Import and Restore (Migration) has been made to the new Appliance, the old Appliance should be turned off. Its IP would then have to be reassigned to the new Appliance in order for the deployed Endpoint Protector Clients to start communicating with the new Appliance.

System Backup - Import and Restore ×							
igcap This is intended as a migration tool to a newer Endpoint Protector Appliance							
If needed, make sure to use the Audit Log Backup before proceeding as Logs will not be kept. Previous System Backups should also be downloaded beforehand as only the System Backup you are about to import and restore v remain.							
Import:	Choose File						
System Backup Key:	System Backup Key						
	Import						

# 15.8. File Shadow Repository

From this section, you can enable the Endpoint Protector Client to send File Shadows directly and at a global level to an externalized location, the File Shadows Repositories.

You can create multiple File Shadow Repositories and define how each endpoint manages the File Shadows based on department and repository type.

**Note**: In Endpoint Protector, the Department defines a collection of entities with the same attributes. It should not be confused with the department from an organizational chart.

Starting with Endpoint Protector Server version 5.8.0.0, file shadowing was made more reliable on macOS and Linux by first relying on OS features to transfer the files.

- 1. on Mac/Linux:
  - primary: LDAP (as-is)
  - fallback: curl (as-is)
- 2. on Windows:
  - primary: LDAP
  - fallback: curl

To create a File Shadow Repository, click **Add** and then provide the following information:

- **Department** assign one or more departments to the File Shadow Repository
- **Repository Type** select the type of repository, FTP, Samba (smbv1), Azure File Storage and Samba (smbv2) or S3 Bucket

**Note:** If you select S3 Bucket type, the information required to create a File Shadow Repository will differ. Read more on <u>S3 Buckets File Shadow Repository</u> in the following section.

**Note:** The minimum permissions required for Samba shares is 750 (case owner has full access and the Group has only Read and Execute).

- Repository IP Address add the File Shadow Repository IP address
- **Port** add the port used by the File Shadow Repository

**Note**: You are not required to define the port for Samba (smbv1) or Azure File Storage and Samba (smbv2) repositories.

- Folder Path add the folder path where File Shadows will be saved
- Username and Password add the repository credentials

1	Dashboard	« System Maintenance - File Shadows Repository						
٢	Device Control	File Shadows Repository						
P	Content Aware Protection	O This feature applies at a global level and relates t	to the Endnoint Protector Client sending the File Shad	lows directly to the defined R	epositories.			
	eDiscovery							
	Denylists and Allowlists	Externalize File Shadows:	ON O		Add			
0	Enforced Encryption	File Shadows Repository A						
	Offline Temporary Password	Department:	× Default Department	~ <b>6</b>	Repository Type:	Azure File (Samba)	<b>√</b> ▼	
	Reports and Analysis	Repository IP Address:	172.000.0.0	✓ 0	Port:	e.g.: 21	0	
	Alerts	Folder Path:	/example/here/	✓ 0				
Ø	Directory Services	Username:	User	•	Password:	••••••		
	Appliance							
Yi	System Maintenance	Delete						
	File Maintenance Exported Entities							
	System Snapshots	Save					Back	
	Audit Log Backup							
	System Backup							
	System Backup v2							
	File Shadows Repository							
6	System Configuration							

### 15.8.1. Test Connection

The "Test" button facilitates the verification process for FTP and S3 bucket repositories (Indirect artifact retrieval). This functionality enables you to authenticate and execute a dummy file upload using the provided credentials.

- 1. **FTP Repository:** The "Test" button verifies authentication and file upload.
- S3 Bucket Repository (Indirect Artefact Retrieval): The "Test" button checks key, secret\_key, and validates bucket region and name if authentication response was successful.

**Note:** The Test Connection for S3 Bucket (Direct Artefact Retrieval), Samba v1, Samba v2, and Azure File Storage Repository is not supported due to additional 3rd Party requirements, such as IP Whitelisting, smbclient, etc..

This enhancement aims to make the testing process more transparent and efficient for FTP and S3 bucket repositories while considering the specific requirements of each repository type.

### 15.8.2. S3 Bucket File Shadow Repository

The Amazon S3 bucket is a public cloud object storage resource available from Amazon Web Services (AWS) Simple Storage Service (S3).

S3 Bucket type File Shadow Repository supports large files up to 5TB (AWS specification).

To create an S3 Bucket type File Shadow Repository on Endpoint Protector, provide the following information:

- **Repository Type** select S3 Bucket as the type of repository
- Department assign one or more departments to the File Shadow Repository
- S3 Bucket Region depending on the artifacts retrieval method, select one of the options from the drop-down list or add a bucket region corresponding with the AWS S3 Bucket settings
- S3 Bucket Name add a name for the bucket repository corresponding with the AWS S3 Bucket settings
- S3 Location add a specific sub-folder location in the AWS S3 Bucket
- Access Key ID add the Key for S3 Bucket corresponding with the AWS S3 Bucket settings
- Secret Access Key add the Token Key generated for a user corresponding with the AWS S3 Bucket settings

Select the artifacts retrieval method:

1. **Indirect Artefact retrieval** – this is the recommended and most secure option to retrieve artifacts via the Endpoint Protector Server.

In this approach, when the download button is pressed, a request is sent to AWS to verify the file's presence in the bucket. If the file is not found, the EPP server responds with a message: **"The object object\_name does not exist in the S3 Bucket Repository."** In the case of the file's existence, a subsequent request to AWS is made to obtain a pre-assigned URL for the shadow, which is then used to initiate the shadow download.

**Note:** The EPP server does not acquire a copy of the shadow at any point during this transaction. It only receives confirmation that the shadow exists in the S3 Bucket repository.

# Users then download the shadows directly from the S3 bucket using a preassigned URL provided by AWS.

You can download or delete an object using SDK, which limits the regions available to the following:

- us- west1 Northern California
- us-west2 Oregon
- eu-west1 EU (Ireland)
- ap-southeast-1 Asia Pacific (Singapore)
- ap-southeast-2 Asia Pacific (Sydney)
- ap-northeast-1 Asia Pacific (Japan)
- sa-east-1 South America (São Paulo)
- us-gov1-west-1 United States GovCloud
- fips-us-gov-west-1 United States GovCloud FIPS 140-2
- Direct artifact retrieval this option is dedicated to globally distributed Endpoint Protector deployment. This method will establish a direct connection from the system administrator's computer to the S3 Bucket Repository and initiate direct artifact download.

**Important:** To set up the S3 bucket repository using both the Direct and Indirect methods, administrators are required to specify the 'Bucket Name' and generate the 'Access Key ID' and 'Secret Access Key' through AWS administration.

**Note**: To use the direct artifact retrieval method, add the Endpoint Protector Server IP in the S3 Bucket whitelist as detailed below.

You can download or delete file shadows from the Reports and Analysis section, the Logs Report page, and the Content Aware Report page using the Actions column.

When a file is uploaded, an External Repository Upload log will be displayed.

# **Important**: File shadows contained in the S3 Bucket (File Shadow Repository) will not be included in the Audit.

The shadows Repository A					
Department:	Select Department 👻	0	Repository Type:	S3 Bucket	<b>v</b> -
S3 Bucket Name:	Bucket Name		S3 Bucket Region:	Select a region	-
S3 Bucket Location:	e.g.: example/here/	0			
Access Key ID:	Access Key ID		Secret Access Key:	Secret Access Key	
Indirect artefact retrieval			O Direct artefact retrieval		
Delete					

**Note**: In the scenario where there may be an unreliable network, the Client will attempt to upload the artifact 10 times before the guard-rail will stop upload attempts. This will delete the File Shadow from the queue to ensure endpoint performance, disk space utilization, and mobile transfer limits are not affected.

### 15.8.2.1. Domain whitelisting

To add the Endpoint Protector Server IP to the S3 Bucket whitelist, follow these steps:

- 1. Log in to AWS;
- 2. Click on an entry from the S3 Bucket list;

aws Services Q Search	[Option+S]		Ъ 🗘 Ø Global ▼
Amazon S3 ×	Amazon 53 > Buckets		٥
Buckets Access Points	Account snapshot     Last updated: Feb 1, 2023 by Storage Lens. Metrics are generated every 24	hours. Learn more 🖸	View Storage Lens dashboard
Object Lambda Access Points Multi-Region Access Points Batch Operations IAM Access Analyzer for 53	Total storage Object cou 119.9 MB 73.5 k	nt Average object size 1.7 KB	You can enable advanced metrics in the "default-account-dashboard" configuration.
Block Public Access settings for this account	Buckets (3) Info Buckets are containers for data stored in 53. Learn more 🖸 Q. Find buckets by name	C	C         Copy ARN         Empty         Delete         Create bucket           < 1
<ul> <li>Storage Lens</li> <li>Dashboards</li> </ul>	Name	▼ AWS Region ♥ Access	
AWS Organizations settings	Obucket	EU (Frankfurt) eu-central-1 Bucket and objects	not public February 3, 2023, 12:38:57 (UTC+02:00)
	O an - to do any trade to the trade to	EU (Frankfurt) eu-central-1 Bucket and objects	not public May 6, 2022, 09:19:34 (UTC+03:00)
Feature spotlight	O ministrative provide the second second	US East (N. Virginia) us-east-1 Bucket and objects	not public May 4, 2022, 11:16:59 (UTC+03:00)
AWS Marketplace for 53			

3. On the S3 Bucket, select the **Permission** tab, scroll down to the **Bucket** policy section, and then click **Edit**;

aws Services Q Search	(Option+5)						
Amazon S3 ×	bucket 🗤						
Buckets Access Points	Objects         Properties         Permissions         Metrics         Management         Access Points						
Multi-Region Access Points Batch Operations	Permissions overview						
IAM Access Analyzer for S3	Access Burket and objects not public						
Block Public Access settings for this account Storage Lens	Block public access (bucket settings) Public access is granted to buckets and objects through access centrol lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your 53 buckets and objects is blocked, turn on Block all public access. These settings						
Dashboards AWS Organizations settings	apply only to this backet and its access points. AWS recommends that you turn on Block all public access, bot before applying any of these sattings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more <b>C</b>						
Feature spotlight AWS Marketplace for S3	Block all public access         O Gn         Individual Block Public Access settings for this bucket						
	Bucket policy The bucket policy, written in JSON, provides access to the objects stored in the bucket, Bucket policies don't apply to objects owned by other accounts. Law more 🕜						
	Public access is blocked because Block Public Access settings are turned on for this bucket     To determine which settings are turned on, check your Block Public Access settings for this bucket. Learn more about using Amazon S3 Block Public Access []						
	{     ``Version``2012-10-17',     ``Version``2012-10-17',     ``Statement': {     ``Statement': {     ``						

- 4. On the Bucket Policy, add the following IPs:
  - Static IP address of the Administrator endpoint for download
  - EPP External Server IP address to delete
- 5. Use the **Policy generator** from the top-right corner to help you edit or create a new Bucket policy this will open a new page with the AWS Policy Generator.

aws III Services Q Search	[Alt+S]	Þ	¢	0	Global 🔻	Angeland Strange and	PRO- INC.	
Amazon S3 ×	Amazon S3 > Buckets > dev-test-bucket-alex > Edit bucket policy							٩
Buckets Access Points	Edit bucket policy 🚥							
Object Lambda Access Points Multi-Region Access Points	Bucket policy The bucket policy written in JSON, provides access to the objects stored in the bucket, Bucket policies don't apply to objects owned by other accounts, Learn more 🖸			Policy	examples [	Policy generato		11
Batch Operations IAM Access Analyzer for \$3	Bucket ARN							Ц
Block Public Access settings for this account	Policy							
<ul> <li>Storage Lens</li> <li>Dashboards</li> </ul>	1. ( "Version": "2012-18-37", 3. "1er: "SholicyTar", 4. "Statement": [				Edi	t statement	_	

On the AWS Policy Generator, provide the following information:

- Select Type of Policy S3 Bucket Policy
- Effect select to Allow
- Principal add \*
- Actions select DeleteObject and GetObject
- Amazon Resource Name (ARN) add the ARN name
- Click Add Conditions and then select from the drop-down lists **IpAddress** as the Condition, aws:Sourcelp as the Key and add the two **IPs** separated by a comma to the Value field.

Add the Statement, click Generate Policy, and then use the Bucket Policy.

Note: For more information on this procedure, read the <u>AWS documentation</u>.

AWS Policy Generator						
The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see key concepts in Using AWS Identity and Access Management. Here are sample policies.						
Step 1: Select Policy Type						
A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.						
Select Type of Policy	S3 Bucket Policy 🗸					
Step 2: Add Statement(s)						
A statement is the formal description o	f a single permission. See a description of elements that you can use in statements.					
Effect	Allow O Deny					
Principal	*					
	Use a comma to separate multiple values.					
AWS Service	Amazon S3 ✓ ☐ All Services ('#')					
	Use multiple statements to add permissions for more than one service.					
Actions	2 Action(s) Selected   All Actions ('**')					
Amazon Resource Name (ARN)	ARN Name					
	ARN should follow the following format: arn:aws:s3:::\${BucketName}/\${KeyName}. Use a comma to separate multiple values.					
Add Conditions (Optional)	Hide					
Conditions are any restrictions or details ab	out the statement.(More Details).					
Condition	IpAddress V					
Key	aws:Sourcelp V					
Value						
	Add Condition					
Condition	Kevs					
IpAddress	aws:SourceIp: "IP"					
	······································					
	Generate Policy					

### Example: S3 Bucket Policy (JSON)

{ "Version": "2012-10-17", "Id": "S3PolicyId1", "Statement": [ }
`"Effect": "Allow", "Principal": "*", "Action": [ "s3:GetObject", "s3:DeleteObject"
], "Resource": "arn:aws:s3:::your-bucket-name/*", "Condition": { "IpAddress": { "aws:Sourcelp": [ "IP1", //the external IP of the server; it's need it for Delete action "IP2", //public IP address: It's needed for the download method
<pre></pre>

### Explanation:

- "Effect": "Allow" signifies permission granted.
- "**Principal**": "\*" extends access to anyone (you can substitute \* with an AWS account ID for limiting access to a specific account).
- "Action": ["s3:DeleteObject", "s3:DeleteObject"]" permits both the "GetObject" action and the "DeleteObject" action (Download and Delete methods).
- "Resource": arn:aws:s3:::your-bucket-name/"" designates the ARN (Amazon Resource Name) of objects in your bucket. Replace "your-bucket-name" with your actual bucket name.

# • Important: It is crucial to append / at the end of the bucket ARN, as the AWS generator does not include it by default.

- "Condition" is where you specify the IP address condition.
- For the "GetObject" method (Download action from EPP) this method requires the public IP address. To download the shadow, a proper AWS URL is constructed based on the Bucket Name, Bucket location, region, and shadow name.
- For the **"DeleteObject"** method (Delete action from EPP) this method requires the server's external IP.

In this approach, a cURL request is employed to dispatch the DELETE request to AWS S3, facilitating the removal of the object from the bucket. This request is initiated from the EPP server, necessitating the whitelisting of its external IP in the Bucket Policy.

### 15.8.2.2. Internet Connectivity Requirements

When using S3 Bucket as the File Shadows Repository type, you will need a direct internet connection in the following situations:

- For the Endpoint Protector Client to deliver File Shadows to the AWS S3 Bucket repository
- For the Endpoint Protector Server to retrieve File Shadows from the AWS S3 Bucket repository using the indirect artifact retrieval method
- For the Administrator endpoint to retrieve File Shadows from the AWS S3 Bucket repository using the direct artifact retrieval method

### 15.8.2.3. File naming and structure

### 1. File name convention

The file names will be uploaded to the S3 Bucket with URLs encoded to avoid issues with special characters. The Endpoint Protector Server will then decode to display the original name.

Example:

### File name

canada\_&\$@=;/+,?{^}%`]>[~<#|\_山人é口ǒ刀ā木ù日ì月è女ǚ子ǐ馬/马鳥/鸟niǎ目ù水.txt

### File name displayed in AWS S3 Bucket

In4w7yuqax-dev-client-bucket/2022-11-23/ComputerName/canada\_%26%24%40%3D%3B%3 A%2B%20%2C%3F%5C%7B%5E%7D%25%60%5D%3E%5B~%3C%23%7C\_%E5%B1%B1%E4%B A%BAe%CC%81%E5%8F%A3o%CC%86%E5%88%80a%CC%84%E6%9C%A8u%CC%80%E6%9 7%A5i%CC%80%E6%9C%88e%CC%80%E5%A5%B3u%CC%88%CC%8C%E5%AD%90i%CC%86 %E9%A6%AC%3A%E9%A9%AC%E9%B3%A5%3A%E9%B8%9Fnia%CC%8C%E7%9B%AEu%CC %80%E6%B0%B4%20.txt

# **Important**: File name and special characters from the computer name and location will also be encoded.

2. File name structure

### Default file name structure:

### bucketName/CurrentDate/ComputerName

- **bucket name** (In4w7yuqax-dev-client-bucket)
- current date in YYYY-MM-DD format (2022-11-23)
- computer name URL encoded

### File name structure with S3 Bucket location field specified:

### bucketName/location/CurrentDate/ComputerName

# 16. System Configuration

This section contains the Endpoint Protector Clients, System Licensing and other advanced settings, which influence the functionality and stability of the system.

# 16.1.Client Software

From this section, you can download and install the Endpoint Protector Client corresponding to your operating system.

Note: The Server and Client communicate through port 443.

When using a custom WebUI port, please contact <u>CoSoSys Support</u> to assist in configuring the Nginx configuration file.

The Windows Client installers allow the option to download the package with or without add-ons. This option fixes any incompatibility that may arise between Endpoint Protector and the specific solutions.

**Important**: Only the latest Endpoint Protector Clients are available for download. You cannot set another default Endpoint Protector Client version from the Client Software Upgrade section.

To improve the Endpoint Protector installation process, use the Endpoint Protector tool that allows you to run installation-related actions, identify your current Linux distribution, and view Endpoint Protector Release Notes.

Use the following commands:

- i install
- u uninstall
- rn release notes
- I distribution list

Note: Contact Customer Support to provide the tool as well as assistance.

Dashboard	« Client Software											
Device Control	Endpoint Protector Client Installation	Endpoint Protector Client Installation										
Content Aware Protection	The Endpoint Protector Client can be in:	The Endpoint Protector Client can be installed on:										
eDiscovery	Windows		Mac	∆ Linux								
Denylists and Allowlists												
O Enforced Encryption	Windows 11 Windows 10 Windows 8		macOS 12.0 (Monterey) macOS 11.0 (Big Sur) macOS 10.15 (Catalina)	Debian Ubuntu Linux Mint								
Offline Temporary Password	Windows 7 Windows Vista		macOS 10.14 (Mojave) macOS 10.13 (High Sierra)	RHEL CentOS								
Reports and Analysis	Windows XP Windows Server 2003/2008/2012/	2016/2019	macOS 10.12 (Sierra) MacOS X 10.11 (El Capitan) MacOS X 10.19 (Vacamita)	Fedora OpenSUSE STISE Extension								
Alerts			MacOS X 10.10 (Mavericks) MacOS X 10.8 (Mountain Lion)	SOSE Entelprise								
Directory Services	<ul> <li>Windows (32bit version) - Ver</li> </ul>	sion: 5.8.0.8	MacOS X 10.7 (Lion)	Clients for Linux distributions are only available on request due to different kernel versions and dependencies.								
G Appliance	Windows (64bit version) - Ver	sion: 5.8.0.8	O macOS - Version: 2.7.0.8	Submit Request for Endpoint Protector Client for Linux.								
System Maintenance	Note: To install the client software, plea	se provide the Endpoint Protecto	or Server IP, Port and Department Code.									
O System Configuration	Endpoint Protector Server IP:	192.168.15.173										
Client Software	Endpoint Protector Server Port:	443										
Client Software Upgrade	Department Code:	defdep										
Client Uninstall		Preserve Server Set	ttings on all download pages									
System Administrators												
Administrators Groups	🛃 Download											
System Departments												
System Settings System Licensing	Endpoint Protector Client for Windows of For more information, please refer to E	an be deployed over Active Direc adpoint Protector - User Guid	ctory. de.									
System Parameters												

**Note**: EPP Client versions are displayed in the format X.X.X.XXXX on endpoints. This version will be saved in the EPP Server database, although the web console will truncate the last 3 digits.

### 16.1.1. Bypass Proxy Settings

You have the ability to bypass proxy settings for all operating systems.

### 16.1.1.1. Windows and macOS

1. Endpoint Protector Wizard Installer

Select the option to **Use Manual Proxy Settings** from the Endpoint Protector Wizard installer and then provide the following information:

- Proxy IP: IP of the proxy server
- **Proxy Port**: Port of the proxy
- Select the Use authentication checkbox
- Username: add proxy server username
- Password: add proxy server password
- 2. CLI commands

You can also apply manual proxy settings using CLI commands:

**Example**: msiexec.exe /i "C:\Work\Tools\EPPClientSetup.5.7.1.5\_x86\_64.msi" /q REBOOT=ReallySuppress RUNNOTIFIER=0 /log "C:\Windows\TEMP\epp-upgrade.log" WSIP="192.168.18.125" WSPORT="8080" DEPT\_CODE="defdep" PROXYIP="127.0.0.1" PROXYPORT="80" AUTHUSR="user\_name" AUTHPASS="password"

Where:

• **PROXY\_IP** - IP of the proxy

- **PROXY\_PORT** Port of the proxy
- **AUTHUSR** Username (if authentication for proxy is needed)
- **AUTHPASS** Password (if authentication for proxy is needed)

You can also use CLI Commands below to install EPP Client in specific mode of working.

- WSIP server address
- WSPORT server port number
- DEPT\_CODE department code
- IPV6MAPPING IPV6 Mapping IPv4 addresses
- SUPPRESSRD suppress FileRead/FileDelete events for NS and Removable devices
- DISABLECAP disabling loading of CAP drivers (CAP will not work)

### 16.1.1.2. Linux

For Linux, you can only use CLI arguments in the options to bypass proxy settings.sh file. To do so, follow these steps:

- 1. Access the installation folder, open a Terminal, and run the following command: <cd pathToLinuxClientFolder>
- 2. To run commands as root, run the following command and type your password; <sudo su>
- 3. Open the options.sh configuration file with the following command: <gedit options.sh>
- 4. In the configuration file, you will view the following fields for the proxy setup:
  - #EPPCLIENT\_HTTPS\_PROXY=
  - #export EPPCLIENT\_HTTPS\_PROXY
- 5. Remove the **#** before each entry to apply the proxy setups;
- 6. For the first proxy setup, EPPCLIENT\_HTTPS\_PROXY, add the proxy server information in the **address:port:user:password** format.

#### Example: EPPCLIENT\_HTTPS\_PROXY=address:port:user:password

Additional CLI commands for Linux in specific mode:

- #EPPCLIENT\_SUPRESSRW suppress FileRead/FileDelete events for NS and Removable devices
- #EPPCLIENT\_DISABLECAP disabling loading of CAP drivers (CAP will not work)

# 16.2. Client Software Upgrade

From this section, you can upgrade the Endpoint Protector Client and manage the upgraded jobs. The Client Software Upgrade feature is only available for Windows and macOS Clients. To upgrade your Linux Clients, submit a request using the <u>online form</u>.

**Note**: When updating your operating system to the latest macOS Ventura, eppclient.log and eppsslsplit.log will be deleted from private/var/log.

**Important**: The feature is not compatible for Endpoint Protector instances that are running on 32-bit versions of Windows.

🕥 Dashboard	Client Software Upgrade										
Device Control	Create new Upgrade Job										
Content Aware Protection											
eDiscovery	Windows	Мас		🔬 Linux							
Denylists and Allowlists		<ul> <li>Mac OS X 10.5+ (Snow Leopa</li> </ul>	d) 2.7.0.8 🗸	Clients for Linux distribut	ions are only available on request due to						
Enforced Encryption		0 1 1		Submit Request for Endp	oint Protector Client for Linux.						
0ffline Temporary Password							Next				
Reports and Analysis											
🛆 Alerts	Upgrade Jobs						^				
Directory Services	Filters v										
🕞 Appliance	Show 10 🗸 entries				Excel PDF CSV	Show/Hide Columns	Reload				
👫 System Maintenance	Job Name	Description	on 🍦 Job status	Endpoints to update	Successfully updated	🕴 Started at 🛛 👙	Actions				
System Configuration	EPP Windows Client Upgrade 2022-09-13 11:45:28		Created				:=				
Client Software Client Software Upgrade	EPP Mac OS X 10.5+ (Snow Leopard) Client Upgrade 2022-09-12 16:11:39		Archived				:=				
Client Uninstall System Administrators	EPP Mac OS X 10.5+ (Snow Leopard) Client Upgrade 2022-09-09 13:05:31	123 test	Archived		-		:=				
Administrators Groups System Departments System Security	Showing 1 to 3 of 3 entries					Previor	is 1 Next				

**Note**: EPP Client versions are displayed in the format X.X.X.XXXX on endpoints. This version will be saved in the EPP Server database, although the web console will truncate the last 3 digits. In case EPP Client versions are identical (first 4-digits), EPP Server will still compare the full version number against each other, identifying the most recent version.

### 16.2.1. Create new Upgrade Job

To upgrade your Endpoint Protector Client, you need to create a new upgrade job, following these steps:

1. Select the OS version from the drop-down list and then click Next;

С	reate	e new Upgrade	Job					^
		Windows			🗰 Mac			🔬 Linux
		Windows	5.8.0.8	*	O Mac OS X 10.5+ (Snow Leopard)	2.7.0.8	*	Clients for Linux distributions are only available on request due to different kernel versions and dependencies. Submit Request for Endopoint Protector Client for Linux.
	0	Windows	5.7.5.6					
	0	Windows	5.6.3.1					
	0	Windows	5.6.1.1					
	0	Windows	5.5.1.6					
								Next

2. Select the groups and/or computers to perform or exclude from the upgrade and then click **Next**. You will view a summary of your selection above the table with endpoints.

**Note**: Only computers that use the operating system you previously selected will be upgraded. If you selected a group that has an endpoint using a different operating system, it will not be upgraded. If you selected a mixed group, with both computers and users, only the computers will be upgraded.

elect I	Endpoints	for upgrade										
0 Groups Selected 1 Computers Selected, 1 Computers Excepted												
Groups Computers												
Shov	v 10 🗸 en	tries				Excel PDF	CSV Show/Hide	Columns	Reload			
	Except	Computer Name 👙	Main IP	Domain 🍦	Groups 🍦	Last seen	Current version	License 🖕	Status 🍦			
		User-1-LP2	192.000.0.0			2022-09-13 09:59:08	5.6.3.1 - (Windows)	Licensed	Offline			
		User-2-LP2	2a02:a58:8481:5300:298e:155c:b7b6:c13b			2022-09-12 17:09:27	5.7.5.6 - (Windows)	Licensed	Offline			
	×	User-3-LP1	192.000.00.0			2022-09-12 09:48:10	5.7.5.6 - (Windows)	Licensed	Offline			
Showing	Showing 1 to 3 of 3 entries Previous 1 Next											
						Cancel	Back		Next			

3. Edit the default job title, add a description and confirm the upgrade job details by clicking **Start Upgrade job**. You will view the upgrade as an entry on the **Upgrade jobs** section.

**Important**: The upgrade process for the Endpoint Protector Client is impacted by a dedicated cron. Running every 5 minutes, the cron sets the upgrade process status to **Pending** and every 15 minutes checks and updates process status to **Completed** or **Completed with failures**.

Confirm Upgrade J	ob details ^
Job title:	EPP Windows Client Upgrade 2022-09-13
Description:	
OC Version	Windows
OS version:	WIIIdows
Client Version:	5.8.0.8
Selected Computers:	1
Excepted Computers:	1
Selected Groups:	0
	Cancel Back Start Upgrade Job

### 16.2.2. Manage Upgrade Jobs

From this section you can view the upgraded jobs and use the **Actions** column to view job details, cancel, pause, retry, archive or delete an entry on the list.

To continue upgrading canceled Client Upgrade jobs, use the **Retry** option from the **Actions** column.

**Note**: If you deleted or archived a Client Upgrade job, then the endpoints become available for selection in other jobs.

Upgrade Jobs						^						
Filters v												
Show 10 v entries Excel PDF CSV Show/Hide Columns												
Job Name	Description 🝦	Job status 🍦	Endpoints to update	Successfully updated	Started at 👙	Actions						
EPP Windows Client Upgrade 2022-09-13 11:45:28		Pending	-	-		:=						
EPP Mac OS X 10.5+ (Snow Leopard) Client Upgrade 2022-09-12 16:11:39		Archived	-	-		View details						
EPP Mac OS X 10.5+ (Snow Leopard) Client Upgrade 2022-09-09 13:05:31		Archived	-	-	0	Cancel Pause						
showing 1 to 3 of 3 entries												
					Ø	Delete						

### 16.3. Client Uninstall

From this section, you can perform a remote uninstall of the Endpoint Protector Client. The computers will receive the uninstall command at the same time they receive the next set of commands from the server.

If the computer is offline, it will receive the uninstall command the first time it will come online. When the uninstall button is pressed the computer(s) will be grayed out until the action will be performed.

The uninstall command can be canceled if it was not already executed.

D	Content Aware Protection	«目	Client Uninstall - List of Computers																				
	eDiscovery	The u	The uninstall command works for clients minimum versions: Windows 4.2.8.1, Mac 1.3.0.5 and Linux 1.3.1.7 ×																				
	Denylists and Allowlists	List	List of Computers																				
0	Enforced Encryption																						
	Offline Temporary Password	н	Filters •																				
	Reports and Analysis																						
	Alerts	Sh	.ow _	10 v entries															Exc	cel PDF CSV	Shi	w/Hide Columns	Reload
0	Directory Services		Co	omputer Name	÷	IP ÷	Depart	ment	÷	Workgroup	1	Domain 🗍	G	ROUPS	• •	Default User	÷	Last Seen	\$	Version	÷	License 🕴	Actions
	Appliance		-			100 100 0 110	Table 1	hear set		-					1	1993-1		100 million (* 100 million)		Anton (memory)		Licensed	:=
Yi	System Maintenance	Showi	ing 1 t	to 1 of 1 entries																		Previous	1 Next
٢	System Configuration		Un	install																			Back
	Client Software																						
	Client Uninstall																						
	System Administrators																						
	Administrators Groups System Departments																						
	System Security																						
	System Settings																						
	System Licensing																						
	System Parameters																						
	Summit				_				_		_		_		_		_		_		_		

**Note**: If the server and EPP client can't communicate due to missing server certification validation (when the certification validation setting is enabled), uninstall commands can't be executed from the EPP Server. In such cases, if you're unable to manually install the certificate on the EPP Client computer, you can temporarily disable the certification validation setting on the EPP Server and synchronize the EPP Client to retrieve an uninstall command.

### 16.4. System Administrators

From this section you can view, create, manage and delete administrators.

Content Aware Protection	« 🗧 Client Uninstall - List of Computers										
eDiscovery	The uninstall command works for clients minimum versions: Windows 4.2.8.1, Mac 1.3.0.5 and Linux 1.3.1.7 ×										
Denylists and Allowfists	List of Computers										
Enforced Encryption	Stee a	n.									
0ffline Temporary Password											
Reports and Analysis											
🛆 Alerts	Show 10 v entries Excel PDF CSV Show/hide Columns Relad	Show 10 v entries Excel PDF CSV Show/Hde Columns Reload									
Directory Services	Computer Name IP Department Workgroup Domain GROUPS Default User Last Seen Version License Actions										
🚍 Appliance											
System Maintenance	Showing 1 to 1 of 1 entries	ext									
System Configuration	Uninstall Back										
Ciert Software Ciert Software (bynade <u>ciert Unnstall</u> System Administrators Administrators System Socially System Socially System Socially System Loroning System Socially											

To create a new Administrator, under the table with existing administrators, click **Create** and then provide the following information:
- 1. **Administrator details** add the username and password, email, first and last name, phone number and then select the UI language
- 2. Account settings
  - Account is active manage the account status
  - Login Attempt Restrictions enforce a 5 to 10 minutes timeout for 5 to 10 unsuccessful login attempts before a new login attempt can be made
  - Enforce login IP restrictions restrict login attempts from specific IP addresses
  - Require password change at next login request the administrator to change password at first login; once the password is changed, this setting is automatically disabled.

**Important**: The **Require password change at next login** setting is ignored in the following situations:

- a) When the Enforce all administrator password security at next login setting is also enabled from System Configuration, <u>System Security</u>, then Require password change at next login is ignored and disabled once the password is changed.
- b) For Active Directory imported users
- c) For SSO users (Azure and OKTA) the setting is hidden
  - Failed Login Alert receive alerts for any failed login
  - Schedule Exports Alert receive alerts on any scheduled exports
  - Ignore AD Authentication allow using AD credentials to login Endpoint Protector
  - 3. Super Administrator details
    - Super Administrator enable this section to grant the Administrator access to all Departments and Endpoint Protector sections
    - **Two Factor Authentication** enforce 2FA (Two-Factor Authentication) by using the Google Authenticator previously installed on your device
    - Managed Departments assign the Administrator to one or more departments
    - Managed Administrators Groups assign the Administrator to one or more Administrators Group

Administrator Informa	ation			
Details				
Username:	Name	First Name:	First Name	
Password:	Password	Last Name:	Last Name	
Confirm Password:	Confirm Password	Phone:	Phone	
E-mail:	E-mail	UI Language:	English	
Settings				
Account is active:	ON O	Failed Login Alert:		
Login Attempt Restrictions:		Schedule Exports Alert:	ON O	
Maximum Failed Attempts:	5	Login Time Restrictions (minutes):	10	
Enforce login IP restrictions:		Ignore AD Authentication:		
IP1:	IP1	IP2:	IP2	
Require password change at next login:	ON			
Super Administrator		Two Factor Authenticator		
Super Administrator:	OFF	Use Google Authentication:	OFF	
Managed Departments		Managed Administrator G	roups	
Department:	-	Administrator Groups:		
Save				Back

#### 16.5. Administrator Types

The **Super Administrator** has complete control over the entire system. By enabling the **Import users as super administrators** settings in the Single Sign On <u>Sign On</u> section, you can grant Super Administrator privilege to all Azure Single Sign On imported users.

**Super Administrators** have access to the General Dashboard, can control Live Updates, can run Effective Rights reports, can manage Device Control, can manage Content Aware Protection (CAP) including Deep Packet Inspection (DPI), can manage eDiscovery, can manage Denylists, Allowlists, and URL Categories, can manage Enforced Encryption (EE), can manage Offline Temporary Password (OTP), can view Reporting and Statistics, manage and view Administrative Actions, manage and view Alerts, manage and view Directory Services, manage and view Appliance Configuration and SIEM Integration, manage and view System Maintenance, manage and view Systems Configuration, download and view Client Software (including Upgrade), manage system parameters , and download and view Client Software (including Upgrade).

The **Normal Administrator** is a system user with normal privileges but some limitations. They can only manage entities belonging to the system departments for which they are responsible for. Normal Administrators can be allocated to certain responsibilities inside Administrators Groups to further restrict access. They can, for example, be assigned to a Helpdesk group with specific duties such as Offline Temporary Password and Enforced Encryption, or their permissions restricted to specific modules such as Content Aware and Device Control.

Despite these restrictions, **Normal Administrators** have access to a variety of system management tools, such as Manage Device Control, Manage Content Aware Protection (CAP) (including Deep Packet Inspection (DPI)), Manage eDiscovery, Manage Denylists, Manage Allowlists, Manage Offline Temporary Password (OTP), Manage Enforced

Encryption (EE), View Reporting and Statistics, View and Manage Alerts, and Download and View Client Software (including Upgrade). They can also control system parameters.

By assigning Normal Administrators specific roles and groups, an organization can ensure that sensitive data and tools are only accessible to those who need them, while still providing their team members with the tools they need to efficiently manage the system.

# 16.6. Administrators Groups

From this section you can create and manage Administrators Groups, granting Normal Administrators with access to specific Endpoint Protector sections.

The Administrators added to these groups will only be able to view and manage the sections assigned by the selected roles.

By default, the following Administrators Groups are created:

- Offline Temporary Password Administrators grants access only to the Offline Temporary Password section
- Reports and Analysis Administrators grants access to the Reports and Analysis section
- Enforced Encryption (EE) Administrators grants access only to the Enforced Encryption section
- **Maintenance Administrators** grants access only to the Directory Services, as well as Appliance Configuration, SIEM Integration and System Maintenance.
- **Helpdesk** grants access only to the Enforced Encryption and Offline Temporary Password sections
- Device Control Administrators grants access only to the Device Control section
- Read Only Administrators grants read only access to all Endpoint Protector sections
- **Content Aware Protection (CAP) Administrators** grants access to Content Aware Protection (CAP) (including Deep Packet Inspection (DPI)) as well as Denylists, Allowlists, and URL Categories.
- eDiscovery Administrators grants access only to the eDiscovery section

To create a new Administrators Group, click **Create** and then provide the following information:

- Name add a name for the new Administrators Group
- Roles select one or more roles from the list

#### Important: The Read Only role cannot be combined with any other roles!

• **Description** - add a description of the new Administrators Group

• Select Administrators - add one or more Administrators to this group

You can also add Administrators to an Administrator Group when creating an Administrator from System Configuration, Systems Administrators section, on the Managed Administrators Groups field.

**Note**: The **Support** section will always be available in Endpoint Protector regardless of the role you assign to the Administrator Group.

P	Content Aware Protection		« System Configuration - Administrators Groups								
	eDiscovery	List	List of Administrators Groups								
	Denylists and Allowlists	- Fil	Filters v								
0	Enforced Encryption		Select all entries								
	Offline Temporary Password	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload									
	Reports and Analysis	rs and Analysis									
	Alerts		Administrators Group	Description +	Role	Modified at	<ul> <li>Modif</li> <li>by</li> </ul>	fied 🔶	Created at	Created by	Actions
	Directory Services		Offline Temporary Password	Administrators from this Group will be granted access to the Offline Temporary Password section	Offline Temporary Password Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	Appliance		Reports and Analysis	Administrators from this Group will be granted access to the Reports and Analysis section	Reports and Analysis Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
41	System Maintenance		EasyLock	Administrators from this Group will be granted access to the EasyLock section	EasyLock Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
٢	System Configuration		Maintenance	Administrators from this Group will be granted access to the Directory Services, Appliance and System Maintenance section	Maintenance Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	Client Software Client Software Upprade		Helpdesk	Administrators from this Group will be granted access to the EasyLock and Offline Temporary Password sections	Offline Temporary Password Administrator, EasyLock Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	Client Uninstall System Administrators		Device Control	Administrators from this Group will be granted access to the Device Control sections	Device Control Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	Administrators Groups System Departments		Read Only	Administrators from this Group will only be able to view the UI. It cannot be combined with other Roles.	Read Only Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	System Security System Settings		Content Aware Protection	Administrators from this Group will only be granted access to the Content Aware Protection sections.	Content Aware Protection Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	System Licensing		eDiscovery	Administrators from this Group will only be granted access to the eDiscovery sections.	eDiscovery Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
E	System Parameters	Showi	ng 1 to 9 of 9 entries							Previous	1 Next
	Support										

# 16.6.1. User Role Matrix

The EPP User Role Matrix defines the many capabilities and permissions that Administrators have based on their role. This matrix ensures that users only have access to the features they need to fulfill their duties, boosting security and lowering the chance of unintentional changes or data breaches.

		U	ser Role Mat	rix Table						
Feature	Super Admin	Normal Admin	Reports & Analysis Admin	OTP Admin	EE Admin	Maintenance Admin	HelpDesk (OTP + EE)	Device Control Admin	CAP Admin	eDiscovery Admin
View the General Dashboard	<	Х	x	x	Х	x	x	X	x	Х
Manage Live Updates	<	х	x	x	X	x	x	X	x	Х
Run Effective Rights reports	<	Х	x	x	Х	x	x	X	x	Х
Manage Device Control	<	<	х	x	Х	x	Х	√	x	Х
Manage Content-Aware Protection (CAP) including Deep Packet Inspection (DPI)	1	<	x	x	x	x	X	x	1	х
Manage eDiscovery	1	<	x	x	X	x	x	X	x	<
Manage Denylists, Allowlists, and URL Categories	<	<	X	x	X	x	Х	x	<	<
Manage Enforced Encryption (EE)	1	<	х	x	<	x	x	X	x	Х
Manage Offline Temporary Password (OTP)	<	<	х	<ul> <li>✓</li> </ul>	X	x	<	x	x	х
View Reporting and Statistics	<	<	<	x	X	x	Х	x	x	х
Manage and View Administrative Actions	<	Х	x	x	Х	x	x	х	x	Х
View and Manage Alerts	<	<	х	x	X	x	Х	x	x	х
Manage and View Directory Services	1	Х	х	x	X	<ul> <li>Image: A second s</li></ul>	x	Х	x	Х
Manage and View Appliance Configuration and SIEM Integration	1	X	х	x	X	1	x	X	x	X
Manage and View System Maintenance	1	X	х	x	X	1	x	X	x	х
Manage and View System Configuration	<	Х	х	x	X	x	X	X	x	Х
Download and View Client Software (including Upgrade)	<	<	X	х	X	x	X	x	x	x
Manage System Parameters	<	Х	х	Х	Х	x	Х	Х	X	Х
Except for Events, Manage System Parameters.	<	<	X	x	X	x	X	x	x	x

Within the EPP, there are several different user roles, each with their own set of permissions. The **Super Administrator** role is the most powerful and has access to all features, whilst other roles have more restricted access based on their job tasks.

**Note**: Each of the aforementioned roles can be assigned to a department. When in read-only mode, users are only given viewing options. This guarantees that they can obtain essential information but are unable to alter the system.

#### 16.7. Two Factor Authentication

The Two Factor Authentication (2FA) allows the login process to include an extra step requesting a temporary code generated via the Google Authenticator app. With the Two Factor Authentication on, once the user creation or edit is saved, the administrator will be redirected to a verification screen.



The Google Authenticator app will ask you to register using a unique code or QR Code. Following the registration process, your account will be added to the list with a validity timer for the unique code that will be used for the second authentication factor.

🎽 🗟 📶 82% 🗎	🂐 🗟 all 82% 📋		💐 🗟 al 76% 🗖
:	← :	Google Authenticator	
	Add an account	9	
	You can add an account selecting one of the following options:	Test	
G	Scan a barcode		
	Enter a provided key		
After you turn on 2-Step Verification for your Google Account (or other accounts), you'll need			
🕶 Your password			
A code this app will generate for you			
BEGIN			
			-

# 16.8.System Departments

This section allows you to create and manage System Departments.

Using System Departments is optional. Endpoint Protector works perfectly well with just the Default Department (defdep). Moreover, most scenarios are best covered by simply using Devices, Computers, Users, and Groups (the entities also available in AD).

The functionality becomes useful mainly in large installations, with a high number of Administrators and, where strict regulatory compliance rules are in place. Under these circumstances, departments can be created, allowing each Normal Administrators to only manage their own entities.

**Important**: This functionality should not be confused with Groups of computers and users, nor with administrators' roles.

Dashboard	«E List of Departments						
Device Control	Results	esults					
Content Aware Protection	Department Name	Description	Department Code	Actions			
eDiscovery  Denylists and Allowlists	Default Department Secret Department Public Department	New entities will belong to this departm Secret Department Description Public Department Description	defdep secret public	2 8 2 8			
O Enforced Encryption	Greate Create						
0ffline Temporary Password							
Reports and Analysis							
Alerts							
Directory Services							
E Appliance							
System Maintenance							
System Configuration							
Client Software Client Software Upgrade Client Uninstall System Administrators Administrators Groups System Departments System Departments System Security System Sectings							
System Parameters							
🥘 Support							

To create a new department click **Create** and then provide a name, description and unique code.

**Note:** If you provide a wrong department code or none at all, the department code is considered invalid and that computer will be assigned to the default department (defdep).

dd a New Department		Show all departmen
Details		
Department Name:	Testing	
Description:	This is the Testing Department.	
Unique Code:	335efr	

In terms of terminology, a similarity between Endpoint Protector and Active Directory (or any other Director Service software) would make the Department equivalent to an Organization Unit. Of course, the Organization Unit is not identical to the Department, and again Endpoint Protector leaves the power to the actual Super Administrator to virtually link one or more Organization Units to an Endpoint Protector Department.

Each entity (e.g.: computer) must belong to a department. When deploying the Endpoint Protector Client, if a department having the given code is found, then the computer will register, and it will belong to that department.

**Example:** Computer Test-PC is registered to the department "developers". In this case, the user Test logged on that computer will be assigned to the same department together with the devices connected on the computer Test-PC.

<u>Super Administrators</u> (e.g.: root) will have access to all the main entities regardless of their departments. They will also be able to create departments, as well as Normal Administrators

or Administrators with other roles. Super Administrators will also be responsible for assigning administrators to manage departments.

A regular administrator can only manage the departments it was assigned to. It cannot see entities relating to other departments.

# 16.9.System Security

From this section, you can configure several security settings such as client uninstalling passwords, restricting access to sensitive information only to super administrators, protecting sensitive data, and enforcing all administrators' password security at the next login and password expiration options.

	ENDPOINT PROTECTOR		Get More Licenses	<u>Д</u>	Ē	Welcome ~
1	Dashboard	«E System Security				
	Device Control	Save				
P	Content Aware Protection	Data Security Privileges				
	eDiscovery	Restrict Sensitive Data Access only to super administrators:				
	Denylists and Allowlists	Save				
0	Enforced Encryption	Additional Security Password for Sensitive Data Protection				
	Offline Temporary Password	Current Password: New Password:				
	Reports and Analysis	New Password (confirm):				
	Alerts	Save				_
Ø	Directory Services	Backend Console Setup password				
	Appliance	Enable Backed Console setup password:				
Yi	System Maintenance	Password confirmation:				
Ø	System Configuration	Save				
	Client Software Client Software Upgrade	Security Password for System Administrator				
	Client Uninstall System Administrators	Enforce all administrator password security at next login:				
	Administrators Groups System Departments	Save				
	System Security System Settings	Advanced User Password Settings				
	System Licensing	Enforce Complex Password:				
@ 2004	- 2022 CoSoSur Ltd. All rights recorded				Van	rion E 0 2 0

## 16.9.1. Security Password for Uninstall Protection

From this section, you can set a password that will be required when the user performs an Endpoint Protector Client uninstall action.

**Note**: At the top of the page, you will view a message informing you if a password is set for this action.



Security Password for Uninstall Protection	
Password:	

# 16.9.2. Data Security Privileges

From this section, you can allow access to sensitive data only to super administrators.

Data Security Privileges	
Restrict Sensitive Data Access only to super administrators:	

#### 16.9.3. Additional Security Password for Sensitive Data Protection

From this section, you can set a password for sensitive data to provide additional security.

**Note**: At the top of the page, you will view a message informing you if a password is set for this action.

$\Lambda$ You do not have a security password for sensitive data defined.				
Additional Security Password for Sensitive Data Protection				
Current Password: New Password: New Password (confirm):				

#### 16.9.4. Backend Console Setup Password

This feature enhances security by allowing only authorized users to configure critical settings in the Backend Console. To activate this safeguard, navigate to **Security Configuration**, select **System Security**, and enable **Backend Console Setup Password** under the Backend Console Setup section. Save your changes to add an extra layer of security, for a more secure and controlled environment.

Backend Console Setup password			
Enable Backed Console setup password:			
Password:			
Password confirmation:			

Important: This feature is designed for Ubuntu 22. With backend password settings enabled and applied:

• On Ubuntu 14 and Ubuntu 18, pressing 'Exit' refreshes the menu without requiring the password again.

#### • On Ubuntu 22, pressing 'Exit' prompts for the password again.

**Note:** To enforce password protection, a reboot of the EPP Server appliance is required. Please be aware of this when changing passwords.

Note: ASCII character set is supported for passwords.

#### 16.9.5. Security Password for System Administrator

From this section, you can require all administrators to use their security password at the next login session.

**Note:** Once you have enabled the "Enforce all administrator password security at next login" setting, the feature cannot be disabled.

If enabled, only complex passwords can be defined, complying with the below rules:

- the minimum length is 9 characters
- must contain small and capital letters, numbers and special characters
- consecutive characters and numbers in ascending order cannot be used

**Important**: The **Enforce all administrator password security at next login** setting will have priority over **Advanced User Password Settings** as this setting also applies to non-admin, such as Reporter, Read-only users, etc.

Security Password for System Administrator	
Enforce all administrator password security at next login:	

## 16.9.6. Advanced User Password Settings

From this section, you can set advanced user password settings for all users.

Enable the Complex Password setting and then provide the following information:

- Minimum password length: 8
- Minimum password uppercase characters: 1
- Minimum password lowercase characters: 1
- Minimum password numbers: 1
- Minimum password special characters: 1
- Select if consecutive and ascending characters can be used

If you enforce a password that expires, provide the following information:

• Set **password validity** up to 30 day(s)

• Select if the new password must be different from the previous 4 entries

These are mandatory requirements when creating a new Administrator from the **System Administrators** section.

**Important**: After you provide all information for the Advanced User Password Settings section, all users are required to change their passwords at the next login, not only admins.

Enforce Complex Password:	On
Minimum password length:	8
Minimum password upper case characters:	1
Minimum password lower case characters:	1
Minimum password numbers:	1
Minimum password special characters:	1
Consecutive and ascending characters:	Consecutive and ascending characters cannot be used $\checkmark$
Password never expires:	0
Password expires:	۲
Set password validity:	30 day(s)
New password needs to be different from the previous 4:	

# 16.10. System Settings

From this section, you can manage general settings that apply to the entire system, several having already been configured from the initial Endpoint Protector Configuration Wizard.

#### 16.10.1. Department Usage

Select an option to grant access for clients based on the Department Code.

You can also view the **Default Department** code - defdep.

Note: For detailed information, refer to the System Departments chapter.

Department Usage	
Restrictive - Allow Only Clients with Department Code	
O Permissive - Allow Clients also without Department Code	
Default Department:	defdep

#### 16.10.2. Session Settings

You can modify the following session timeout settings:

• Session Timeout – set the amount of time the user is inactive until the session expires between 5 and 60 minutes

• **Timeout counter** – set the amount of time for the session timeout countdown between 5 seconds and Session Timeout minus one minute

**Example**: If you define the Session Timeout to 5 minutes and the Timeout counter to 60 seconds, then after 4 minutes of inactivity you will be notified by the pop-up window that in 60 seconds you will be logged out.

Session Settings		
Session Timeout (min):	5	0
Timeout counter (sec):	60	0
Save		

If you remain idle for the defined amount of time, then Endpoint Protector stops responding and displays a message that indicates the session will expire in the predefined countdown.

You can choose to log out or continue your session, resetting the session timeout interval.



#### 16.10.3. Endpoint Protector Rights Functionality

Set functionality rights for computer, user, or both, in which case you can prioritize user rights or computer rights.

Endpoint Protector Rights Functionality
○ Use computer rights
○ Use user rights
Use both
Priority: 🔿 User rights 💿 Computer rights

#### 16.10.4. Smart Groups

Manage settings related to Smart Groups, Default Groups for Computers or Users.

**Note**: Smart Groups are dynamic groups for which membership can be defined based on element name pattern.

- Enable Smart Groups when this setting is disabled, it will convert Smart Groups to regular groups with no entities assigned and will remove the Default Group for Computers and the Default Group for Users.
- **Enable Default Group for Computers** this will create a default group for computers containing all computers that are not part of a Smart Group.

Note: By disabling this setting, you will delete the Default Group for Computers.

• **Enable Default Group for Users** - this will create a default group for users containing all users that are not part of a Smart Group.

#### Note: By disabling this setting, you will delete the Default Group for Users.

Smart Groups		
Enable Smart Groups:	0	
Enable Default Group for Computers:		
Enable Default Group for Users:	☑ ⑦	

#### 16.10.5. Client Update Mechanism

Enable the **Client Update V2** setting to improve the client update performance and add **custom hostname** and **port**.

**Note**: The custom port you define in this section will be used when generating the client update download link instead of the default 443.

Client Update Mechanism		
Enable Client Update V2:		
Use custom hostname:		0
Use custom port:	443 ⑦	

#### 16.10.6. Custom Settings

To display more information in Endpoint Protector, enable the following:

- Show VID, PID and Serial Number for Offline Temporary Password
- Show MAC Address for Offline Temporary Password
- Show User Domain
- MAC Address Priority
- Show Universal Offline Temporary Password only to Super Admins

Custom Settings	
Show VID, PID and Serial Number for Offline Temporary Password:	
Show MAC Address For Offline Temporary Password:	
Show User Domain:	
MAC Address Priority:	
Show Universal Offline Temporary Password only to Super Admins:	

#### 16.10.7. Log Settings

Manage the following log settings:

• Set the **Maximum number of rows** in millions to export the Logs Report in .csv format.

**Note**: By setting the maximum number of rows to 1.0, you will export 1 million logs in the Logs Report .csv export as one row corresponds with one log.

When having partitions for logs on the server, make sure the dates are also selected when making the export.

 Reporting V2 – enabled by default, use this setting to modify the <u>Content Aware</u> <u>Report</u> log structure and display information in **Destination details**, Email sender, and Email subject columns.

**Note**: For Endpoint Protector Server versions older than 5.7.0.0, the Reporting V2 setting is not enabled by default.

The structure enabled by this setting will also be reflected in SIEM.

 Set the Maximum number of reported threats per event that will be displayed in the <u>Content Aware Report</u> log structure, the expanded Log Details section, on the Count column.

**Note**: You can set a number of reported threats between 100 and 1000.

Log Settings	
Maximum number of rows for CSV export (Million):	1.0
Enable Reporting V2:	Off
Max no. of reported threats per event:	1000 (?)

## 16.10.7.1. Log settings use case and terminology

Log request - sent by the Endpoint Protector Client

Event - scan result of a scanned document

Threat - matched item (e.g. US SSN)

Log request:

- event1.0 (scan result of a scanned document) => 1000 threats before splitting events
- event1.1 => 500 threats
- event2.0 => 200 threats
- up to 100 events

**Example**: Value set to 500. 3 documents containing 1,500; 600; and 200 threats are subject to Content Aware Protection policies.

The Endpoint Protector Client will send a single log request.

Log request:

- event1.0 (scan result of a scanned document) => 500 threats => splitting event
- event1.1 (scan result of a scanned document) => 500 threats => splitting event (second log entry in the reports)
- event1.2 (scan result of a scanned document) => 500 threats (third log entry in the reports)
- event2.0 (scan result of a scanned document) => 500 threats => splitting event
- event2.1 (scan result of a scanned document) => 100 threats (second log entry in the reports)
- event3.0 (scan result of a scanned document) => 200 threats
- up to 100 events

#### 16.10.8. Content Aware Protection – Ignore Thresholds

Enable the **Ignore Thresholds** setting to allow Endpoint Protector to log all sensitive information from scanned files from 1 to 100 000 threats limit set in the **Maximum number of reported threats** field, for the Content Aware Protection Block policies applied.

**Note**: This will increase the amount of logging and potentially affect client and server performance.

**Important**: The **Limit Reporting CAP** setting has priority over **Ignore Thresholds** setting. If **Limit Reporting CAP** is enabled, the reporting will stop when the threshold is reached.

The maximum number of reported threats will be automatically modified as follows:





contaiternation rotaction rightern asholas		
Ignore Thresholds:	On ⑦	
Maximum number of reported threats:	10 🕜	

Limit Reporting Content Aware Protection refers to Report Only policies.

• If enabled, the EPP client will stop reporting threats for a Report Only policy once it finds enough threats to conclude it is satisfied.

The "Content Aware Protection - Ignore Thresholds" toggle refers to Block & Report policies.

- When this toggle is On, scanning will not stop when a block verdict is determined, but will continue to report further threats found in a transfer.
- To limit the number of reported threats in this case, the value of the "*Maximum number of reported threats*" setting can be set to a value greater than zero. The set value is only indicative for the number of reported threats, the actual number reported can be slightly larger.

The '**Global/Threat Threshold**' values in CAP policies will be ignored/overridden by the setting '**Ignore Thresholds**' when the Boolean logic of the CAP policy contains at least one "**AND**" operator. A policy will be satisfied when the Boolean logic (example: see below) is met with one or more matches per identifier.

Eg. (E-mail AND SSN US) OR CC Visa

**Example** - Scenario 1:

- CAP Policy:
  - Block & Report
  - Threat Threshold: 4
  - Content Detection Rule: (E-mail AND SSN US) OR CC Visa
- Ignore Thresholds: ON
  - Maximum number of reported threats: 10
- Limit Reporting: OFF
- Test File contains
  - E-mail: 2
  - SSN US: 3
  - CC Visa: 6

#### • IBAN: 22

In our example, the policy will trigger when the policy is satisfied (Boolean logic), no matter if the '**Threat Threshold**' is met or not due to the '**AND**' operator in the policy. Depending on the data structure in our test file, EPP Client may report different 10 threats to EPP Server

- 2 E-mails + 2 SSN US + 6 CC Visa
- or 1 E-mail + 3 SSN US + 6 CC Visa
- Etc.

*Note:* Identifiers which are not part of the Boolean logic in a CAP policy will not be reported!

Generally, a CAP policy (Block & Report) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and with 1+ '**AND**' operator(s) in the policy, the scan engine will ignore the '**Threat Threshold**' setting and continue the scan until the total threat of 10 is reached, no matter if "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is being enabled or disabled.

Generally, a CAP policy (Report only) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and with 1+ '**AND**' operator(s) in the policy, the scan engine will ignore the '**Threat Threshold**' setting. If "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is <u>enabled</u>, the scan continues until the total threat of 10 from setting '**Maximum number of reported threats**' under '**Ignore Thresholds**' is reached.

Generally, a CAP policy (Report only) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and with 1+ '**AND**' operator(s) in the policy, the scan engine will ignore the '**Threat Threshold**' setting. If "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is <u>disabled</u>, the scan engine will continue the scan until the entire file is scanned, but will only report 10 threats, set with '**Maximum number of reported threats**' under '**Ignore Thresholds**'.

**Example** - Scenario 2:

- CAP Policy:
  - o Block & Report
  - Threat Threshold: 4
  - Content Detection Rule: (E-mail AND SSN US) OR CC Visa
- Ignore Thresholds: ON
  - Maximum number of reported threats: 4
- Limit Reporting: OFF
- Test File contains
  - E-mail: 2
  - SSN US: 3
  - CC Visa: 6

#### • IBAN: 22

In our example, the policy will trigger when the policy is satisfied (Boolean logic), no matter if the '**Threat Threshold**' is met or not due to the '**AND**' operator in the policy. Depending on the data structure in our test file, EPP Client may report different 4 threats to EPP Server

- 1 E-mail + 1 SSN US + 2 CC Visa
- or 2 E-mails + 1 SSN US + 1 CC Visa
- Or 1 E-mail + 2 SSN US + 1 CC Visa

Generally, a CAP policy (Block & Report) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and with 1+ '**AND**' operator(s) in the policy, the scan engine will ignore the '**Threat Threshold**' setting and continue the scan until the total threat of 4 from setting '**Maximum number of reported threats**' is reached, no matter if "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is being enabled or disabled.

Generally, a CAP policy (Report only) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and with 1+ '**AND**' operator(s) in the policy, the scan engine will ignore the '**Threat Threshold**' setting. If "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is <u>enabled</u>, the scan continues until the total threat of 4 from setting '**Maximum number of reported threats**' under '**Ignore Thresholds**' is reached.

Generally, a CAP policy (Report only) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and with 1+ '**AND**' operator(s) in the policy, the scan engine will ignore the '**Threat Threshold**' setting. If "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is <u>disabled</u>, the scan engine will continue the scan until the entire file is scanned, but will only report 4 threats, set with '**Maximum number of reported threats**' under '**Ignore Thresholds**'.

**Example** - Scenario 3:

- CAP Policy:
  - Report Only
  - Threat Threshold: 4
  - Content Detection Rule: (E-mail AND SSN US) OR CC Visa
- Ignore Thresholds: ON
  - Maximum number of reported threats: 10
- Limit Reporting: ON
- Test File contains
  - E-mail: 2
  - SSN US: 3
  - CC Visa: 6

#### • IBAN: 22

In our example, the policy will trigger when the policy is satisfied (Boolean logic), meaning that all identifiers reach a '**Threat Threshold**' of at least 1, ignoring setting '**Maximum number of reported threats**' under '**Ignore Thresholds**'. Depending on the data structure in our test file, EPP Client may report the single threats to EPP Server differently

- 1 E-mails + 1 SSN US
- or 1 CC Visa

Generally, a CAP policy (Report only) will trigger when the Boolean logic of the policy is satisfied, meaning that all identifiers reach a '**Threat Threshold**' of at least 1. The scan engine will ignore the '**Maximum number of reported threats**' under '**Ignore Thresholds**', when "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is <u>enabled</u>. Reporting stops as soon as the policy is satisfied.

Generally, a CAP policy (Report only) will trigger when the Boolean logic of the policy is satisfied, meaning that all identifiers reach a '**Threat Threshold**' of at least 1. The scan engine will consider the '**Maximum number of reported threats**' under '**Ignore Thresholds**', when "**Limit Reporting**" (under DEVICE CONTROL - Global Settings) is <u>disabled</u>. Reporting stops when 10 threats are found.

**Example** - Scenario 4:

- CAP Policy:
  - Block & Report
  - Threat Threshold: 4
  - Content Detection Rule: E-mail OR SSN US OR CC Visa
- Ignore Thresholds: ON
  - Maximum number of reported threats: 10
- Limit Reporting: OFF
- Test File contains
  - E-mail: 2
  - SSN US: 3
  - CC Visa: 6
  - IBAN: 22

In our example, the policy will trigger when the policy is satisfied (Boolean logic), meaning when at least one identifier (eg. E-mail) reaches a '**Threat Threshold**' of 4, but the scan engine will continue to scan until the total threat of 10 from setting '**Maximum number of reported threats**' under '**Ignore Thresholds**' is reached. Depending on the data structure in our test file, EPP Client may report different 10 threats to EPP Server

• 2 E-mails + 2 SSN US + 6 CC Visa

- or 1 E-mail + 3 SSN US + 6 CC Visa
- Etc.

Generally, a CAP policy (Block & Report) will trigger when the Boolean logic of the policy is satisfied. However, with '**Ignore Thresholds**' enabled and <u>no</u> '**AND**' operator(s) in the policy, the scan engine will search until the total threat of 10 from setting '**Maximum number of reported threats**' under '**Ignore Thresholds**' is reached.

#### 16.10.9. Virtual Desktop Clones

Enable the **Virtual Desktop Clones Support** setting to allow the Endpoint Protector server to identify the virtual desktop clone and interact accordingly with the Endpoint Protector client.

Virtual Desktop Clones	
Virtual Desktop Clones Support:	

## 16.10.10. Deep Packet Inspection Certificate

Disable the Deep Packet Inspection certificate download to require the Endpoint Protector clients to use the legacy certificate. You can also download the **Client CA Certificate**.

For detailed information, refer to the Deep Packet Inspection chapter.

Deep Packet Inspection Certificate	
Deep Packet Inspection Certificate download : On	
Download Client CA Certificate	

## 16.10.11. Server Certificate Stack

Use this section to regenerate a custom server certificate.

Enable the option and then provide the following information:

- FQDN (Fully Qualified Domain Name) used in certificates and Regenerate Server Certificate Stack and CA Certificate used for Deep Packet Inspection on macOS
- Country name add the first two letters of the country
- State or Province name add the state or province name
- Locality Name add locality name

Once you've set all the mandatory information, scroll to the bottom of the settings page, click **Save** and then return to the Server Certificate Stack section and click **Regenerate Server** Certificate Stack.

The Server certificate will be regenerated in a couple of minutes, and the user will be logged out.

# **Important**: Download the Deep Packet Inspection certificate again on macOS and trust it into the keychain.

**Note**: This setting is valid for macOS 12.0 or higher, but when regenerating the CA certificate, also replace it on macOS 11.0 - download certificate and add to **System** > **Keychain Access**.

**Important**: Do not use this setting if no instance of macOS 12.0 (or higher) is registered on the Endpoint Protector server.

Server Certificate Stack	
Generate Custom Server Certificate:	On
FQDN subject (subdomain.domain.com):	0
Country Name (2 letter code):	0
State or Province Name (full name):	0
Locality Name (e.g. city):	0
Regenerate Server Certificate Stack:	Regenerate

## 16.10.12. Single Sign On

Enable the **Single Sign On Login** setting to log into Endpoint Protector and then select a **Failover Login User** to use when single sign on is not functional.

Single Sign On					
Enable Single Sign On Login:					
Failover Login User:	root 🗸				

#### 16.10.13. Active Directory Authentication

Enable the **Active Directory Authentication** setting to import an Active Directory group of administrators into Endpoint Protector as Super Administrators.

**Note**: By enabling the Active Directory Authentication, you allow the administrators to use their Active Directory credentials to log into Endpoint Protector.

To import an Active Directory group of administrators, follow these steps:

- 1. Fill in the fields with the required information, considering:
  - a. In some cases, you need to add the domain in front of the **username** (domain\username)
  - Active Directory Administrators Group can be synchronized with any other groups of users except for "primary groups" which is limited from this action by Microsoft

- 2. Scroll to the bottom of the page and save the changes you will view a successful message at the top of the page;
- 3. Return to the **Active Directory Authentication** section and click **Test Connection** to confirm the process was successful;
- 4. Click Sync AD Administrators.

**Important:** Once the Active Directory Administrators Group has been defined, only users that are part of this AD group will be synced and imported as Super Administrators for Endpoint Protector. Any additional administrators (with different access control levels) can be created manually from the **System Administrators** section.

Active Directory Authentication	
Enable Active Directory Authentication:	
Connection Type:	● Standard () SSL () TLS () SSL/TLS
Domain Controller Server Name (or IP):	
Domain Controller Port:	
Domain Name:	0
Account Suffix:	0
User:	
Password:	
Active Directory Administrators Group:	0
Active Directory Operations:	Sync AD Administrators Test Connection

## 16.10.14. E-mail Server Settings

Manage Email server settings based on the email type you use - native or SMTP.

**Note**: To enable this feature, you need an Internet connection.

E-mail Server Settings						
*Note: There is no E-mail defined for your Administrator Account. You must setup the E-mail address from System Administrators > Edit info.						
E-mail Type:	Native 🗸					
Native Options:		Example for Linux sendmail: -oi (more)				
Send test email to my account:						
No-reply email address:	Custom 🗸 Default will send e-mails from norepl	y@endpointprotector.com.				
Custom no-reply e-mail address:	noreply@endpointprotector.com	The custom e-mail will be used to send the no-reply e-mails.				
*Note: Endpoint Protector Server will require a working Internet connection for this feature.						

Manage email server settings based on your email type-native or SMTP, with support for TLS 1.3.

Email Server Settings					
*Note: The test e-mail will be sent to : @cososys.com					
E-mail Type:	SMTP v				
Hostname:	smtp.gmail.com	Example: smtp.cososys.com			
SMTP Port:	465	Example: 25 (Gmail uses port 465 for SSL and 587 for TLS/STARTTLS)			
Require SMTP Authentication:					
Username:	oana.radu@cososys.com	Example: Your full email address (including @gmail.com or @your_domain.com).			
Password:		Your SMTP password.			
Encryption Type:	TLS v Example: None, SSL or TLS/STARTTLS				
Use TLS 1.3:	This method supports TLS 1.3. Note that the dec	ision about which TLS protocol gets used is decided by the corresponding E-mail server based on the list of protocols supported by both parties.			
Send test email to my account:	Send test email to my account:				
No-reply email address:	Default v Default will send e-mails from noreply	@endpointprotector.com.			
Note: Endpoint Protector Server will require a working internet connection for this feature.					

#### E-mail Server Settings

*Note: There is no E-mail defined for your Administrator Account. You must setup the E-mail address from System Administrators > Edit info.						
E-mail Type:	SMTP 🗸					
Hostname:	localhost	Example: smtp.cososys.com				
SMTP Port:	25	Example: 25 (Gmail uses port 465 for SSL and 587 for TLS/STARTTLS)				
Require SMTP Authentication:						
Username:		Example: Your full email address (including @gmail.com or @your_domain.com).				
Password:		Your SMTP password.				
Encryption Type:	None V Example: None, SSL or TLS/STARTTLS					
Send test email to my account:						
No-reply email address:	Custom V Default will send e-mails from norep	ly@endpointprotector.com.				
Custom no-reply e-mail address:	noreply@endpointprotector.com	The custom e-mail will be used to send the no-reply e-mails.				
*Note: Endpoint Protector Server will require a working Internet connection for this feature.						

#### 16.10.15. Proxy Server Settings

Configure **Proxy server** settings by managing the following:

- Proxy Type
- Authentication Type
- IP and Port
- Proxy access credentials (username/password)

Once you provide all the information, click **Test** to confirm the settings are working successfully.

**Note**: If a Proxy Server is not configured, Endpoint Protector will connect directly to liveupdate.endpointprotector.com.

Proxy Server Settings			
Ргоху Туре:	None	~	
Authentication Type:	Basic	$\sim$	
IP and Port:			Example: 192.168.0.1:8080
Username:			
Password:			
*Note: This information refers to n	etworks with a	configured Pro:	cy server to allow access to Endpoint Protector Live Update.
Test			

# 16.10.16. Main Administrator Contact Details

Edit contact details for the main administrator and then click Save to keep all modifications.

Company Name:	Itd	
Administrator Name:	name	
Administrator Phone Number:	123	
Administrator E-mail:	name@domain.com	

#### 16.10.17. EPP Server Display Name

EPP users have the capability to visually differentiate environments within the Endpoint Protector UI. This feature enables users to add custom text above the Endpoint Protector logo on the login page and alongside the logo in the Endpoint Protector header. You can customize text and upload a custom logo for further personalization. These visual cues are designed to prevent incidents like unintentional modifications on the wrong environment

:PP Server Display Name			
Enable Custom Login and Header:	On		
Login Text:	Test M.	0	
Console Header Text:	Markus' Test env	0	
Login Text Colour:	#291336	0	
Login Background Colour:	#E6E8EB	0	
Console Header Text Colour:	#291336	0	
Console Header Background Colour:	#FFFFFF	0	
Console Logo:	Choose File No file chosen	0	

# 16.11. System Licensing

From this section, you can manage and have a complete overview of the Endpoint Protector licensing status.

🕥 Dashboard	«目 System Configuration - System Licensing								
Device Control	Licensing Status								
Content Aware Protection									
eDiscovery	Server ID: 52XWEVT License Type: Subscription License End Date: 11 Nov 2021 00:00:00 Support: Standard								
Denylists and Allowlists	Modules Validity Licensed Endpoints Total Used Online								
Enforced Encryption	Deven Computers 15 4 3								
Offline Temporary Password	Lasy Look Emoted Emorphism Active Content Aware Protection for Windows Active Content Aware Protection for Wanc Active Content Aware Protection for Manc Active Content Aware Protection for Manc Active								
Reports and Analysis	Context Aware Protection for Linux Active 0								
🔼 Alerts	Obscovery for Windows     Obscovery     Obsco								
Directory Services	e Olacovery for Linux Active Tormel Server Annue								
🔢 System Maintenance	Buy Licenses Import Licenses View Licenses								
System Configuration									
Client Software Client Uninstall System Administrators Administrators Groups System Departments System Security System Security System Licensing									

**Note**: As of Endpoint Protector Version 5.9.0.0, a new subscription-based licensing system has been introduced. This change removes the licensing restrictions on Premium features, granting unrestricted access to features like Contextual Detection for all customers. This adjustment aligns with the revised licensing model, categorizing all features as standard and accessible to all users.

Endpoint Protector Licensing is based on two main aspects:

- **Modules** all modules are licensed separately (Content Aware Protection, eDiscovery, etc.) and require the Device Control module
- **Endpoints** refers to the Windows, Mac or Linux computers that need to be protected, by having the Endpoint Protector Client installed on them

Based on the selected Modules and Endpoints, a licensing file will be provided by your Endpoint Protector Representative.

The Endpoint Protector **Server ID** uniquely identifies each server and is linked to the license file. This needs to be provided to the Endpoint Protector Representative before purchasing the licenses.

The License End Date displays the Validity of the Licenses in the system.

The Support represents the level of purchased Support (Standard or Premium)

## 16.11.1. Free Trial

Endpoint Protector provides a one-time free, 30-day trial period.

By enabling the **Free Trial** option, you will automatically enable all modules for 50 computers. The endpoint licenses will be assigned on a **first-in-first-served** basis.

If one or more licensed endpoints become inactive and need to be reassigned, you can release those licenses, which will automatically be reassigned to other online computers.

## 16.11.2. Import and manage Licenses

Click **Import Licenses** to allow browsing for the license file. It contains all the relevant information in a single file (modules, number of endpoints, expiry date, type of Support, etc.).

Click View Licenses to allow the management of the endpoint licenses.

Dashboard	« System Configuration - System Li	«目 System Configuration - System Licenses								
Device Control	Module Licenses ^									
Content Aware Protection	Device Control Key:         A285-3438-0564-65CA         EarlyLook Enforced Excryption Key:         E015-5012-8354-400F									
eDiscovery	Content Aware Protection for Windows Key:	618F-25AE-E745-485C	Content Aware Protection for Mac OS X Key:	653E-07F6-A590-4032						
Denylists and Allowlists	Content Aware Protection for Linux Key:	D216-1504-2988-40C0	eDiscovery for Windows Key	4205-9087-F376-4198						
Enforced Encryption	eDiscovery for Mac OS X Key:	4EE4-2A86-E77C-4A86	eDiscovery for Linux Key:	A982-1E37-0980-4980						
Offline Temporary Password	Terminal Server Key:	0714-8E1D-9156-488C								
Reports and Analysis										
Alerts	List of Licenses			^						
Directory Services	- Filters 🗸									
Appliance	Show 10 🗸 entries	Show 10 V entries Bool R0F CSV Show/Mide Columns Relat								
🔢 System Maintenance	License Type	A License Key	Assigned Computer	Actions						
System Configuration	Endpoint License	4992-8F5E-0DC4-4420	La Martine Pro-	Ó						
Client Software	Endpoint License	7C8E-5EB4-4724-492C	Law and the second	<u> </u>						
Client Software Upgrade	Endpoint License	780E-52A7-A4A1-49BF	CONTAMA D	0						
Client Uninstall System Administrators	Endpoint License	7FE2-C532-500B-4900	LAMON.	<u> </u>						
Administrators Groups	Endpoint License	87F4-1022-00FD-47F0		<u>o</u>						
System Departments	Endpoint License	607B-48FE-F97A-4194		<u> </u>						
System Settings	Endpoint License	A0C7-98CF-43A4-46DB		<b>O</b>						
System Licensing	Endpoint License	047C-6F75-212B-456E		<u>ð</u>						
Bystem Parameters	Endpoint License	D18F-1B0C-65AF-4799		6						
	Endpoint License	8121-8801-5698-4786		6						
Support	Showing 1 to 10 of 15 entries			Previous 1 2 Next						
	Release License Automatic Release License Back									

If one or more licensed endpoints become inactive and need to be reassigned, you can release those licenses, which will automatically be reassigned to other online computers.

By using the **Automatic Release Licenses** functionality, licenses will be released automatically for endpoints that have not been seen online in a specific number of days (15 days, 30 days, 90 days, etc. or a custom value).

	_			
PROTECTOR	Autor	Automatic Release License ×		Search Q L II Welcome
Dashboard	« System Configuration -	enses will be released automatically for endovints that have not been seen online	in the number of days	
Device Control	V sele	acted below.		
Content Aware Protection	Device Control Key: Automa	atic Release License: ON O		8D85-001C-8354-40DF
aDiscovery	Content Aware Protection for Windows Key: Last on	iline: Custom 🗸	: Key:	653E-07F6-A590-4032
	Content Aware Protection for Linux Key: Custom	i value:		4205-9087-F376-4198
Denylists and Allowlists	eDiscovery for Mac OS X Key:			A9B2-1E37-0980-49B0
Enforced Encryption	Terminal Server Key:		Schedule	
Offline Temporary Password				
Reports and Analysis	List of Licenses			^
Alerts	Filters V			
Directory Services	Show 10 v entries			Excel PDF CSV Show/Hide Columns Reload
	License Type	A License Key	Assigned Computer	Actions
System Maintenance	Endpoint License	2064-9C71-E968-4560		<u>ه</u>
System Configuration	Endpoint License	880A-A740-7C7D-46AD		0
Client Software	Endpoint License	1C84-3AFD-DC56-48A1		<u>ð</u>
Client Software Upgrade	Endpoint License	1C96-2E06-CFA6-4AB3		<u>6</u>
System Administrators	Endpoint License	3D4E-5056-7ADC-4456		<u> </u>
Administrators Groups System Departments System Security	Showing 11 to 15 of 15 entries			Previous 1 2 Next
System Sectings System Licensing	Release License Automatic Release Lice	unse de la companya d		Back

To streamline license management within **System Configuration**, navigate to **System Licensing** and discover the **Serial Number** field under the **View Licenses** section. In the licensing table, you will find a **Serial Number** column. To customize your view, use the **Show/Hide Columns** button, including a checkbox for "Serial Number" (defaulted to 'show'). This resolves issues with identical computer names and facilitates more effective management via Serial Number integration, reinforced by MachineUUIDs. **Note**: If a computer's Serial Number is absent, it will be substituted with MachineUUID to ensure endpoint machine reliability, now featuring in the license page column across all OS platforms.

ľ	Device Control	« <b>=</b> S	«目 System Configuration - System Licenses							
Ð	Content Aware Protection		Liek of Lieuwee							
	eDiscovery	List o	List of Licenses ^							
	Denylists and Allowlists	Filt	- Filters v							
0	Enforced Encryption	Sho	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload							
	Offline Temporary Password		License Type	License Key	Assigned Computer	Serial Number	¢	Actions		
	Reports and Analysis		Endpoint License					0		
	Alerts		Endpoint License					0		
6	Directory Services		Endpoint License					0		
			Endpoint License					0		
	Appliance		Endpoint License					6		
¥1	System Maintenance		Endpoint License					<b>O</b>		
ø	System Configuration		Endpoint License					<b>6</b>		
	Client Software		Endpoint License					6		
	Client Software Upgrade		Endpoint License					6		
	System Administrators		Endpoint License					0		
	Administrators Groups System Departments System Security	Showin	g 1 to 10 of 50 entries			Previous	1 2	3 4 5 Next		
	System Settings System Licensing	Release License Automatic Release License Back						Back		

# 16.12. Single Sign On

Single Sign On allows you to log in the Endpoint Protector Server with Azure AD and OKTA.

Dashboard	« 🗐 Single Sign On				
Device Control	Configuration				^
Content Aware Protection	Provider:	Azure AD *			
eDiscovery					
Denylists and Allowlists	Failover Login URL				
Enforced Encryption	Failover Login URL:	Failover URL	Generate URL		
Offline Temporary Password	Display Failover Login Url:	O OFF			
Reports and Analysis	Import users as super-administrators:	ON O			
🛆 Alerts	Service Provider				
Directory Services	Use Domain instead of IP:	OFF			
🚍 Appliance	Entity ID:		Login URL:	9	
System Maintenance	Logout URL:	â			
System Configuration	Identity Provider				
Client Software Client Software Upgrade	Entity ID:	Entity ID	Login URL:	Login URL	
Client Uninstall System Administrators	Security Certificate:	Security Certificate	Logout URL:	Logout URL	
Administrators Groups System Denartments					
System Security					
System Licensing					
	Save Test			Ba	ack
System Parameters					

The Single Sign On section includes the following:

- Provider select a provider to start the configuration
- Failover Login URL enter or generate a link to a page where login locally with Endpoint Protector Super Administrator is allowed. This will bypass Azure Single Sign On login in the situation when it stops working. To view the URL, enable the **Display** Failover Login URL setting.

**Note**: You can provide Super Administrator status to all imported users by enabling the **Import users as super administrators** setting.

- Service Provider represents the identity of the Endpoint Protector Server. The information is required when configuring the Endpoint Protector application in Azure. Select if the login is based on IP or Domain, provide an Entity ID as well as Login and Logout URL.
- **Identity Provider** represents Azure side. It includes the fields where data generated from Azure should be filed so you will be able to login to Endpoint Protector Server.

## 16.12.1. Single Sign On configuration with Azure AD

To activate Single Sign on with Azure AD, follow these steps:

- 1. Go to System Configuration, System Settings, Single Sign On.
- 2. Upon the activation, select a Failover Login User from the drop-down; root user will be selected by default.

	Dashboard	« Default System Settings							
Ö	Device Control	Single Sign On	in the second						
P	Content Aware Protection	Enable Single Sing On Login:	0						
	eDiscovery	Failover Login User:	root 🗸						
	Denylists and Allowlists	Active Directory Authentication							
0	Enforced Encryption	Enable Active Directory Authentication:	0						
		Connection Type:	Standard \SSL \TLS \SSL/TLS						
	Offline Temporary Password	Domain Controller Server Name (or IP):							
		Domain Controller Port:							
	Reports and Analysis	Domain Name:	0						
	Alerts	Account Suffix:	0						
	nuu	User:							
ø	Directory Services	Password:							
	1 mallan an	Active Directory Administrators Group:							
	Арриансе	Active Directory Operations:	Sync AD Administrators Test Connection						
¥1	System Maintenance	E-mail Server Settings							
٢	System Configuration	*Note: There is no E-mail defined for your Administrator Account	You must setup the E-mail address from System Administrators > Edit info.						
	Client Software	E-mail Type:	Native V						
	Client Software Upgrade	Native Options:	Example for Linux sendmail: -ol (more)						
	Client Uninstall	Condition to my account:							
	Administrators	No contraction of the second	Tradeut as Default will cond e-mails from nonenhiftendenintertector con						
	System Departments	No-reply email aduress:	иеван • иеван ти заки етнана пот погрудениров проссолсона.						
	System Dependence *Note: Endpoint Protector Server will require a working Internet connection for this feature.								
	System Settings								
	System Licensing	Proxy Server Settings							
	System Parameters	Proxy Type:	None 🗸						
		Authentication Type:	Basic 🗸						
	Support	IP and Port:	Example: 192.168.0.1:8080						

After the above steps have been completed, a Single Sign On subsection is displayed in the System Configuration section.

**Note:** The Failover Login User you selected cannot be deleted from Endpoint Protector Server while it is selected. Single Sign On cannot be activated without a Failover Login User.

3. Select the **Provider** to view Single Sign On subsections.

Device Control	«目 Single Sign On
Content Aware Protection	Configuration
eDiscovery	Provider:  Select Provider  *
Denylists and Allowlists	
O Enforced Encryption	Back
Offline Temporary Password	
Reports and Analysis	
Alerts	
Directory Services	
E Appliance	
System Maintenance	
System Configuration	
Client Software Client Software Upgrade Client Uninstall System Administrators Administrators Groups System Departments System Security System Security System Loansing System Loansing	
System Parameters	
0 Support	

- 4. Go to portal.azure.com and login.
- 5. Go to Azure Active Directory.
- 6. Create a New Enterprise Application:
  - a. Add a New Application;
  - b. Click Create your own application;
  - c. Give the application a name;
  - d. Select Integrate any other application you don't find in the gallery;
  - e. Click Create.





	𝒫 Search resources, services, and docs (G+/)	DEFAULT DIRECTORY
Home > Default Directory >	× Browse Azure AD Gallery	Create your own application $\times$
	+ Create your own application ① Request new gallery app 🛛 🛇 Got feedback?	What's the name of your app? Input name
	You're in the new and improved app gallery experience. Click here to switch back to the legac	What are you looking to do with your application?
		Configure Application Proxy for secure remote access to an on-premises application
	Search application Single Sign-on : All User A	Register an application to integrate with Azure AD (App you're developing)
	Cloud platforms	The grate any other application you don't find in the gallery (von-gallery)
$\wedge$	Amazon Web Services (AWS) Google Clou	c
Apr 18	aws Google	
	SAP	
	SAP	Create

7. From the left-hand menu go to **Single Sign On** and then select the **SAML** method.



- To edit Basic SAML Configuration, open the Single Sign On page from the Endpoint Protector Server and copy/paste the data from the Single Sign On page on Basic SAML Configuration page.
- 9. On the **Basic SAML Configuration** page, delete the data that is by default completed for Identifier (Entity Edit).

Home $>$ Default Directory $>$ Browse Azure AD Gallery $>$ Test Application $>$	Basic SAML Configuration	
	Save	
	Identifier (Entity ID) * O The default identifier will be the audience of the SAML response for IDP-initiated SSO	
	Default           http://adapplicationregistry.onmicrosoft.com/customappsso/primary         ①         ①	
<b>Oracle</b>	Reply URL (Assertion Consumer Service URL) *  The default reply URL will be the destination in the SAML response for IDP-initiated SSO	

×

- 10. From the Single Sign On page on the Endpoint Protector Server
  - a. copy the data from Service Provider, the Entity ID field and paste it on the Identifier (Entity ID) field and on Reply URL (Assertion Consumer Service URL) from Basic SAML Configuration page and check it as Default.

	Q 斗 📷 wet	ome	■ Microsoft Azure P Search resources, services, and docs (G+/)		··· 🙆
		i.	Basic SAML Configuration		$\times$
Configuration		1	Save		
Provider:	Azure AD	1	https://102.168.15.238	Default	Te la
Failover Login URL Palover Login URL: Generate URL Display Palover Login Urt:	Mtps://192.108.15.238/ndos.phg/togic/failover_login-9306/3184844-37823818216456150		Reply URL (Assertion Consumer Service URL) * ① The default reply URL will be the destination in the SAML response for IDP-initiated SSO		
Service Provider Use Domain Instead of IP:	07		https://192.168.15.238/index.php/login	Default	Ĩ
Entity ID:	https://192.168.15.238				- 1
Logout URL:	https://192.168.15.238/index.php/logout		Sign on URL 💿		
Identity Provider			https://192.168.15.238/index.php/login		
Entity ID:	https://stx.windows.net/1def8742-8c49-497a-a304-1019540da191/ https://login.microsoftonline.com/1def8742-8c49-497a-a304-1019540da191/sami2		Relay State 💿		
Security Certificate:	MILICIDCOAdgAnillakgi(T17nHD5ALADLagi(T1Akt1TANilgikgiNG9WGMAgHADANHT1wMY DrQCpC)klishingabiz-2dq2gipttomtgbinin(22OHd0ABHT19BCZOAW42714714714-h4v) https://document.com/statistics/ada/babit/statistics/ada/babit/statistics/ada/babit/ https://document.com/statistics/ada/babit/statistics/ada/babit/ IIIIG/CACQUARAMENT/OWA/MAGA/Phily1201442014420144201442014201420142014201		Enter a relay state Logout Url   https://192.168.15.238/index.php/logout		
© 2004 - 2021 CoSoSys Ltd. All rights reserved.	Version 5.	3.0.5			

- b. Copy Login URL from Service Provider, Single Sign On page from Endpoint Protector Server and paste it on Sign on URL from Basic SAML Configuration page.
- c. Copy Logout URL from Service Provider, Single Sign On page from Endpoint Protector Server and paste it on Logout URL from Basic SAML Configuration page.

ENDPOINT	Q 4 m wetcome	■ Microsoft Azure		··· 🧧	)
Single Sign On		Basic SAML Configuration		$\times$	
Configuration	•	E Save			
Provider:	Azure AD	Identifier (Entity ID) * $\odot$ The default identifier will be the audience of the SAML response for IDP-initiated SSO			
Failover Login URL Failover Login URL: Generate URL Display Failover Login Urt:	https://192.108.15.238/rodes.phg/togin?biliver_login=7336/011adF443782/001121a4F62100         4	https://192.168.15.238	Default	[[	
Service Provider Use Domain instead of IP:		Reply URL (Assertion Consumer Service URL) * The default reply URL will be the destination in the SAML response for IDP-initiated SSO			
Entity ID:	https://192.168.15.238	http://10216815238/index.php/login	Default	1	
Legout URL:	Insps://192.168.15.238/index.php/logout         II			e	
Identity Provider Entity ID: Login URL:	https://dts.windows.net/1de/8742-8e69-4079-a304-1019560da191/ https://ogin.microsoftonine.com/1de/8742-8e69-4079-a304-1019560da191/jam/2	Sign on URL ① https://192.168.15.238/index.php/login			
Security Certificate:	MICHOCXAdgiveRisp(0T7mtGSALS0LdgtTNut17NtBjcgvisG3veRisGALS0ATTw4NY DVQOP, NewtringS3vLdg2QgtcamulgenrisCD1d0ATTN1902C020042/2712TCTM+0Vy NorthCoreCoreCoreCoreCoreCoreCoreCoreCoreCore	Relay State  Enter a relay state			
© 2004 - 2021 CoSoSys Ltd. All rights reserved.	Version 5.3.0.5	Lonout Lirk o			

	Q 🗳 🗑	Welcome	E Microsoft Azure			0
			Basic SAML Configuration			$\times$
Single Sign On						
Failover Login URL:	https://192.168.15.238/index.php/login?failover_login=93bb/31ba844a39b2d81b21a49e1b0r		E Save			
Conomito LIDI				Default	:	
			https://402.1/0.15.220		-	
Display Pallover Login Un:	044		nttps:// 192. 168. 15.236		U	
Service Provider						-1
Use Domain instead of IP:	OFF					- 1
Entity ID:	https://192.168.15.238	8	Reply URL (Assertion Consumer Service URL) * ①			- 1
Login URL:	https://192.168.15.238/index.php/login		The default reply URL will be the destination in the SAML response for IDP-initiated SSO			- 1
Legeret (IP) :	https://102.168.15.238/index.nhn/innext			Default	t	- 1
Logon, one.	endered a second s		https://192.168.15.238/index.php/login		D	tí
Identity Provider						
Entity ID:	https://sts.windows.net/1def8742-8c49-497a-a3041019540da191/					-1
Login URL:	https://login.microsoftonline.com/1def8742-8c49-4972 a304-1019540da191/saml2		Sim on UDL O			- 1
Security Certificate:	วโดกตะเลปวาแลดแม่หายรับเรายายายกับให้ที่การแกรง แตะหมดว่าแลาได้เสาดตร้องการสอดกลดด เสาะ					_
	zztC88yeCGwcg6Nth7qEVIUMutno48F1uG/zssOT50qW10cbn9xuDk8cgCvgwn/mcd0/99U18 0H1157Q6pXn6ANNkE5RB/sNub86hbLYdcoQ+k+SWCx9ICv1_va60CejzNjgM/m/BXfVan7HL a4v/5×20HNI b/suB/03w02D475/DIVYDTi/sv88PMSY2B/0/WP572FEmac01D40ABMA0CC		https://192.168.15.238/index.php/login			-1
	SqGSIb3DQEBCwUA44IBAQ86133sz01M2Ygz4qMmQ93x3(VKAKA)E+fffESOENd7sEtoTR8h6 p5FQ9OjveP1uoeeT0gFNAaScrC3nsda2HITo4AbCTe2tW4OLTvK53NU+XX75AXI2wt1vD9ULy					- 1
	gNRMG7rrPvVUwscRyZb6ArFGYHCH6F2fn4ymrH2Hda7FHzJoVP8tQ71_q7llmbFRHKItHgoRR +//TCCG01164/2yrzvxfTYTInX2/LNHW46guKeBO0TPaW/R2u5fhHzfa91_xKEq4u54IVT104 hthattleuhdtpr1febf12FDcvVB8H18rcfCbq74z2-autil1amef8ful_dbbDRsbuchCh8H27		Relay State ①			- 1
Loovet 1101 -	https://lippin.microsoftronine.com/1/def8742-8rd9-497a-a304-1019540da191/same	- 1	Enter a relay state			
endines exert		_				
Save Test	Back		Logout Url 💿			
			https://192.168.15.238/index.php/logout			
© 2004 - 2021 CoSoSys Ltd. All rights reserved.	Ve	rsion 5.3.0.5		_		_

- 11. Save the settings without testing Single Sign On yet.
- 12. Go to Step 3 from the page, SAML Signing Certificate and click Edit.

« –	Upload metadata file      Change single     sumame	sign-on mode III Test this application Soft feedback?		
Deployment Blan	emailaddress	user.mail		
Deployment Plan	name Unique User Identifier	user.userprincipalname		
Aanage	onque oser naemaner	азылары реперинанты		
Properties				
Owners	SAML Signing Certificate	0 Ec		
Roles and administrators (Preview)	Status	Active		
Users and groups	Thumbprint Expiration	4/21/2024. 8:34:21 PM		
Single sign-on	Notification Email	https://login.microsoftonline.com/1def8742-8c49		
Single agricon	App Federation Metadata Url			
Provisioning	Certificate (Base64)	Download		
Application proxy	Federation Metadata XML	Download		
Self-service				
iecurity	4 Set up Test Application			
Conditional Access	You'll need to configure the application	to link with Azure AD		
Permissions	Login LIPI			
Token encryption	Azure AD Identifier	https://iogin.microsononine.com/ 1dero/42-oc49 U		
Token encyphon	Logout UBL	https://login.microsoftenline.com/1def8742-8c49c		
Activity	View step-by-step instructions	https://ogin.microsoftonine.com/idero/42-0049		
Sign-ins				
🖬 Usage & insights	5			
Audit logs	<ul> <li>Test single sign-on with Test Applic</li> </ul>	ation		
Provisioning logs (Preview)	Test to see if single sign-on is working	. Users will need to be added to Users and groups before they can sign in.		
<ul> <li>Provisioning logs (Preview)</li> </ul>	Test			

13. Change Signing Algorithm to SHA-1 and click Save.

Test Application   SA Enterprise Application	SAML Signing Certificate         Manage the certificate used by Azure AD to sign SAML tokens issued to your app         Save       + New Certificate         T       Import Certificate				
Overview	Status	Expiration Da	te	Thumbprint	
Deployment Plan	Active	4/21/2024, 8:3	4:21 PM		
Manage	Signing Option		Sign SAML asser	rtion	~
Properties			SHA-1	~	
A Owners	Signing Algorithm		3161		
🍰 Roles and administrators (Preview	Notification Email A	ddresses			
Users and groups					Î
Single sign-on					
Provisioning					
Application proxy					
Self-service					
Security					
🍨 Conditional Access					
Permissions					
Token encryption					
Activity					
Sign-ins					
👬 Usage & insights					
Audit logs					
Provisioning logs (Preview)					
š≡ Access reviews					

#### 14. From Step 3, SAML Signing Certificate, download Certificate (Base64).

~	Upload metadata file Change single :	sign-on mode 🛛 🗮 Test this application 🔰 ♡ Got feedback?	
🖏 Overview D Deployment Plan Manage	surriame emailaddress name Unique User Identifier	user.sumanne user.mail user.userprincipalname user.userprincipalname	
Properties	3 SAML Signing Certificate		🖉 Edit
Roles and administrators (Preview)	Status	Active	
Users and groups	Expiration	4/21/2024, 8:34:21 PM	
Single sign-on	Notification Email		
Provisioning	Certificate (Base64)	https://login.microsoftonline.com/1def8742-8c49	
Application provy	Certificate (Raw)	Download	
<ul> <li>Self-service</li> </ul>	Federation Metadata XML	Download	
Security	4 Set up Test Application		
Conditional Access	You'll need to configure the applicatio	n to link with Azure AD	
Permissions	Login LIRI	https://login.microsoftonling.com/1/def8742-8c40-	
Token encryption	Azure AD Identifier	https://deianacom/line	1
	Logout URL	https://login.microsoftonline.com/1def8742-8c49	1
Activity	View step-by-step instructions		_
Sign-ins			
👔 Usage & insights	5 Test size is a second to Test Assoli		
Audit logs	Test single sign-on with Test Applica	ation	
Provisioning logs (Preview)	Test to see if single sign-on is working	Users will need to be added to Users and groups before they can	sign in.
	Test		

- 15. Open the downloaded certificate with a text editor and copy the content inside it.
- 16. Paste the content in the **Endpoint Protector Server**, **System Configuration** section, Single Sign On, Identity Provider, Security Certificate.

1	Dashboard	« 🗧 Single Sign O	n		
Ĩ	Device Control	Failover Login URL			Test Application (1).cer
P	Content Aware Protection	Failover Login URL:	Failover URL	-	BEGIN CERTIFICATE MIICBDCCAdigAwIBAg1Q1uK5G21D5YtPJn2Y+xvihjANBgkqhkiG9w0BAQsFADA0MTIwMAYDVQQD EylNaWhyb3WxZnQqXDcIundyAmVxXXJhdGVkIFNTTyBDZXJ0aWZpYZF0ZTAeFw0yMTA0M;cxMj11
7	eDiscovery	Display Failover Login Url:	OFF )		NThaFw9MDA941 cxt111NTha9D0x41 Aw6gNVBAMTKU1073 3vc29ndcB8enVy25862mR1cF82W0g UIMPTR1Kn62D1 YXRW11111 MM8bcAk1c508ABGFFAACABAWTITGC/XA6ABUT126 (XA6ABUT12710N07H Lw9D01Y278Xb40gy29Mgsck2x620A4XxCLL0khK1g4MS2x09MH4vw4MN0xp4FR5m80f1mW1k12 BscB8WH61esaAKso7279mBf22B0CHK1Kx1BWUFC7But1taBF2VFEB01as961F2V7B01as971
	Denylists and Allowlists	Service Provider			BF+iCH3GTUMPbauHLvS2dXdsL1YX6PsVdFCM+vqroZCSMnoNt/1XSkuYed075Sv0/STZWrrMyP4M jn+uuWST+4eKizuHjnY+Py3BLX7y3Bt0Z8MRo7tyFWQuAcN+Y1SUpdPF1T65Y/GMldy3uD8JprK HwChxKuYu Age-uzePz7TUTbulotTbaDaBacGscSStDidg72UTbuloh
0	Enforced Encryption	Use Domain instead of IP:	OFF		menipher i Novi Heller 1. Lecover, London Heller California California California (La California) Ruhbs (Rollweight Calufornia) Jel. Chiller (Jakki Jeri Nedviris) (Gala California) (La California) (La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Traffer War La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Traffer War La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Traffer War La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Traffer War La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Traffer War La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Traffer War La California) Brvol (Stable Studycharoy) (Gala Sczel Psilur) (La Sczel Psilur) (La Sczel Psilur) (La Sczel Psilur) Brvol (Stable Sczel Psilur) (La Sczel Ps
	Offline Temporary Password	Entity ID:	https://192.168.15.238	-9	88YTCSYT9HChCLUp+U44FpAQV6KUQ6GUB6LQ/HKy368UShr8aopJU083Gn1AUWTCETM/LBScb0 DKMPKFn6HmP41p0Nlg+ END CERTIFICATE
	Reports and Analysis	Logout URL:	https://192.168.15.238/index.php/l	3	
	Alerts				
o	Directory Services	Identity Provider Azure AD Identifier:	Entity ID		
	Appliance	Security Certificate:	MIIC8DCCAdigAwIBAgIQIuK5G2iDSYtPJ	~	
۲i	System Maintenance		n2Y+xvibjANBgkghkiG9wQBAQsFADA0M TIwMAYDYQQD EvlNaWNvb3NvZnOgOXp1cmUgRmVkZX	•	
٢	System Configuration		JhdGVkIFNTTyBDZXJ0aWZpY2F0ZTAeFw 0yMTA0MjcxMjI1		
E	System Parameters		NI harwuyNDAUMjcxMj11NI hamDQxMjA wBgNVBAMTKU1pY3Jvc29mdCBBenVyZS		
	Support	Save	Test		Back
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17. Return to **Azure SAML-based Sign On** page and reach Step 4, Set up "your application" and copy Azure AD Identifier.

 Go to Endpoint Protector Server, System Configuration, Single Sign On, Identity Provider, Azure AD Identifier and paste the data from the previous step.

ENDPOINT PROTECTOR	Q 4 <sup>0</sup> 7	Welcome ~	P Sea	arch resources, services, and docs (G+)	0		
single Sign On			SAML-bas	ed Sign-on		×	
Service Provider		-	« <b>⊼</b>	Inload metadata file 🏷 Change si	ngle sign-on mode 🔚 Test this application		
Use Domain instead of IP:	OFF )		l i t	SAME Signing Certificate	Edit	t	
Entity ID:	https://192.168.15.238	-Si		Status Thumbprint	Active FB72D910BD12F96CCDEBC24502EF43B19CE5 2B55		
Login URL:	https://192.168.15.238/index.php/login	ji ji		Expiration Notification Email	4/27/2024, 3:25:58 PM iulia@testazureqaendpointprotecto.onmicros		
	rispor), z orie z orizona og inden spring og over	~		App Federation Metadata Url Certificate (Base64)	https://login.microsoftonline.com/1de		
Identity Provider				Certificate (Raw)	Download		
Azure AD Identifier:	https://sts.windows.net/1def8742-8c49-497a-a304-1019540da191/	~		Federation Metadata XML	Download		
Login URL:	Login URL		0	Set up Test Application			
Security Certificate:	k/jkue7/M JeLCWMHciaVKAiwrU4oVrbiGb100TrMnMOVzZYUUvYXusXZTLBJEp4BiOhaSzDaZ+			You'll need to configure the application to link with Azure AD.			
	/YQgZqOD4t8			Login URL	https://login.microsoftonline.com/1de		
	B7w9/SRmBitQUWqAnxoyD66nBx2EdPI9Uu/u7fXfBMRWT2xLJ5hapbvbJ0zu48SWF v+plVGgnLtW		-	Azure AD Identifier	https://sts.windows.net/1def8742-8c4		
	88VTCsvfy6HCnClQbr+U44rpAQv6ROqoGOB6lq/HKy360OSnr8aopJOO83GniAUWT	. 11.1		Logout URL	https://login.microsoftonline.com/1de		
	DkbMPKm/6muPdipONig+			View step-by-step instructions			
Logout URL:	Logout URL		6	Test single sign-on with Test A	pplication	٦	
Save Test	Back			Test to see if single sign-on is wor before they can sign in. Test	rking. Users will need to be added to Users and groups		
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- 19. Return to Azure SAML-based Sign On page and reach Step 4, Set up "your application" and copy Login URL.
- 20. Switch to Endpoint Protector Server, System Configuration, Single Sign On, Identity Provider, Login URL and paste the data from the previous step.

	4 <del>4</del> 1	welcome ~						
Single Sign On			SAM	L-bas	ed Sign-on			×
Service Provider			~	Τu	pload metadata file 🍏 Change sing	le sian-on mode	Test this application	
Use Domain instead of IP:	OFF				SAML Signing Certificate		🖉 Edit	
Entity ID:	https://192.168.15.238	-91			Status Thumbprint	Active FB72D910BD12F960	CCDEBC24502EF43B19CE5	
Login URL:	https://192.168.15.238/index.php/login	-31			Expiration	4/27/2024, 3:25:58 F	РМ	
Logout URL:	https://192.168.15.238/index.php/logout	-31			Notification Email	iulia@testazureqaer oft.com	ndpointprotecto.onmicros	
Identity Provider Azure AD Identifier:	https://sts.windows.net/1def8742-8c49-497a-a304-1019540da191/	*			App Federation Metadata Url Certificate (Base64) Certificate (Raw) Federation Metadata XML	https://login.micro Download Download Download	ssoftonline.com/1de 🗈	
Login URL:	https://login.microsoftonline.com/1def8742-8c49-497a-a304-1019540da191/saml2	~		4	Set up Test Application			Ξ.
Security Certificate:	k/jkue?/M JeLCWHkigWKAwrU40VhjGb10QTM/nMQVz2YUUY/NusXZTLBJEp4Bl0hgSzDaZ+ /YQG2QD0H8 B7X4JSRnBIRQUWQArxx0/66nBx2EdFI9Uu/U7XBMRWT2XLJShapbvb10zu48SWF v+JPUGg1LW B8VTCsx5y461Cn2Qbr+U44rpAQv6R0qoG0B6lq/HKy3600Sn/8aopJ00B3GnIAUWT LBMZ1BscD LR6MFEXtrii5muRdL60J1g+	~	_		You'll need to configure the applica Login URL Azure AD Identifier Logout URL View step-by-step instructions	the application to link with Azure AD. https://ogin.microsoftonline.com/1de https://sts.windows.net/1def8742-8c4 https://login.microsoftonline.com/1de totoms		
Logout URL:	Logout URL			6	Test single sign-on with Test App	lication		
Save Test	Back				Test to see if single sign-on is worki before they can sign in. Test	ng. Users will need to	be added to Users and groups	
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- 21. Return to Azure SAML-based Sign On page and reach Step 4 -> Set up "your application" and copy Logout URL.
- 22. Switch to Endpoint Protector Server, System Configuration, Single Sign On, Identity Provider, Logout URL and paste the data from the previous step.
|   | Q. A <sup>9</sup> m Welcome   | A     | Search resources, services, and docs (G+/)   | 🙆                      |
|---|---|-------|--|------------------------|
| Single Sign On  |   | SAML- | ased Sign-on   | ×                      |
| Service Provider<br>Use Domain Instead of IP:<br>Entity ID:<br>Login URL:<br>Logiout URL: | DFF           https://192.168.15.238           https://192.168.15.238/index.php/login           #           https://192.168.15.238/index.php/login  | «<br> | Upload metadata file "Change single sign-on mode Test this application<br>SAWAL Signing Certificate<br>Status Active<br>Thumbprint P872D910BD12F96CCDE8C24502EF438'<br>2855<br>Expiration 4/27/2024, 32558 PM<br>Notification Email<br>Notification Email<br>Notification Email<br>Certificate (Base64) Download | Edit<br>CEdit<br>19CE5 |
| Identity Provider<br>Azure AD Identifier:<br>Login URL:<br>Security Certificate:          | https://sts.windows.net/1ddf8742-8c49-497a-a304-1019540da191/           https://sts.windows.net/1ddf8742-8c49-497a-a304-1019540da191/saml2           https://bgin.microsoftonline.com/1ddf8742-8c49-497a-a304-1019540da191/saml2           V/jkuc7/M           JeLCVMWsigsVANerU40/bjGb10QTMnMQVzZYUUyYXusXZTLBJEp480Chg5zDa2+           /YQ3zQOM8           B7w9/SkmBitQUWqArxoyG66rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUWqArxoyG66rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUWqArxoyG66rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUWqArxoyG66rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUWqArxoyG66rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUMqArxoyG66rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUMqArxoyG64rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite           B87w5/SkmBitQUMqArxoyG64rBs2EdP19UJu/V7XtBMRWT2xLJShapbxb10zu485WF           VeryDiSgnLite | -     | Certificate (Raw) Download<br>Federation Metadata XML Download<br>Set up Test Application<br>You'll need to configure the application to link with Azure AD.<br>Login URL Inttps://login.microsoftonline.com/1de<br>Azure AD Identifier Inttps://login.microsoftonline.com/1de<br>View step-by-step instructions | - 0<br>- 0<br>- 0      |
| Save Test     O2004 - 2021 CoSoSys Ltd. All rights reserved.                              | nttps://login.microsoftonine.com/1defs/42-sc49-497a-a304-1019540da191/sam2  | 5     | Test single sign-on with Test Application<br>Test to see if single sign-on is working. Users will need to be added to Users a<br>before they can sign in.<br>Test  | nd groups              |

23. Generate Failover Login URL from Endpoint Protector Server, System Configuration, Single Sign On, Failover Login URL and Save the URL.

🕥 Dashboard	« Single Sign On			
Device Control	Configuration			^
Content Aware Protection	Provider	Azure AD *		
eDiscovery				
Denylists and Allowlists	Failover Login URL			
O Enforced Encryption	Failover Login URL:	https://192.168.15.238/index.php/login?failover_log	Generate URL	
Offline Temporary Password	Display Fallover Login Uri:			
Reports and Analysis	Service Provider			
Alerts	Use Domain instead of IP:	OFF		
Directory Services	Entity ID:	https://192.168.15.238	Login URL:	https://192.168.15.238/index.php/login
	Logout URL:	https://192.168.15.238/index.php/logout 🔏		
System Maintenance	Identity Provider			
System Configuration	Azure AD Identifier:	https://sts.windows.net/1def8742-8c49-497a-a304-1(	Login URL:	https://login.microsoftonline.com/1def8742-8c49-497
System Parameters	Security Certificate:	R4uRbiQK0Uu+mGdRIduJwF6Fdcrv1ZaxFTLqahOF xMkrRgu/j7pv9f/yq1V0jmfA3cyk/jkue7/M	Logout URL:	https://login.microsoftonline.com/1def8742-8c49-497
🦲 Support		JeLCWMHcjaVKAiwrU4oVrbjGb10QTrMnMQVzZYUU yYXusXZTLB3Ep4BiOhgSzDaZ+/YQgZqOD4t8 B7w9/SRmBitQUWqAnxoyD66nBx2EdP19Uu/u7fXfB		
		MRWT2xLJShapbvbJ0zu48SWFv+pjVGgnLtW 88VTCsvfy6HCnClQbr+U44rpAQv6ROqoGOB6lq/HK y3600Snr8aopJ0083Gn/ALJWTtefM7LBscb0		
	Save	Test		Back
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- 24. Save the settings on the Single Sign On page from Endpoint Protector Server.
- 25. Switch to Azure, Select Users and groups from the left menu.

«	↑ Upload	metadata file 🏷 Change single	sign-on mode i Test this application i 🌣 Got feedback?	
Deployment Plan	3 SA	ML Signing Certificate		<b>A a u</b>
lanage			A million	Edit
Properties	Th	umbprint	Active 1BFF6839254E283B127087ABA71B3EA6506532E6	
riopentes	Ex	piration	4/21/2024, 8:34:21 PM	
Owners	No	otification Email	iulia@testazureqaendpointprotecto.onmicrosoft.com	-
Roles and administrators (Pre	Ap	p Federation Metadata Url	https://login.microsoftonline.com/1def8742-8c49	
Lisers and groups	Ce	ertificate (Base64)	Download	
Circle size on	Fe	deration Metadata XML	Download	
Single sign-on				
Provisioning				
Application proxy	Se	t up Test Application		
Self-service	Yo	u'll need to configure the applicatio	on to link with Azure AD.	
ecurity	Lo	gin URL	https://login.microsoftonline.com/1def8742-8c49	
	Az	ure AD Identifier	https://sts.windows.net/1def8742-8c49-497a-a30	]
Conditional Access	Lo	gout URL	https://login.microsoftonline.com/1def8742-8c49	]
Permissions	Vie	ew step-by-step instructions		
Token encryption				
ctivity	5 Te	st single sign-on with Test Applic	ation	
Sign-ins	То	st to see if single sign on is working	Users will need to be added to Users and groups before they can	cian in
	Te	se to see it single sign-on is working	, osers will need to be added to osers and groups before they can	agir in.

26. Go to Add user/group, none Selected, search for the Azure User, Select, Assign.

Home > Default Directory > Browse Azu Performance Application   U Enterprise Application	sers and groups			×
Overview     Deployment Plan	Add user/group     C Edit     Remove     The application will appear for assigned users v      First 100 shown to search all users & oroups ent	Dupdate Credentials     I == Columns     Colu		
Manage	Display Name	Object Type	Role assigned	
A Owners	No application assignments found			
Roles and administrators (Preview)				
Users and groups				
Provisioning				
Application proxy				
Self-service				
Security				
Sconditional Access				
2 Permissions				
Token encryption				
Activity				
Sign-ins				
📸 Usage & insights				
Audit logs				
Provisioning logs (Preview)				
3 Access reviews				

Home > Default Directory > Browse Azure AD Gallery > Test Application >	
Default Directory	*
Users and groups	
None Selected Select a role	
Default Access	
Assign	
Home > Default Directory > Browse Azure AD Gallery > Test Application >	Users and groups $\qquad \qquad \times$
Default Directory	
Users and groups	D Search
None Selected Select a role	AD DC Service Accounts
Default Access	AD AAD DC Service Accounts
	AD DC Service Accounts
	AD AAD DC Service Accounts
	AD AAD DC Service Accounts
	ADD C Service Accounts
	Selected items
	No items selected
Assign	
	Select
Home > Default Directory > Browse Azure AD Gallery > Test Application >	
Add Assignment ··· Default Directory	×
Users and groups	
1 user selected.	
Default Access	
Assign	

- 27. The User is assigned to the application and login in Endpoint Protector with Azure is now possible.
- 28. Logout from the Endpoint Protector Server and access it again. The Administrator should be redirected to <a href="http://login.microsoftonline.com/">http://login.microsoftonline.com/</a> for the Azure login process.

#### Single Sign On Configuration with OKTA

1. To activate Single Sign On, go to System Configuration, System Settings, Single Sign On.

Upon the activation, select a Failover Login User from the drop-down. Root user will be selected by default.

0	Dashboard	< El Default System Settings								
	Device Control	Sector Res Re								
	Content Aware Protection	andle sufficient								
	eDiscovery	Enable Single Sign On Login: CF Pallover Login User: noot ♥								
	Denylists and Allowlists	Active Directory Authentication								
0	Enforced Encryption	Enable Active Directory Authentication:	Enable Active Directory Authentication:							
	Office Temperature Descured	Connection Type:	Standard      SSL      TLS      SSL/TLS							
	Omine temporary Password	Domain Controller Server Name (or 1P):								
2	Reports and Analysis	Domain Name:		0						
		Account Suffix:		0						
	Alerts	User:		•						
	Directory Services	Password:								
		Active Directory Administrators Group:		0						
	Appliance	Active Directory Operations:	Sync AD Administrators	Test Connection						
YI	System Maintenance									
		E-mail Server Settings								
0	System Configuration	*Note: There is no E-mail defined for your Administrator Account	. You must setup the E-mail address from System	Administrators > Edit info.						
	Client Software	E-mail Type:	Native 🗸							
	Client Software Upgrade	Native Options:		Example for Linux sendmail: -oi (more)						
	System Administrators	Send test email to my account:								
	Administrators Groups	No-reply email address:	No-reply email address: Default 🕶 Default 🕶 Default will send e-mails from noreply@endpointprotector.com.							
	System Departments	*Note: Endpoint Protector Server will require a working Internet	connection for this feature.							
	System Settings									
	System Licensing	Proxy Server Settings								
	System Parameters	Proxy Type:	None 🗸							
		Authentication Type:	Basic 🗸							
	Support	IP and Port:		Example: 192.168.0.1:8080						
		2								
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After the above steps have been completed, a Single Sign On subsection is displayed in the System Configuration section.

2. Select the Provider in order for Single Sign On subsection to be displayed.

	Device Control	« 🔳 Single Sign On			
	Content Aware Protection	Configuration			^
	eDiscovery	Provider:	Select Provider	•	
	Denylists and Allowlists				
0	Enforced Encryption				Back
	Offline Temporary Password				
2	Reports and Analysis				
	Alerts				
Ø	Directory Services				
	Appliance				
Yi	System Maintenance				
ø	System Configuration				
	Client Software Upgrade Client Software Upgrade Client Linital System Administrators Administrators Groups System Beauthy System Beauthy System Beauthy System Clienting System Clienting System Parameters Support				
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3. Go to yourcompany.okta.com, Applications- and then Create App Integration.

da		Q Search				0 88
ashboard	~					
Directory	~	III Application	ns			Help
Applications	^	Create App Integration	Browse	App Catalog	Assign Users to App More 🔻	
Applications			-			
Self Service		Q. Search				
Security	~	STATUS		Ø	EndpointProtector	o •
Workflow	~	ACTIVE	2	6	Okta Admin Console	
Reports	~	INACTIVE	0			
Settings	~			•	Okta Browser Plugin	
				(11)	Okta Dashboard	
				â		0.1
				194 1		

4. On the following screen, select SAML 2.0 and click Next.

okta		Q Search		
Dashboard	~			
Directory	~	III Applications		Help
Applications	^	Create App Integration Browse	App Catalog Assign Users to App More *	
Applications			×	
Self Service		Create a new app integration		
Security	~	Sign-in method	<ul> <li>OIDC - OpenID Connect Token-based OAuth 2.0 authentication for Single Sign-On (SSO) through API</li> </ul>	0 +
Workflow	~	Learn More E	endpoints. Recommended if you intend to build a custom app integration with the Okta Sign-In Widget.	
Reports	~		• SAML 2.0	
Settings	~		XML-based open standard for SSO. Use if the identity Provider for your application only supports SAML.	
			<ul> <li>SWA - Secure Web Authentication</li> <li>Okta-specific SSO method. Use if your application doesn't support OIDC or</li> </ul>	
			SAML.	
			<ul> <li>API Services         Interact with Okta APIs using the scoped OAuth 2.0 access tokens for     </li> </ul>	o •
			machine-to-machine authentication.	
				,
			Cancel Next	

5. Set a Name for the Application and click Next.

ta		Q Search		0 ==
hboard	~			
irectory	~	Create SAML Integra	ation	
Applications	~	1 General Settings	2 Configure SAML	3 Feedback
curity	~			
lorkflow	~	1 General Settings		
Reports	~	App name	Application	
Settings	~	App logo (optional)		
			<b>©</b>	
		App visibility	Do not display application icon to users	
			Do not display application icon in the Okta Mobile application	pp
		Cancel		Next
		© 2021 Okta, Inc. Privacy	Version 2021.11.1 C OK14 US Cell	Status site Download Okta Plugin Feedbac

- 6. Open the **Configure SAML** tab.
- 7. Go to your Endpoint Protector Server, System Configuration, Single Sign On.

🕥 Dashboard	« 🗐 Single Sign On				
Device Control	Configuration				~
Content Aware Protection	President	Com.			
eDiscovery	Provider:	UKIN .			
Denylists and Allowlists	Failover Login URL				
Enforced Encryption	Failover Login URL:	Fallover URL	Generate URL		
Offline Temporary Password	Display Fallover Legin Url:	OFF			
Reports and Analysis	Service Provider				
Alerts	Use Domain instead of IP:	OFF			
Directory Services	Audience URI (SP Entity ID):	https://192.168.15.25	Login URL OKTA:	https://192.168.15.25/index.php/login	
🗔 Appliance	Logout URL OKTA:	https://192.168.15.25/index.php/logout			
System Maintenance	Identity Provider				
System Configuration	Identity Provider Issuer:	Identity Provider Issuer	Identity Provider Single Sign-On URL:	Identity Provider Single Sign-On URL	
Gent Software Upgrade Gent Software Upgrade Glent Uninstal System Administrators Administrators Groups System Departments System Security System Security System Security	X.589 Certificate:	X.389 Centificate	Logent URL OKTA:	Logist URL ORTA	]
Single Sign On	Save Test			B	ack

- 8. Copy the information from:
  - Audience URI (SP Entity ID) and paste it on the field with the same name from OKTA, Configure SAML.
  - Login URL OKTA and paste it on the field Single sign on URL from OKTA page, Configure SAML.

					Search	okta		Q Search	
Deshboard	< E Single Sign On					Dashboard	ř		
Device Control	Configuration					Directory	~	Create SAML Integr	ation
Content Aware Protection		(am				Applications	~	General Settings	2 Configure SAML
🔝 eDiscovery						Security	~		
Denylists and Allowlists	Failover Login URL					Workflow	~	A SAML Settings	
Enforced Encryption	Fallover Login URL:	https://192.168.15.25/index.php/login?failzver_login=16732	Generate URL			Reports	~	General	
Offline Temporary Password	Display Fallover Login Un:	(OR )				Settings	~	State in a 101 B	
Reports and Analysis	Service Provider							Single sign on ORL	https://192.168.15.25/index.php/login
🔼 Alerts	Use Domain instead of IP:	0 017							Allow this app to request other SSO URLs
Directory Services	Audience URI (SP Entity ID):	https://132.168.15.25	Login URL OKTA:	https://192.168.35.25/index.php/login	8		-	Audience URI (SP Entity ID)	
🗔 Appliance	Logout URL OKTA:	https://192.168.15.25/index.php/logout					-		RC0452/192248-35-25
1 System Maintenance	Identity Provider							Default RelayState O	
System Configuration	Identity Provider Issuer:	Identity Provider Issuer	Identity Provider Single Sign-On						If no value is set, a blank RelayState is sent
Client Software Client Software Upgrade	X.509 Certificate:		Logout URL OKTA:					Name ID format @	Unspecified v
Client Uninstall System Administrators								Application username	Okta useroame
Administrators Groups System Departments									
System Security System Settings								Update application username on	Create and update +
System Licensing Single Size On									Show Advanced Settings
System Parameters	5070	ex.							
Support								Attribute Statements (optional)	LEARN MORE
-								Name Name format	Value
	I								

9. On the OKTA page, click **Show Advanced Settings**.

ĸta			Q Search			0 ==	
lashboard	~						
Directory	~	1	Create SAML Integr	ation			
Applications	~		General Settings	2 Configur	e SAML	3 Feedback	
ecurity	×						
Workflow	~		A SAML Settings				
Reports	~		General			This form generates the XMI	L needed
Settings	~		Single sign on URL	https://192.168.15.25/index.php	p/login	for the app's SAML request.	
				Use this for Recipient URL a	nd Destination URL	Where do I find the info this needs?	s form
				<ul> <li>Allow this app to request oth</li> </ul>	ner SSO URLs	The app you're trying to inter should have its own docume	grate with intation on
			Audience URI (SP Entity ID)	https://192.168.15.25		using SAML. You'll need to fi doc, and it should outline wh	ind that hat
			Default RelayState			information you need to spec	cify in this
				If no value is set, a blank RelaySt	ate is sent	Okta Certificate	
			Name ID format	Unspecified	*	Import the Okta certificate t	to your
			Application username	Okta username	•	dentity Provider if required.     dentity Download Okta Certifi	icate
			Update application username on	Create and update	Ŧ		
					Show Advanced Setti	ings	
			Attribute Statements (optional)		LEARN M	ORE	
			Name Name format	Value			

- 10. Edit the following fields:
  - Signature Algorithm, select RSA-SHA1
  - Digest Algorithm, select SHA1

okta		Q Search		⑦ BB	
Dashboard	~		Hide Advanced Settings		
Directory	~	Response 🔘	Signed +		
Applications	~	Assertion Signature	Signed *		
Security	č	Signature Algorithm	RSA-SHA1 +		
Reports	÷	Digest Algorithm	SHA1 *		
Settings	~	Assertion Encryption	Unencrypted *		
		Enable Single Logout	Allow application to initiate Single Logout		
		Assertion Inline Hook	None (disabled) *		
		Authentication context class	PasswordProtectedTransport *		
		Honor Force Authentication	Yes *		
		SAML Issuer ID	http://www.okta.com/\${org.externalKey}		
		Attribute Statements (optional)	LEARN MORE		
		Name Name format (optional)	Value		
		Unspecified	¥		
		Add Another			

- 11. Hide Advanced Settings and click Next.
- 12. At step 3, select an answer for each question and click Finish.

okta		Q Search		0 8
Dashboard	~			
Directory	~	Create SAML Integr	ration	
Applications	~	General Settings	O Configure SAML	3 Feedback
Security	~			
Workflow	~	3 Help Okta Support understand how	w you configured this application	Who are you asking 41-8
Reports	~	Are you a customer or partner?	I'm an Okta customer adding an internal app	This form provides Okta Suppor
Settings	~		<ul> <li>I'm a software vendor. I'd like to integrate my ap Okta</li> </ul>	p with useful background information a your app. Thank you for your hel
				appreciate it.
		• The optional questions below a	assist Okta Support in understanding your app integrati	on.
		App type 🔘	This is an internal app that we have created	
		Previous		Finish
		© 2021 Okta, Inc. Privacy	Version 2021.11.1 C OK14 US Cell	Status site Download Okta Plugin Fe

13. Go to **Applications**, the Endpoint Protector application, **Assignments** and assign **People** to this application.

okta		Q Search	0 88
Dashboard	v	← Back to Applications	
Directory	*	Application	
Applications	^	Active  View Logs Monitor Imports	
Applications		General Sign On Import Assignments	
Self Service			
Security	~	Assign v Convert assignments v Q Search People	REPORTS
Workflow	~	Fi Assign to People Type	IIS Current Assignments
Reports	~	p <sub>1</sub> Assign to Groups	
Settings	~	01001110 01001110 01001000 0100100 0100110 0100111 No users found	SELF SERVICE You need to enable self service for org managed apps before you can use usef service for this app. Go to self service settings Requests Disabled Approval - Edit
		© 2021 Okta, Inc. Privacy Version 2021.11.1 C OK14 US Cell	Status site Download Okta Plugin Feedback

14. After assigning the accounts, click **Done**.

okta		Q Search		⑦ 器
Dashboard	~	Assign Application to People	×	
Directory	~			
Applications	^	Q. Search		
Applications		a	Assign	
Self Service			Assign	
Security	ř		Assign	REPORTS
Workflow	~			IIk Recent Unassignments
Reports	×		Assign	
Settings	ř		Assign	SELF SERVICE
			Assign	You need to enable self service for org managed apps
			Assign	service for this app. Go to self service settings
			, and	" Requests Disabled
			Assign	Approval -
			Assign	Edit
			Assign	
			Assign	site Download Okta Plusin Earthack
			, Joign	
			Done	

15. Go to Applications, open the created app and click Sign On, View Setup Instructions.

okta		Q Search	0 ==
Dashboard	v	← Back to Applications	
Directory	¥	Application	
Applications	^	Active View Logs Monitor Imports	
Applications		General Sign On Import Assignments	
Self Service			About
Security	~	Settings Ec	it SAML 2.0 streamlines the end user
Workflow	~		experience by not requiring the user to know their credentials. Users cannot
Reports	v	Sign on methods	edit their credentials when SAML 2.0 is configured for this application.
Settings	~	The sign-on method determines how a user signs into and manages their credentials for an application. Some sign-on methods require additional configuration in the 3 <sup>rd</sup> party application.	Additional configuration in the 3rd
		Application username is determined by the user profile mapping. Configure profile mapping	complete the integration with Okta.
		SAML 2.0	Application Username
		Default Relay State	username value when assigning the application to users.
			If you select None you will be prompted
		SAML 2.0 is not configured until you complete the setup instructions.	to enter the username manually when assigning an application with password
		View Setup Instructions	or profile push provisioning features.
		Identity Provider metadata is available if this application supports dynamic configuration.	
		Credentials Details	
		Application username format Okta username	
		Update application username on Create and update C Update No	~
		Password reveal Allow users to securely see their password (Recommended)	

- 16. From the new opened section, copy the needed information and paste it on your Endpoint Protector Server:
  - Identity Provider Single Sign-On URL to Endpoint Protector Server, System configuration, Single Sign On, Identity Provider Single Sign-on URL

- Identity Provider Issuer to Endpoint Protector Server, System configuration, Single Sign On, Identity Provider Issuer
- X.509 Certificate to Endpoint Protector Server, System configuration, Single Sign On, X.509 Certificate



17. Save the settings on your Endpoint Protector Server and click **Test** to confirm configuration settings are correct.



## 17.1. Device Types and Notifications

From this section you can view and manage device types and notifications, view and enable default notifications and their translations and define custom notifications for Content Aware Protection policies and Device Control User Remediation.

ى 🛐	ontent Aware Protection	« 🗐 System Configuration - Administrators Groups									
📰 eC	Discovery	List	List of Administrators Groups								
🛅 De	enylists and Allowlists	- Fil	Filters v								
🧿 Бл	forced Encryption		□ Select all entries								
🐻 of	fline Temporary Password	Sh	w 10 🗸 entries				Excel	PDF C	SV Show	/Hide Columns	Reload
🔁 Re	ports and Analysis										
A4	erts		Administrators Group	Description +	Role	Modified at	<ul> <li>Modif</li> <li>by</li> </ul>	ied 🔶	Created at	Created      by	Actions
Di	rectory Services	Offline Temporary     Administrators from this Group will be granted access to the Offline Temporary Password Section     Offline Temporary Password Administrator     2017-09-25     15:19:57     root     2017-09-25     15:19:57						root	:=		
E Ap	pliance	Reports and Analysis     Administrators from this Group will be granted access to the Reports and Analysis section     Reports and Analysis Administrator     2017.49.25     15 19.57     root     2017.49.25     15 19.57     root     2017.49.25     15 19.57     root							root	:=	
🚻 sy	stem Maintenance		EasyLock	Administrators from this Group will be granted access to the EasyLock section	EasyLock Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
Ø sv	stem Configuration	Administrators from this Group will be granted access to the Directory Services, Appliance and Maintenance Administrator 2017-09-25 tot 2017-09-25 tot 1519-57 root 2017-09-25 tot 1519-57 root 1519-57 root 1519-57							:=		
di di	ient Software ient Software Upgrade		Helpdesk	Administrators from this Group will be granted access to the EasyLock and Offline Temporary Password sections	Offline Temporary Password Administrator, EasyLock Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
di Sv	ient Uninstall stem Administrators		Device Control	Administrators from this Group will be granted access to the Device Control sections	Device Control Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
	Iministrators Groups stem Departments		Read Only	Administrators from this Group will only be able to view the UI. It cannot be combined with other Roles.	Read Only Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
Sy Sy	stem Security stem Settings	D	Content Aware Protection	Administrators from this Group will only be granted access to the Content Aware Protection sections.	Content Aware Protection Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
Sy	stem Licensing		eDiscovery	Administrators from this Group will only be granted access to the eDiscovery sections.	eDiscovery Administrator	2017-09-25 15:19:57	root		2017-09-25 15:19:57	root	:=
📃 અ	stem Parameters	Showi	ng 1 to 9 of 9 entries							Previous	1 Next
<u></u> 🔊 Su	innort										

## 17.1.1. List of Device Types and Notifications

On the List of Device Types and Notifications, you can view the **Device Types** available in the system along with their availability for each operating system and if those devices can be inspected by the Content Aware Protection module.

You can enable and edit the notification messages that appear on the Endpoint Protector Client from the **Actions** column.

List o	list of Device Types and Notifications									
– Filt	Filters v									
	Select all entries									
Show	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload									
	Device Type	Description	Device Control Notifications	Content Aware Protection Notifications	Custom Notifications	Actions				
	USB Storage Device	Any device that includes storage and connects to a Universal Serial Bus (USB)	Windows, Mac, Linux	Windows, Mac, Linux	Disabled	:=				
	Digital Camera	Imaging devices such as digital cameras and scanners	Windows, Linux	n/a	Disabled	:=				
	SmartPhone (USB Sync)	SmartPhones connected through USB	Windows, Linux	n/a	Disabled	:=				
	imartPhone (Windows CE) Windows CE handheld devices Windows de handheld devices E									
	SmartPhone (Symbian)	Nokia N Series handheld devices	Windows, Linux	n/a	Disabled	:=				
	Internal Card Reader	Internal memory card readers such as CF cards, SD cards or MMC cards	Windows, Mac, Linux	Windows, Mac, Linux	Disabled	:=				
	PCMCIA Device	Personal Computer Memory Card International Association devices, such as modems for notebook	Windows	n/a	Disabled	:=				
	FireWire Bus	Storage devices connected on a FireWire Bus	Windows, Mac	Windows, Mac	Disabled	:=				
	ZIP Drive floppy disk storage devices Windows Windows Disabled									
	Internal CD or DVD RW	Internal optical disk drive units such as CDs DVDs and Blu-ray drives	Windows, Mac, Linux	n/a	Disabled	:=				
Showing	g 1 to 10 of 44 entries			Previo	ous 1 2 3 4	5 Next				

## 17.1.2. List of Default Notifications

You can view and enable/disable a message from the list of **Default Notifications** or edit the custom notifications translations.

**Note**: You can enable **Custom Client Notifications** globally from **Device Control**, **Global Settings** or individually for computers or groups, from their specific Settings sections.

cutom Notifications           Security Warning           wate connected to this PC. Remove the device now or contact the PCs           An unaubtriced device vase connected to this PC. Remove the device now or contact the PCs administrator for authorization.           Associated data based           Associated data based data base	nglish	•	
Security Warning           was connected to this PC. Remove the device now or contact the PCs         An unauthorized device was connected to this PC. Remove the device now or contact the PCs administrator for authorization.           security Warning         Security Warning           tally is disabled.         The print screen functionality is disabled.           restart needed         Restart needed           ed to restart your system for the latest device rights to be applied.         St detected that you need to restart your system for the latest device rights to be applied.           tedDevice enabled         Endpoint Protector - TrustedDevice enabled           istedDevice enabled         Content Thread Device enabled           emplet do copy sensitive information. Contact the PCs administrator for more information. Text: "%2" was matched in file %3" %           istedDevice information. Contact the PCs administrator for more information. Text: "%2" was matched in file %3" %           istedDevice information. Contact the PCs administrator for more information. Text: "%2" was matched in file %3" %           istedDevice information. Contact the PCs administrator for more information. Text: "%2" was matched in file %3" %           istedDevice information. Contact the PCs administrator for more information. Text: "%2" was matched in file %3" %           istedDevice information. Contact the PCs administrator for more information. Text: "%2" was matched in file %3" %           istedDevice information. Contact the PCs administrator for more information. Text: %2" was matc		Default Message	Custom Notifications
was connected to this PC. Remove the device now or contact the PCs administrator for authorization.           security Warning           taily is disabled.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest device rights to be applied.           to restart your system for the latest field.           to restart your system for the latest device rights to restart your system for the latest device rights to field.           to restart your system for the latest field.           to restart your system for the latest field.           to restart your system for the latest device rights to restart your system for the latest device rights restart.           t		(Title) Security Warning	Security Warning
Security Warning           naily is disabled.         The print screen functionality is disabled.           Restart needed         Restart needed           ted to restart your system for the latest device rights to be applied.         Si delected that you need to restart your system for the latest device rights to be applied.           tedDevice enabled         Endpoint Protector - TrustedDevice enabled           stedDevice enabled         Content Threat Detected           negled to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3's he'd in the %3's is %4 eff.         File transfers %1. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3's he'd in the %3's is %4 eff.           victor         Independence         Independence	<b>~</b>	(Body) An unauthorized device was connected to this PC. Remove the device now or contact the PCs administrator for authorization.	An unauthorized device was connected to this PC. Remove the device now or contact the PCs administrator for authorization.
nally is disabled.       The print screen huncilonality is disabled.         extendeed       Restant needed         ted Device nabled       Sid decided that you need to restart your system for the latest device rights to be applied.         ted Device nabled       Endpoint Protector - TrustedDevice enabled         ted Device nabled       Endpoint Protector - TrustedDevice enabled         and the syst ansity of information. Contract the PCs administrator form       File Transfer Sid Coop sensitive information. Contract the PCs administrator for more information. Text: "siz was matched in file size in Sig		(Title) Security Warning	Security Warning
Restart needed           Restart needed         %1 detecded that you need to restart your system for the latest device rights to be applied.           tedDevice enabled         Endpoint Protector - TrustedDevice enabled           tedDevice enabled         Endpoint Protector - TrustedDevice enabled           tedDevice enabled         Content TrustedDevice enabled           amplet do copy sensitive information. Contact the PCs administrator form and in first 32* sins that for more information. Contact the PCs administrator for more information. Text: %2* was matched in fire %32*           teaton         Endpoint Protector - Notification           Tile transfers blocked         Endpoint Protector - Notification	2	(Body) The print screen functionality is disabled.	The print screen functionality is disabled.
ed to restart your system for the latest device rights to be applied.       Sid decled that you need to restart your system for the latest device rights to be applied.         tedDevice enabled       Endpoint Protector - TrustedDevice enabled         tedDevice enabled       Endpoint Protector - TrustedDevice enabled         emplet of copy sensitive information. Contract the PCs administrator form are information. Contract the PCs administrator for more information. Text: %2 was matched in file %3"         teamser       Endpoint Protector - Notification         "It transfers blocked       Endpoint Protector - Notification         "It transfers blocked       Endpoint Protector - Notification		(Title) Restart needed	Restart needed
tedDevice enabled         Endpoint Protector - TrustedDevice enabled           stedDevice enabled         Endpoint Protector - TrustedDevice enabled           empleted copy sensitive information. Contact the PCs administrator from more information. Contact the PCs administrator from more information. Contact the PCs administrator from more information. Contact the PCs administrator form more information. Contact the PCs administrator form more information. Text: %2 was matched in file %3 factor           Pile transfers blocked         Endpoint Protector - Notification	2	(Body) %1 detected that you need to restart your system for the latest device rights to be applied.	%1 detected that you need to restart your system for the latest device rights to be applied.
StedDevice enabled         Endpoint Protector - TrustedDevice enabled           Content Trust Detected         Content Trust Detected           emplete for copy sensitive information. Contact the PCs administrator for more information. Text: %2' was matched in file %3' as %4.         File transfer %1. You attempled to copy sensitive information. Contact the PCs administrator for more information. Text: %2' was matched in file %3'           teation         Endpoint Protector - Notification           "File transfers blocked         Transfer Limit reached. File transfers blocked		(Title) Endpoint Protector - TrustedDevice enabled	Endpoint Protector - TrustedDevice enabled
Content Threat Detected           empled to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %4 ***********************************	2	(Body) Endpoint Protector - TrustedDevice enabled	Endpoint Protector - TrustedDevice enabled
empled to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %4 for file %3 as %4 for file %3 as %4 for file %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %4 for file for file %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %4 for file for file %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %4 for file for file %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %4 for file for file %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2 was matched in file %3 to %5. You attempted to copy sensitive information. Text: %2 was matched in file %3. You attempted to copy sensitive information.		(Title) Content Threat Detected	Content Threat Detected
fication Endpoint Protector - Notification File transfers blocked Transfer Limit reached. File transfers blocked	2	(Body) File transfer %1. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: "%2' was matched in file "%3' as "%4"	File transfer %1. You attempted to copy sensitive information. Contact the PCs administrator for more information. Text: %2' was matched in file %3
File transfers blocked Transfer Limit reached. File transfers blocked		(Title) Endpoint Protector - Notification	Endpoint Protector - Notification
Brade		(Body) Transfer Limit reached. File transfers blocked	Transfer Limit reached. File transfers blocked
	2	(Title) Endpoint Protector - Notification (Body) Transfer Limit reached. File transfers blocked Sove	Endpoint Protector - Notification Transfer Limit reached. File transfers blocked
	utsch		

#### 17.1.3. Custom Content Aware Protection Notifications

On this section, you can create custom notifications and set them per Content Aware Policies so specific Content Aware Policies can have specific client notifications.

To add a new notification, follow these steps:

- 1. Click Create
- 2. Set a Template Name, Title and Body text.

Use these parameters to create your custom message:

- {fileName} the blocked/reported file name;
- {type} will be replaced with *blocked* or *reported*, depending on the policy type;
- {threatName} will be replaced with the threat name;
- {threatMatch} will be replaced with the matched text;
- 3. Click Save

**Example**: "{fileName}" was "{type}" because it contains confidential data.

Once the notification was created, you can select the custom notification from the **Notification Template** drop-down of a specific Content Aware Policy.

Custom Content Aware Protection No	tifications						^
Filters 🗸							
Show 10 🗸 entries				Excel PDF	CSV	Show/Hide Columns	Reload
Template Name	4	Title	Body	Å	Actions		
template 1					:=		
template 2					:=		
Showing 1 to 2 of 2 entries						Previous	1 Next
Create							Back
Template Name:	Template Name						
Title:	Title						
Body:	Custom notifications will accept the f "(fileName)" - this variable will be re "C:(Users)Jack(Desktop)canada.td? "(type)" - this variable will be "(threatMatch)" - this variable will be "(threatMatch)" - this variable will be Quebec, QC GLK 512") Example of a notification with just th it contains confidential data.	following variables: eplaced with the blocked/reported file name ) e replaced with threat name (eg: "address/ e replaced with threat name (eg: "address/ e replaced with the match text (eg: "410 Ru he file name and action type: "(fileName)" t	: (eg: on the policy type ca <sup>-</sup> ) se Saint-Anselme, was "(type)" because	9			

#### 17.1.4. Custom Device Control User Remediation Notifications

**Note**: This section is available only if the Device Control User Remediation setting is enabled from the <u>User Remediation section</u>.

In this section you can add, edit and delete custom notifications for Device Control User Remediation.

You can add a maximum of 100 custom notifications but you cannot delete the default entry.

To add a new custom notification, follow these steps:

- 1. Click Create
- 2. Use these parameters to create your custom message:

- {deviceName}
- {action}
- 3. Click Save

Example: USB Driver(deviceName) is blocked(action)

Once the notification was created, you can select the custom notification from the **User Remediation Notification Template** drop-down located in the **Device Control** section, **Global Setting, Users, Computers** and **Groups**.

Custom Device Control User Remediation Notifications								
Filters 🗸								
Show 10 v entries Excel PDF CSV Show/Hide Columns								
Template Name	Title 🔶	Body	Actions					
Default	{deviceName} is {action}	(deviceName) is (action), please remediate if you want access. You can override this policy by selecting a justification:	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
1	1	1	:=					
Showing 1 to 10 of 101 entries		Previous <b>1</b> 2 3 4 5	11 Next					
Create			Back					

## 17.2. Contextual Detection

From this section, you can manage the contextual detection for the entire system. If enabled, the confidential information detected by Endpoint Protector will be inspected for both content and context.

In addition to the function that detects sensitive information (e.g.: Credit Cards, IDs, Passports, Driving Licenses, etc.), the context will also be taken into consideration (e.g.: proximity to other relevant keywords, other related functions, regular expressions, etc.).

In addition to providing context to the detected sensitive information, this functionality also helps decrease false positives.

**Note:** This feature applies at a global level, for both Content Aware Protection and eDiscovery Policies. If enabled, the context detection will supersede the content only detection through the system.

Please ensure the accuracy of the rules and the relevance for your scenarios before enabling this functionality.

Once the Contextual Detection feature is enabled, it will apply at a global level, based on the rules defined in the Contextual XML (but also linked to the configured Content Aware Protection and eDiscovery policies).

There are two options to create the Contextual rules:

- creating it directly from the Endpoint Protector Server
- manually editing the Contextual XML and then uploading it to the Endpoint Protector Server

**Important:** To address conflicts between Global and per-policy Contextual Rules, EPP clients no longer receive Global Contextual Rules if at least one policy has its individual Contextual Rule set. This marks the deprecation of Global Contextual Rules, emphasizing the prioritization of individual policy configurations.

## 17.2.1. Creating the XML

This method is recommended for general use as it is the easiest method and it can cover most use cases.

Dashboard	« 🗐 System Par	ameters - Contextual	Detection						
Device Control	This feature applies at a	This feature applies at a global level, for both Content Aware Protection and eDiscovery Policies.							
Content Aware Protection									
eDiscovery	Contextual Stat	us					^		
Denylists and Allowlists	The Applicable Cont	extual XML is the latest one saved,	regardless if it is Uploaded or Genera	ited below.					
O Enforced Encryption	Contextual Detection:	ON O							
Offline Temporary Password									
Reports and Analysis	Contextual Sett	Contextual Settings ^							
Alerts	Create Uplo	Create Upload							
Directory Services	Depending on th	O Depending on the rules defined below, context will also be applied when inspecting sensitive content. Do not forget to Generate the Contextual XML after making changes to the below rulest							
E Appliance	Filters	- Filters v							
🖬 System Maintenance	T INCODE T								
System Configuration	Show 10 🗸	Show 10 v entries Excel PDF CSV Show/Hide Columns Reload							
System Parameters	Name	Description	Category	Туре	Function	Surrounding text	Actions		
Device Types and Notifications	test	test	Credit Card	Visa	Credit_Card/Visa	3000	:=		
Contextual Detection Advanced Scanning Exceptions Biobts	Showing 1 to 1 of 1 of	entries					Previous 1 Next		
Events	Add	Generate					Back		
O Support									

0	Dashboard	«	
	Device Control	This feature acceles at a plobal level, for both Content Aware Protection and eDiscovery Policies.	~
E	Content Aware Protection		~
-7	eDiscovery	Contextual Status	^
	Denylists and Allowlists	) The Applicable Contextual XML is the latest one saved, regardless if it is Uploaded or Generated below.	
0	Enforced Encryption	Contextual Detection: CN	
	Offline Temporary Password		_
<u>~</u>	Reports and Analysis	Contextual Settings	^
	Alerts	Create Upload	
<b>I</b>	Directory Services	O Depending on the rules defined below, context will also be applied when inspecting sensitive content.	
		Contextual XML sample: Endpoint Protector, Contextual Sample.xml	
Y	System Maintenance	Import Contextual XML (fie: Choose file) No file chosen	
ø	System Configuration	Save	
E	System Parameters		
	Device Types and Notifications <u>Contextual Detection</u> Advanced Scanning Exceptions Rights Events		
	Support		

For each category of Predefined Content (e.g.: Credit Cards, IDs, Passports, Driving Licenses, etc.), contextual detection can be configured by clicking on the **Add** button and selecting things like:

- **Category and Type** the content aware detection function.
- **Surrounding text** the number of characters of the search interval to determine the context.
- Related Dictionary a set of keywords related to the PII.
- **Related Regular Expression** an additional way of adding a related rule that is not among the content aware detection functions.
- Related File Type the related file type.
- Related File Size (MB) the related file size, in megabytes.
- **Minimum Matches** the minimum number of items to match to validate the detection rule.
- Unrelated Dictionary- a set of keywords not related to the PII.
- Unrelated Regular Expression an additional way of adding a non-related rule that is not among the content aware detection functions.
- **Unelated File Type** the unrelated file type.
- Unrelated File Size (MB) the unrelated file size, in megabytes.
- **Maximum Matches** the value above which the rule will not be validated (recommended value is 0).

**Important**: Do not forget to Generate the Contextual XML after creating or making changes to contextual rules!

## 17.2.2. Uploading the XML

This method is recommended for advanced Administrators as it offers extended functionalities but it also requires a deeper understanding of the XML syntax.

Advanced contextual functionalities are also available. For this method, the Contextual XML file has to be edited manually by the Administrator and then uploaded to the Endpoint Protector Server.

**Proximity, Dictionaries, Regex**, etc. have to be defined within the XML document. In addition to the functionalities described in the previous chapter, there are more complex options available like: **Confidence Level**, additional **Functions** to consider when determining the Main Function, etc.

Study the examples provided within Endpoint Protector Server to understand the syntax needed in the Contextual XML.

#### Example

```
<Rules>
<!-- SSN / Canada this is an example with multiple patterns -->
<Entity id="ssn/canada" patternsProximity="300" recommendedConfidence="75">
<Pattern confidenceLevel="75">
<Pattern confidenceLevel="75">
<Any minMatches="2">
<Any match idRef="keywords_Canada_SSN_1" />
<Antch idRef="keywords_Canada_SSN_2" />
<Antch idRef="regex_email_id" /> <!-- This is just an example -->
</Any>
<Any maxMatches="0">
<Any maxMatches="0">
</Any>
</Pattern>
</Pattern
</Patter
```

<Function id="validate\_date\_fct" name="SEARCH\_DATE\_INTRL" /> <!-- name should be the same with the one on the client -->

<Function id="func\_dlp\_is\_valid\_ssn" name="SEARCH\_SSN\_Canada" /> <!-- name
should be the same with the one on the client -->

#### Example

```
<Keyword id="keywords_Canada_SSN_1">
<Group matchStyle="word">
<Term>sin</Term>
<Term>social insurance</Term>
```

- <Term>numero d'assurance sociale</Term>
- <Term>sins</Term>
- <Term>ssn</Term>
- <Term>ssns</Term>
- <Term>social security</Term>
- <Term>numero d'assurance sociale</Term>
- <Term>national identification number</Term>
- <Term>national id</Term>
- <Term>sin#</Term>
- </Group>
- </Keyword>

```
<Keyword id="keywords_Canada_SSN_2">
```

- <Group matchStyle="word">
  - <Term>driver's license</Term>
  - <Term>drivers license</Term>
  - <Term>driver's license</Term>
  - <Term>drivers license</Term>
  - <Term>DOB</Term>
  - <Term>Birthdate</Term>
- </Group>
- </Keyword>

```
<Keyword id="keywords_exclude_Canada_SSN">
```

```
<Group matchStyle="word">
```

- <Term>random word</Term>
- </Group>
- </Keyword>

<Regex id="regex\_email\_id">[-0-9a-zA-Z.+\_]+@[-0-9a-zA-Z.+\_]+\.[a-zA-Z]{2,4}</Regex>

</Rules>

</RulePackage>

## 17.3. Advanced Scanning Detection

The Windows environment is subject to constant OS and security updates and the installed applications are in a constant loop of continuous development.

To avoid eventual changes that interfere with the Endpoint Protector Client, the ability to allow applications and processes is available.

The Advanced Scanning Exceptions feature allows applications to be excluded from scanning, for endpoints that have the Advanced Printing and MTP scanning feature enabled.

**Note**: This feature applies at a global level, for all Windows endpoints that have the Advanced Printing and MTP Scanning features enabled.

<b>()</b>	Dashboard	« System Parameters - Adv	vanced Scanning Exceptions			
[ 🚺 🕻	Device Control	Advanced Scanning Exception	IS			^
<b>1</b>	Content Aware Protection	This feature applies at a global level, for a	II Windows endpoints that have the Advanced Printing and MTP Sc	anning feature enabled.		
- 📰 •	eDiscovery					
🖂 a	Denylists and Allowlists	Application Process Name:	e.g.: AutoCAD, XenCenter	0	Whitelisted Applications	
ء 📀	Enforced Encryption				□ msedae exe	
() ()	Offline Temporary Password					
ء 🔜	Reports and Analysis					
<u> </u>	Alerts					
<b>1</b>	Directory Services				X Search	Q
	Appliance		Add to Content		Generate	
<b>11</b>	System Maintenance					
ء 💿	System Configuration					
1	System Parameters					
1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Device Types and Notifications Contextual Detection Advanced Scanning Exceptions Rights Events					
ء 🧿	Support					

## 17.4. Rights

This subsection displays a list with all access rights that can be assigned to devices.

0	Dashboard	« System Parameters - Rights	
	Device Control	Rights	*
P	Content Aware Protection		
	eDiscovery	Show 10 v entries	Excel PDF CSV Show/Hide Columns Reload
	Denylists and Allowlists	Name	Description
6	Enforced Encryption	Allow Access	Allow Access
		Allow Access and exclude from CAP Scanning	Allow Access and exclude from CAP Scanning
	Offline Temporary Password	Allow access and include Custom Class in CAP scanning	Allow access and include Custom Class in CAP scanning
	Reports and Analysis	Allow Access if TD Level 1	Allow Access if device is Trusted Device Level 1
		Allow Access if TD Level 1+	Allow Access if device is Trusted Device Level 1+
	Alerts	Allow Access if TD Level 1+, otherwise Read Only	Allow Access if TD Level 1+, otherwise Read Only
		Allow Access if TD Level 2	Allow Access if device is Trusted Device Level 2
	Directory Services	Allow Access if TD Level 3	Allow Access if device is Trusted Device Level 3
	Appliance	Allow Access if TD Level 3, otherwise Read Only	Allow Access if TD Level 3, otherwise Read Only
-		Allow Access if TD Level 4	Allow Access if device is Trusted Device Level 4
Yú	System Maintenance	Showing 1 to 10 of 15 entries	Previous 1 2 Next
Ø	System Configuration		
	System Parameters		
	Device Types and Notifications Contextual Detection Advanced Scanning Exceptions <u>Rights</u> Events		
	Support		

## 17.5.Events

In this section you can view, manage and export the events list logged by Endpoint Protector.

You can edit event name and description or enable/disable logging for specific events from the **Actions** column.

🕥 Dashboard	« System Parameters - Events					
Device Control	List of Events					^
Content Aware Protection	· · · · · · · · · · · · · · · · · · ·					
eDiscovery	Show 10 v entries			Excel	PDF CSV Show/Hide Columns	Reload
Denylists and Allowlists	Name	Description		φ.	Status	Actions
O Enforced Encryption	Connected	Device Connected			Enabled	۲
Offline Temporary Password	Disconnected	Device Disconnected		1	Enabled	۲
Departs and Analysis	File Read	File read from device		E	Enabled	0
		Event name:	File Read			
Alerts		Event description:	File read from device			
Directory Services		Logging:	2			
G Appliance		Save				
System Maintenance	File Write	File written to device			Enabled	۲
System Configuration	File Read-Write	File read and write from device		1	Enabled	۲
	File Rename	File from device renamed		E	Enabled	۲
System Parameters	File Delete	File deleted from device		1	Enabled	۲
Contextual Detection	Device TD	Trusted device connected		E	Enabled	۹
Advanced Scanning Exceptions	Deleted	File deleted from device		I	Enabled	۲
Rights Events	Enable Read-Only	Device Read-Only Enabled		E	Enabled	۲
🤘 Support	Showing 1 to 10 of 40 entries				Previous 1 2 3	4 Next
						Back

## 17.5.1. Events Types and Descriptions

This subsection displays a comprehensive list of events, and ensures that administrators can effectively manage and monitor their data protection policies. Additionally, there are more specific events, such as those related to EasyLock deployment, printer activity, user information updates, transfer limits, external repository uploads, content remediation, forced uninstall attempts, device remediation sessions, certificate management, unplanned client terminations, artifact receipts, and DPI bypassed traffic. These events provide granular insight into various system activities, ensuring that organizations can maintain robust security and compliance measures. For a detailed view of all events and their descriptions, please see the table below.

	Events Types and Descriptions
Event Name	Description
Connected	Device Connected
Disconnected	Device Disconnected
File Read	File read from device
File Write	File written to device
File Read-Write	File read and write from device
File Rename	File from device renamed
File Delete	File deleted from device
Device TD	Trusted Device <sup>™</sup> connected
Deleted	File deleted from device
Enable Read-Only	Device Read-Only Enabled
Enable if TD Level 1	Allows access when a Trusted Device™ is connected (e.g., a USB stick with EasyLock installed, which is automatically launched)
Enable if TD Level 2	Allows access when Trust Level 2 device is connected
Enable if TD Level 3	Allows access when Trust Level 3 device is connected
Enable if TD Level 4	Allows access when Trust Level 4 device is connected
AD Synchronization	AD Synchronization
Blocked	Device or port blocked
Unblocked	Device or port unblocked
Offline Temporary Password Used	Offline Temporary Password Used
User Login	User Login
File Encrypt	File encrypted using EasyLock
File Decrypt	File decrypted using EasyLock
File Encrypt (offline)	File encrypted using EasyLock when not communicating with the Endpoint Protector Server
File Decrypt (offline)	File decrypted using EasyLock when not communicating with the Endpoint Protector Server
Content Threat Detected	Content Aware Protection - Threat Detected
Content Threat Blocked	Content Aware Protection - Threat Blocked

File Copy	A file was copied to or from a removable device
Content Threat Discovered	eDiscovery - Threat Discovered
eDiscovery Client Action	eDiscovery - Action received successfully
User Logout	User Logout
Client Integrity OK	Endpoint Protector Client Integrity ok
Client Integrity Fail	Endpoint Protector Client Integrity failed
Policies Received	Endpoint Protector Client received policy successfully
Uninstall Attempt	Endpoint Protector Client uninstall attempt
EasyLock - successfully deployed	EasyLock - successfully deployed
EasyLock - deployment failed	EasyLock - deployment failed
File Printed	File sent to printer successfully
User Information Updated	User information updated successfully
Transfer Limit Reached	Transfer Limit Reached
External Repository Upload	File Shadow uploaded to Repository successfully
External Repository Upload Fail	File Shadow uploaded to Repository failed
Content Remediation Session Active	Content Aware Protection - Threat Remediated
Content Remediation Request Canceled by User	Content Aware Protection - User Remediation dialog was closed by the user
Forced Uninstall Attempt	Endpoint Protector Client forced uninstall attempt
Device Remediation Request Canceled by User	Device Control - User Remediation dialog was closed by the user
Device Remediation Session Canceled	Device Temporarily Unlock with User Remediation canceled
Device Remediation Session Active	Device Temporarily Unlocked with User Remediation
Device Remediation Session Ended	Device Temporarily Unlock with User Remediation ended
Certificate added to Keychain/store	Certificate added to Keychain/store successfully
Unplanned Client Termination	Unplanned Client Termination
Artifact Received	Artifact Received
DPI Bypassed Traffic	DPI Bypassed Traffic

## 17.6.User Remediation

User remediation is a feature that allows the end-users to apply a justification and self-remediate a policy violation or a restricted-access device.

🕥 Dashboard	«🔳 System Paramet	er - User Remediation				
Device Control	User Remediation Se	ttings				^
Content Aware Protection	Display Custom Lono:			10001	Choose Image	10
eDiscovery		_			Allowed extensions: JPG, JPEG. PNG and SVG Max size: SMB	GO
Denylists and Allowlists						
Enforced Encryption	Display Custom URL:					
Offline Temporary Password	Label for the Custom URL:			Custom URL:		
Reports and Analysis						
Alerts	Require credentials:	ON ) ()				
Directory Services	Time Interval:	15	0	Maximum Time Interval:	30	0
E Appliance						
System Maintenance	Enable User Remediation for Device Control:	ON				
System Configuration						
System Parameters	Save					
Device Types and Notifications Contextual Detection	Justifications List					^
Advanced Scanning Exceptions Rights	Filters ¥					
Events User Remediation	Shaw ( 40, 44) anhian				Every DDE COV Show	Kita Caluman Rahad
Support	Show 10 V endles				EXCEL POP COV	Relad
	Justification			Status 0	Reason is Required	Actions
	I have management approval to	o complete this action		Enabled	No	:=
	This action does not include co	nfidential information or business data		Enabled	No	:=
	Other			Enabled	Yes	:=

## 17.6.1. User Remediation Settings

In this section, you can customize the User Remediation notification, manage settings and enable User Remediation for Device Control.

- **Display Custom Logo** select a 200x200 pixels image to be displayed on the pop-up notification
- **Display Custom URL** add a **URL** to direct the end-user to a specific web page, and then add a **label** for the URL

Note: The following URL formats are accepted:

- o http://endpointprotector.com
- o https://endpointprotector.com
- o http://www.endpointprotector.com
- o https://www.endpointprotector.com
- **Require Credentials** request the end-user to use their local account or Active Directory credentials

**Note**: The following credential formats are accepted for login:

- Local user computer\_name\username (John-PC\John)
- LDAP/AD user
- o domain\_name\username (epp.com\John)

- o ip\username (192.168.14.140\John)
- **Time Interval** enter the time interval in which the end-user can remediate a Block and Remediated threat or a restricted-access device
- **Maximum Time Interval** enter the maximum time interval in which the end-user can remediate a Block and Remediated threat or restricted-access device

Note: The maximum time interval you can enter is 1440 minutes (24 hours).

• Enable User Remediation for Device Control – enable the setting to use the user remediation feature for the Device Control module.

**Important**: The Enable User Remediation for Device Control setting is disabled by default. By enabling this feature, all the settings regarding User Remediation will be applied to both Content Aware Protection and Device Control modules.

User Remediation Set	ttings				^
Display Custom Logo:	ON D		Logo:	Choose Image Allowed extensions: JPG, JPEG, PIIG and SVG Max size: SNB	LO
Display Custom URL: Label for the Custom URL:			Custom URL:		
Require credentials:	ON • •				
Time Interval:	15	0	Maximum Time Interval:	30	0
Enable User Remediation for Device Control:					
Save					

#### 17.6.2. Justifications List

In this section, you can view, add, edit, export, and remove justifications. The justification represents the reason selected by the end-user to justify the threat or device remediation.

To add a new justification, click **Add**, fill in the mandatory fields and then click **Save**. You can add up to a maximum of 10 justifications. By default, several justifications are already added, but make sure that at least one justification is enabled all the time.

To enable and enforce the end-user to view User Remediation pop-up notifications, manage the option from Device Control, Global Settings, <u>Endpoint Protector Client Settings</u>.

Justifications List				^	
Filters 🗸					
Show 10 v entries			Excel PDF CSV Show/Hide C	olumns Reload	
Justification	4	Status 🔶	Reason is Required	Actions	
I have management approval to complete	this action	Enabled	No	:=	
This action does not include confidential i	nformation or business data	Enabled	No	:=	
Other		Disabled	Yes :		
Showing 1 to 3 of 3 entries				Previous 1 Next	
Add				Back	
Justification:	Justification				
Status:	Disabled				
Reason is Required:	No ~				
	Save Cancel				

#### 17.6.3. Enabling User Remediation

To use User Remediation for Device Control, follow these steps:

 Enable the User Remediation for Device Control feature from <u>User Remediation</u> <u>Settings</u>;

User Remediation S	Settings					^
Display Custom Logo:	ON		Logo:	Choose Image Allowed extensions: JPG, JPEG, PNG and SVG Max size: SMB	LO GO	
Display Custom URL: Label for the Custom URL:			Custom URL:			
Require credentials:	ON • •					
Time Interval:	15	0	Maximum Time Interval:	30	0	
Enable User Remediation for Device Control:						

2. Customize the User Remediation notifications for Device Control.

To do so, go to the <u>Devices Types and Notifications</u>, Custom Device Control User Remediation section, click **Create**, fill in the mandatory fields and **Save**;

Show 10 🗸 entries			Exce	PDF	CSV	Show/Hide Columns	Re	teload
Template Name	Title	¢	Body				\$ A	ction
Default	{deviceName} is {action	n}	{deviceName} is {action}, please remediate if you want access. You can override thi	is policy by s	selecting a	ustification:		≡
							17	≡
							17	≡
							17	≡
howing 1 to 4 of 4 entries						Previous	1	N
Create							Bac	ck
emplate Name:		Template N	ame					
itle:		Title						
Body: Custo "{devi "{actii		Custom no "{deviceNa "{action}"	fications will accept the following variables: me}" - this variable will be replaced with the blocked/reported device name this variable will be replaced with the action type	0				

3. Enable the User Remediation Pop-up setting from the Endpoint Protector Client settings section and then select the customized notification from the User Remediation Notification Template drop-down list;

Endpoint Protector Client					
Client Mode:	Normal	· 0	Notifier language:	English	0
Policy Refresh interval (sec):	300	0	Log Size (MB):	512	0
Log Interval (min):	1	0	Shadow Size (MB):	512	0
Shadaw Tabasal (wia):			Min File Circ for Chadavaire (MD).		
Snadow Interval (min):	1		Min File Size for Shadowing (KB):	0	
Recovery Folder Retention Period (days):	1	0	Max File Size for Shadowing (KB):	512	0
			Devices Recovery Folder Max Size	5000	0
			(MB):		
	_				
Custom Client Notifications:	OFF		User edited information:	OFF	
Mandatory OTP Justification:	OFF		Optical Character Recognition:	OFF	
Extended Source Code Detection:	OFF		Limit Reporting:	OFF	
Deep Decket Technolica					
Deep Packet Inspection:	OFF BETA				
Disable Bluetooth File Transfer:	OFF				
User Remediation Pop-up:			Notifications Pop-up:		
Enfance Lines Permediation Deputy					
enrored open Kennediadon Pop up:					
		-			
User Remediation Notification Template:	Default	·			
Save					

4. Navigate to <u>Global Rights</u>, Device Types section and enable **User Remediation** for devices with limited access – devices that have full access permission cannot benefit from the User Remediation feature.

**Note**: For built-in devices, such as Webcam and Network share, the User Remediation feature is not available.

Device Types							^
These are the device type rights that apply	in general.						
	User Remediation				User Remediation		
Unknown Device		Deny Access	~	Serial ATA Controller	OFF	Allow Access	•
USB Storage Device	OFF	Deny Access	~	WiFi	OFF	Allow Access	
Internal CD or DVD RW	OFF	Deny Access	~	Bluetooth 🛧	OFF	Allow Access	•
Internal Card Reader	OFF	Deny Access	~	Bluetooth Radio	OFF	Allow Access	•
Internal Floppy Drive	OFF	Deny Access	~	Bluetooth Tablet	OFF	Allow Access	•
Local Printers		Deny Access	~	Bluetooth Keyboard	OFF	Allow Access	•
Network Printers	OFF	Allow Access	~	Bluetooth Other	OFF	Deny Access	•
Windows Portable Device (Media Transfer	OFF	Deny Access	~	Bluetooth Mouse	OFF	Allow Access	•
Protocol)				Bluetooth Smartphone	OFF	Allow Access	•
Digital Camera	OFF	Deny Access	~	Bluetooth Headphones	OFF	Deny Access	•
BlackBerry		Deny Access	~	FireWire Bus	OFF	Deny Access	•
Mobile Phones (Sony Ericsson, etc.)	OFF	Deny Access	~	Serial Port	OFF	Deny Access	•
SmartPhone (USB Sync)	OFF	Deny Access	~	PCMCIA Device	OFF	Deny Access	•
SmartPhone (Windows CE)	OFF	Deny Access	~	Card Reader Device (MTD)	OFF	Deny Access	•
SmartPhone (Symbian)	OFF	Deny Access	~	Card Reader Device (SCSI)	OFF	Deny Access	•
Webcam		Deny Access	~	ZIP Drive	OFF	Deny Access	•
iPhone	OFF	Deny Access	~	Teensy Board	OFF	Deny Access	
iPad	OFF	Deny Access	~	Thunderbolt	OFF	Deny Access	
iPod	OFF	Deny Access	~	Network Share		Allow Access	•
				Infrared Dongle	OFF	Deny Access	•
				Parallel Port (LPT)	OFF	Deny Access	

## 17.6.4. User Remediation Usage

To remediate the device, the end-user has to follow these steps:

- 1. Open the Endpoint Protector notifier and go to the Device Control tab;
- 2. Select the device for remediation and click Self Remediate;

Endpo	int Protector Client Version 5.7.4.	6					- 🗆 ×
	ENDPOINT   by CoSoSys						
	Device Control	Content Aware Protection	Settings				
					Search		Q
	Device			VID	PID	Serial Number	Device Code
	Microsoft / Samsung ML-21	60 Series @ MacBook Air		0	0	C166BD61	2C943A4C
٠	(Standard keyboards) / Star	ndard PS/2 Keyboard	0	0	ACPI-VEN	7FD4C949	
	(Standard keyboards) / HID	Keyboard Device		0	0	HID-Convert	4E3E99EE
	(Standard keyboards) / HID	Keyboard Device	DE	0	HID-{00001	0800CFE3	
	(Standard keyboards) / HID	Keyboard Device	DE	0	HID-{00001	D49EC26C	
٠	Qualcomm Atheros Commu	nications / Qualcomm QCA61x4A Blue	tooth	CF3	E007	N/A	0E1FE5B6
	Realtek / Realtek PCIe GbE		10EC	8168	01000006	11A2308F	
٠	Qualcomm Communication	s Inc. / Qualcomm QCA61x4A 802.11ad	: Wireless Adapter	168C	3E	1VR164W2	16F91069
٠	Microsoft / Bluetooth Device	e (Personal Area Network)		0	0	Net_6_193	0AEAA88D
٠	Microdia / Integrated Webca	am		C45	671B	0000	2CEBFFAD
6	FLASH / USB_DISK			1221	3234	3727055A4	DE8900E9
To a	authorize a blocked device, ple	ase Request Access from your adminis	strator.		Request Acc	ess	Self Remediate
Lastser	rver connection: 2022-05-18 11:	06:25					

- 3. On the Self Remediate section:
  - a. select a justification from the drop-down list
  - b. add a reason for the justification (if required)
  - c. navigate to the custom URL situated under the logo
  - d. add your credentials if the **Require Credentials** setting was enabled (click the username icon to refresh your current username)
    - i. Note: When reopening the dialog, if a different username was used for authentication, EPP Notifier will automatically switch back to the username of the currently logged-in user.
    - ii. Note: Usernames are not case sensitive.
  - e. add the **number of minutes** needed to remediate the device (you can hover over the default number to view the maximum time interval)
  - f. click **Authorize**

**Note**: You can manage more settings for the Self Remediate feature from System Preferences and <u>User Remediation</u> sections.

Endpoint Protector Client Version 5.7.5.0				— 🗆	×			
ENDPOINT PROTECTOR by CoSoSys								
Device Control	Content Aware Protection	Settings						
Self Remediate				~	-			
	FLASH / USB_DISK is blo FLASH / USB_DISK is blo	ocked cked, please remediate if you want a	ccess. You can override this policy by selecting a justific	ation:				
	I have management approval to complete this action Include justification reasons. (Optional)							
Example								
			B Password					
Override the security policy for 15 minutes. Cancel Authorize								
L Last server connection: 2022-05-24 10:11	0:58							

To stop the device remediation session at any time during the time interval, select the device from the **Device Control** tab in the **Endpoint Protector** notifier and then click **Revoke Remediation**.

ENDPOINT       by CoSoSys         Device Control       Content Aware Protection       Settings         Device       VID         Microsoft / Samsung ML-2160 Series @ MacBook Air       0         (Standard keyboards) / Standard PS/2 Keyboard       0         (Standard keyboards) / HID Keyboard Device       0	P 0 0 0 0 0 0	Search ND	Serial Number C166BD61 ACPI-VEN HID-Convert	Device Code           2C943A4C           7FD4C949           4E3E99EE
Device Control       Content Aware Protection       Settings         Device       VID         Microsoft / Samsung ML-2160 Series @ MacBook Air       0         (Standard keyboards) / Standard PS/2 Keyboard       0         (Standard keyboards) / HID Keyboard Device       0	P 0 0 0 0 0	Search ND	Serial Number C166BD61 ACPI-VEN HID-Convert	Device Code 2C943A4C 7FD4C949 4E3E99EE
Device     VID       Microsoft / Samsung ML-2160 Series @ MacBook Air     0       (Standard keyboards) / Standard PS/2 Keyboard     0       (Standard keyboards) / HID Keyboard Device     0	0 0 0 0 0	Search PID	Serial Number C166BD61 ACPI-VEN HID-Convert	Device Code           2C943A4C           7FD4C949           4E3E99EE
Device     VID       Microsoft / Samsung ML-2160 Series @ MacBook Air     0       (Standard keyboards) / Standard PS/2 Keyboard     0       (Standard keyboards) / HID Keyboard Device     0	P 0 0 0 0		Serial Number C166BD61 ACPI-VEN HID-Convert	Device Code 2C943A4C 7FD4C949 4E3E99EE
Microsoft / Samsung ML-2160 Series @ MacBook Air       0         (Standard keyboards) / Standard PS/2 Keyboard       0         (Standard keyboards) / HID Keyboard Device       0	0 0 0 0		C166BD61 ACPI-VEN HID-Convert	2C943A4C 7FD4C949 4E3E99EE
(Standard keyboards) / Standard PS/2 Keyboard 0     (Standard keyboards) / HID Keyboard Device 0	0		ACPI-VEN HID-Convert	7FD4C949 4E3E99EE
(Standard keyboards) / HID Keyboard Device     0	0		HID-Convert	4E3E99EE
	0			
<ul> <li>(Standard keyboards) / HID Keyboard Device</li> <li>DE</li> </ul>			HID-{00001	0800CFE3
(Standard keyboards) / HID Keyboard Device DE	0		HID-{00001	D49EC26C
Qualcomm Atheros Communications / Qualcomm QCA61x4A Bluetooth     CF3	3 Е	007	N/A	0E1FE5B6
Realtek / Realtek PCIe GbE Family Controller	EC 8	168	010000006	11A2308F
Qualcomm Communications Inc. / Qualcomm QCA61x4A 802.11ac Wireless Adapter 168	IC 31	E	1VR164W2	16F91069
Microsoft / Bluetooth Device (Personal Area Network) 0	0		Net_6_193	0AEAA88D
Microdia / Integrated Webcam     C45	5 6	71B	0000	2CEBFFAD
FLASH / USB_DISK 122	1 3	234	3727055A4	DE8900E9
To authorize a blocked device, please Request Access from your administrator.		Request Acces	s	Revoke Remediation
ast server connection: 2022-05-18 12:09:50				

# 18. Endpoint Protector Agent

The Endpoint Protector Agent enforces the Rights and Settings received from the Endpoint Protector Server on the protected endpoints (Windows, Mac, and Linux).

You can download the Endpoint Protector Agent directly from the Endpoint Protector UI. For detailed information about downloading the Endpoint Protector Agent, refer to the Client Software chapter.

**Note**: You can use tools like **Active Directory** or **JAMF** to deploy the Endpoint Protector Agent in large networks.

**Important:** Starting with Endpoint Protector Server version 5.8.0.0, you benefit from an additional security measure that safeguards the Agent integrity, available from Device Control, Global Settings page, the Tamper Mode setting - to prevent the Endpoint Protector Agent from unauthorized termination or alteration.

## 18.1. Agent Installation

For **Windows** and **Mac**, your input in installing the Endpoint Protector Agent is minimal. The Installation folder and Server information are already preconfigured, and downloadable from the Endpoint Protector Server.

For Linux installation instructions, read the **readmeLinux.txt** file available under the **Read this before installing** link.

**Note**: You can also install the Agent from a repository for Endpoint Protector Linux Agents starting with version 1.4.0.4., as described in the chapter below.

The following are several examples of supported distributions:

- Ubuntu 14.04+
- Mint 18.X
- CentOS 7.x
- Fedora 29
- OpenSUSE 42.2 and 42.3



## 18.1.1. Installation on macOS with Deep Packet Inspection and VPN Traffic Intercept active

- 1. Open the Endpoint Protector Server.
- 2. Go to the **System configuration** section, select **Client Software** and then download the macOS Endpoint Protector Agent.
- 3. Decompress the downloaded file.

Dashboard		« Endpoint Protector Appl	ance Configuration	1				
Device Contr	rol	Endpoint Protector Client Installation	_		_			
Content Awa	re Protection	The Enricoint Protector Client can be instal	ed on-					
eDiscovery		The English Protector Carlie can be insta						
Denylists and	d Allowlists	Windows		Mac		Linux		
O Enforced Enc	cryption	Windows 10 Windows 8		macOS 11.0 (Big Sur) macOS 10.15 (Catalina)		Debian Ubuntu		
Offline Temp	orary Password	Windows 7 Windows Vata Windows Vata Windows Server 2003/2008/2012/2016/2019		maco5 0.0.1 (Calmin a) maco5 10.14 (Mg/mc) maco5 10.13 (Hg/m Sierra) maco5 10.12 (Sierra) Maco5 X 10.11 (El Captan)		Linux Mint		
Reports and	Analysis					CentOS Fedora		
Alerts				MacOS X 10.10 (rosemite) MacOS X 10.9 (Mavericks) MacOS X 10.8 (Mountain Lion)		SUSE Enterprise		
Directory Ser	rvices	<ul> <li>Windows (32bit version) - Version</li> </ul>	: 5.3.5.4	MacOS X 10.7 (Lion)		Clients for Linux distributions are only available on request due to		
E Appliance		Windows (64bit version) - Version: 5.3.5.4		macOS - Version: 2.2.1.1		different kernel versions and dependencies. Submit Request for Endpoint Protector Client for Linux.		
System Main	tenance							
System Confi	iguration	Note: To install the client software, please Endpoint Protector Server IP:	provide the Endpoint Protector 192.168.15.238	Server IP, Port and Department Code.				
Client Softwar	<u>re</u>	Endpoint Protector Server Port:	443					
Client Softwar	re Upgrade	Department Code:	defdep					
System Admir	nistrators		Preserve Server Setting	ngs on all download pages				
Administrators System Depar	s Groups rtments	🗶 Download						
System Securi	ity							
System Settin System Licens	igs sing	Endpoint Protector Client for Windows can For more information, please refer to Endp	be deployed over Active Directo oint Protector - User Guide	ory. E.				
5ystem Parar	meters							
Support								

- 4. Open the **.pkg** file and follow the installation steps and give the requested permissions.
- After the installation was successfully made, go to System Preferences, Security & Privacy, Privacy tab, Full Disk Access, search for Endpoint Protector Client, select the checkbox and then save the changes.



6. Open the Endpoint Protector Server and activate **Deep Packet Inspection** from the Device Control subsection: **Users/Computer/Group/Global Settings**, **Manage Settings**, **Endpoint Protector Client**, **Deep Packet Inspection**.

0	Dashboard	« 🗧 Device Control - Global Settings								
<b>R</b>	Device Control	Endpoint Protector Client						^		
	Dashboard Devices Computers Users	Client Mode:	Normal	•	0	Notifier language:	English	• 0		
	Groups Global Rights	Policy Refresh interval (sec):	15		0	Log Size (MB):	1024	0		
	<u>Global Settings</u> File Allowlist	Log Interval (min):	1		0	Shadow Size (MB):	102400	6		
	Custom Classes	Shadow Interval (min):	1		0	Min File Size for Shadowing (KB):	0	0		
P	Content Aware Protection	Recovery Folder Retention Period (days):	3		0	Max File Size for Shadowing (KB):	10485760	0		
	eDiscovery					Devices Recovery Folder Max Size (MB):	5000	0		
	Denylists and Allowlists	Custom Client Notifications:	OFF			User edited information:	OFF			
0	Enforced Encryption	Mandalana OTD Sustifications				Ontinal Character Basemilian				
	Offline Temporary Password	Extended Source Code Detection:	OFF			Stop at Threat Threshold:	OPE			
2	Reports and Analysis									
	Alerts	Deep Packet Inspection:				Block unsecured connection:	OFF			
Ø	Directory Services	Intercept VPN Traffic:	OFF							
	Appliance									
Yi	System Maintenance	Disable Bluetooth File Transfer:	OFF							
Ø	System Configuration									
	System Parameters	Notifications Pop-up:	OFF							
	Support	Save								
		File Tracing and Shadowing						^		

7. Go to the System Configuration section, System Settings, Deep Packet Inspection Certificate, and download the CA Certificate.

1	Dashboard	« Default System Settings		
	Device Control	Custom Settings		
	Content Aware Protection	Show VID, PID and Serial Number for Offline Temporary Password	: 0	
	eDiscovery	Show MAC Address For Offline Temporary Password:		
	Denylists and Allowlists	MAC Address Priority:	0	
0	Enforced Encryption	Virtual Desktop Clones		
	Offline Temporary Password	Virtual Desktop Clones Support:	0	
	Reports and Analysis	Deep Packet Inspection Certificate		
	Alerts	Deep Packet Inspection Certificate download :	On	
o	Directory Services	Download Client CA Certificate		
	Appliance	Single Sign On		
41	System Maintenance	Enable Single Sign On Login:		
		Active Directory Authentication		
అ	System Configuration	Enable Active Directory Authentication:	0	
	Client Software	Connection Type:	● Standard ○ SSL ○ TLS ○ SSL/TLS	
	Client Uninstall	Domain Controller Server Name (or IP):		
	System Administrators	Domain Controller Port:		
	Administrators Groups	Domain Name:		0
	System Departments	Account Suffix:		0
	System Security	User:		
	System Settings System Licensing	Password:		
		Active Directory Administrators Group:		0
	System Parameters	Active Directory Operations:	Sync AD Administrators	Test Connection
	Support	E.msil Conver Cattinge		

8. Open the Keychain Access application from your macOS and select System.

•••	Keychain Access	Cí (i) Q Search						
Default Keychains	All Items Passwords Secure Notes	My Certificates Keys C	ertificates					
<ul> <li>d' login</li> <li>€ iCloud</li> <li>System Keychains</li> <li>A System</li> </ul>	QA INT CoSoSys         Intermediate certificate authority         Expires: Friday, 17 May 2030 at 11:24:50 Eastern European Summer Time         This certificate is marked as trusted for all users							
System Roots	Name	~ Kind	Expires	Keychain				
	🔀 QA INT CoSoSys	certificate	17 May 2030 at 11:24:50	System				
	🔀 QA CA CoSoSys	certificate	14 May 2040 at 11:19:17	System				
	com.apple.systemdefault	certificate	24 Aug 2039 at 13:14:25	System				
	com.apple.kerberos.kdc	certificate	24 Aug 2039 at 13:14:26	System				
	> 🔀 18D0BF9B-7F00B094-0F774D09	9E9DA certificate	10 May 2025 at 10:00:41	System				

- 9. Decompress the downloaded **ClientCerts** file.
- 10. Select cacert.pem file and drag and drop it on Keychain Access, System

Clien Back/Forward	ClientCerts 2 ClientCerts 2 Date Modified Today at 17:29 Today at 17:29	i≣ ≎ ≫ View Size	Q Search + Ki 1 KB co 1 KB co	<ul> <li>Default Keychains</li> <li>login</li> <li>iCloud</li> <li>System Keychains</li> </ul>	Keychain Acc All Items Passw Certificate State Exp O	ess ords Secure Notes DOBF9B-7F00-48D live: CoSoSys JSS Bu ires: Saturday, 10 May 2 his certificate is market	i Q My Certificate D-B094-0F uilt-in Certifica 2025 at 10:00:4 d as trusted for	Search s Keys Certificates 774D09E9DA te Authority 41 Eastern European Summer Time r all users
Cacert.pem	Today at 17:29		5 KB pi	System Roots	Name	~ SoSys	Kind	Expires 17 May 2030 at 11:24:50
					QA CA CoS     com.apple.     com.apple.     192.168.15.     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X	oSys systemdefault kerberos.kdc 238 7F94-0F774D09E9DA	certificate certificate certificate certificate certificate	14 May 2040 at 11:19:17 24 Aug 2039 at 13:14:25 24 Aug 2039 at 13:14:26 4 Oct 2029 at 12:19:01 10 May 2025 at 10:00:41

11. Double-click the **x** on the newly added certificate and on the **Trust** section, select **Always Trust**.

	Keychain Access 🗹 🤄 🔍 Search	
Default Keychains	All Items Passwords Secure Notes My Certificates Keys Certificates	
icloud     System Keychains     System	Certificate       192.168.15.238         Root certificate authority       Expires: Thursday, 4 October 2029 at 12:19:01 Eastern European Summer Time         Image: Comparison of the state of	
System Roots	9 9 192.168.15.238	Keychain
	192.168.15.238         Root certificate authority         Expires: Thursday, 4 October 2029 at 12:19:01 Eastern European Summer Time         Trust         V Trust         When using this certificate is not trusted         Y         Secure Sockets Layer (SSL)         Always Trust         Secure Sockets Layer (SSL)         Secure Mail (S/MIME)         Always Trust         Secure Mail (S/MIME)         Secure Mail (S/MIME)         Always Trust         Secure Mail (S/MIME)         Always Trust         Secure Mail (S/MIME)         Always Trust         Code Signing         Always Trust         Code Signing         Always Trust         X.509 Basic Policy         Always Trust         Subject Name         Country or Region         Country Cluj         Organisation         Coonty Cluj         Organisation         Coonty Cluj	System System System System System

- 12. Save the changes.
- 13. Activate Intercept VPN Traffic.
- 14. Select one option for **EPP behavior when network extension is disabled**.
- **Temporary Disable Deep Packet Inspection** this option will temporary disable Deep Packet Inspection
- Block Internet Access this option will end the Internet connection until the end-user approves the Endpoint Protector Proxy Configuration once the computer is rebooted.

0	Dashboard	« Device Control - Global Settings					
ē	Device Control	Endpoint Protector Client					
	Dashboard Devices Computers Users	Client Mode:	Normal +	0	Notifier language:	English +	0
	Groups Global Rights Clobal Satisare	Policy Refresh interval (sec):	300	0	Log Size (MB):	512	0
	File Allowlist	Log Interval (min):	30	0	Shadow Size (MB):	512	0
	Custom Classes	Shadow Interval (min):	60	0	Min File Size for Shadowing (KB):	0	0
2	Content Aware Protection	Recovery Folder Retention Period (days):	3	8	Max File Size for Shadowing (KB):	512	0
7	eDiscovery				Devices Recovery Folder Max Size (MB):	500	0
	Denylists and Allowlists						
0	Enforced Encryption	Custom Client Notifications:	OFF		User edited information:	OFF	
	Offline Temporary Password	Mandatory OTP Justification:	OFF		Optical Character Recognition:	OFF	
	Reports and Analysis	Extended Source Code Detection:	OFF		Stop at Threat Threshold:	OFF	
	Alerts	Deep Packet Inspection:			Block upper and connection:		
ø	Directory Services	Deep Packet inspection.	ON BEIA		block unsecured connection.	O OM-	
	Appliance	Intercept VPN Traffic:	ON O		EPP behaviour when network extension is disabled:	Block Internet access ~	
Yi	System Maintenance	Disable Bluetooth File Transfer:	OFF				
Ø	System Configuration						

- 15. Save the changes.
- 16. The following pop-up will be displayed informing the end-user that a System Extension is blocked and needs to be allowed.



17. Go to **System Preferences**, **Security and Privacy**, select the **General** tab and allow the Endpoint Protector Client Extension.

• • • < > IIII Security & Privacy	Search				
General FileVault   Firewall   Privacy					
A login password has been set for this user Change Password					
Require password 5 minutes 🔅 after sleep or screen saver begins					
Show a message when the screen is locked Set Lock Message					
✓ Disable automatic login					
Allow apps downloaded from: App Store App Store and identified developers					
System software from application "EndpointProtectorClient" was blocked from loading.	Allow				
Click the lock to prevent further changes.	Advanced ?				

18. Allow the Endpoint Protector Proxy Configuration from the pop-up window.



At this point, the macOS Endpoint Protector Client installation is completed.

**Note**: If EPPNotifier is not visible or notifications do not display after the installation or upgrade of the EPP client on macOS, please resolve this issue by restarting your machine.

In situations where the EPP client is installed and then uninstalled on macOS, you may still see EPPNotifier in the Notification settings. To remove it from the list, simply right-click and select "Reset notifications."

#### 18.1.2. Debian based distributions

While the installation process is similar, each distribution and version have their own particularities.

The following are several examples of supported distributions:

- Ubuntu 14.04
- Ubuntu 15.04
- Ubuntu 16.04
- Ubuntu 17.04
- Ubuntu 18.04
- Ubuntu 19.04
- Ubuntu 20.04
- Ubuntu 21.04
- Ubuntu 21.10
- Ubuntu 22.04
- LinuxMint
- Debian

sudo apt update
sudo apt upgrade
wget
https://download.endpointp
ame]

cd /Download

# unpack the archive

tar xvf [Filename.tar.xz]

# edit the options.ini file to contain the correct server address

cd [Extracted filename]

gedit options.ini

# run the installation script

bash install.sh

#### 18.1.3. RedHat based distributions

While the installation process is similar, each distribution and version have their own particularities.

rotector.com/linux\_agent/EPPClient\_v[X.X.X.X]/[Filen

The following are several examples of supported distributions:

- CentOS 7.x
- RedHat 8.x
- Fedora 32, 33, 34, 35
- AWS Linux 2

#### sudo yum update

#### sudo yum upgrade

wget

https://download.endpointprotector.com/linux\_agent/EPPClient\_v[X.X.X.X]/[Filen ame]

cd /Download

# unpack the archive

tar xvf [Filename.tar.xz]

# edit the options.ini file to contain the correct server address

cd [Extracted filename]

gedit options.ini

# run the installation script

#### sudo bash install.sh

- OpenSuse 15.2
- SUSE 15+
- SLED Linux Enterprise Server 15 SP1
- SLED Linux Enterprise Server 15 SP2
- SLED Linux Enterprise Server 15 SP3

sudo zypper update sudo zypper upgrade wget https://download.endpointprotector.com/linux\_agent/EPPClient\_v[X.X.X.X]/[Filen ame] cd /Download # unpack the archive tar xvf [Filename.tar.xz] # edit the options.ini file to contain the correct server address cd [Extracted filename] gedit options.ini # run the installation script sudo bash install.sh

#### 4. Setting the Endpoint Protector Server IP

For all RedHat-based distributions, you need to follow an additional step after executing the above commands in order to set the Endpoint Protector Server IP.

Based on each distribution, follow the corresponding method:

Method 1

1. Define the Endpoint Protector Server IP EPPCLIENT\_WS\_SERVER=[**the desired IP**] export EPPCLIENT\_WS\_SERVER

2. Install the Endpoint Protector Client

- for SUSE and openSUSE: #zypper install epp-client
- for CentOS, RedHat, Fedora: #yum install epp-client

#### Method 2

- 1. Install the Endpoint Protector Client
- for SUSE and openSUSE: #zypper install epp-client
- for CentOS, RedHat, Fedora: #yum install epp-client

2. Run bash file to define the Endpoint Protector Server IP

bash '/opt/cososys/share/apps/epp-client/scripts/set\_epp\_client\_server.sh'

# 19. Endpoint ProtectorServer – Client communication

This section details the communication between the Endpoint Protector Server and Client encrypted by the TLS protocol.

- On Endpoint Protector Server version 5.7.0.0 TLSv1.2 is enabled by default and TLSv1.1 could be enabled upon request (backwards compatibility to older agents/appliances) in 5.7.0.0.
- On Endpoint Protector Server version 5.8.0.0 TLSv1.2 and TLSv1.3 will be enabled by default. TLSv1.1 could be enabled upon request (backwards compatibility to older agents/appliances) in 5.8.0.0.

TLS 1.3 Compatibility						
os	Older version	Newer version	Endpoint Protector Client Particularities			
Windows	Windows 7, XP, and versions older than Windows 10	✔ Windows 10, version 1903 and higher	Uses Windows' built-in TLS encryption engine (Schannel).			
macOS	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>Image: A start of the start of</li></ul>	Uses a custom bundled OpenSSL package shipped with the Endpoint Protector Client.			
Linux	×	✓	Uses Linux's built-in OpenSSL engine.			

## 19.1.Endpoint Protector Client

### 19.2. Endpoint Protector Server

TLS 1.3 Compatibility

Older than 5.7.0.0	
	For <b>in-place upgrades via Live Update</b> , the Linux OS libraries must be upgraded by Customer Support



For additional support resources, please visit our <u>website</u> where you can read manuals, FAQs, watch videos and tutorials, direct e-mail support and much more.

Our Technical Support Department can also be contacted from Endpoint Protector, the Support section by using the **Open Support Ticket** option. One of our team members will contact you in the shortest time possible.

🕥 Dashboard	«🔳 Support - Contact Support			
Device Control	Open Support Ticket		^	
Content Aware Protection	To open a support ticket please access this link.	Resources		
eDiscovery	A collection of resources regarding Endpoint Protector is available. Below you can find direct links to User Manuals. Additional information like FAQe, Data Sheets or Tutorial & Videos are available			
Denylists and Allowlists	dractly on our websta.			
Enforced Encryption		Endpoint Protector User Manual	•	
Offline Temporary Password		AD Deployment Guide	<u>ا</u>	
Reports and Analysis				
Alerts				
Directory Services				
E Appliance				
System Maintenance				
System Configuration				
System Parameters				
🦲 Support				
Contact Support				



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Each Endpoint Protector Server has the default SSH Protocol (22) open for Support Interventions and there is one (1) System Account enabled (epproot) protected with a password. The SSH Service can be disabled at customers' request.

Security safeguards, by their nature, are capable of circumvention. CoSoSys cannot, and does not, guarantee that data or devices will not be accessed by unauthorized persons, and CoSoSys disclaims any warranties to that effect to the fullest extent permitted by law.

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