ENDPOINT PROTECTOR

User Manual for Version 4.4.0.8

User Manual

COSOSYS

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1. Introduction

Portable storage devices such as USB flash drives, external HDDs, digital cameras and MP3 players/iPods are virtually everywhere and are connected to a Windows PC, Macintosh or Linux computer via plug and play within seconds.

With virtually every PC, MAC or Linux workstation having easily accessible USB, FireWire and other ports, the theft of data or accidental loss of data is for individuals a mere child's play.

Data theft or data loss or infecting companies' computers or network through a simple connection is easy and doesn't take more than a minute. Network administrators have little chance to prevent this from happening or to catch the responsible user(s). Now Endpoint Protector, through its Device Control module, helps companies to stop these threats.

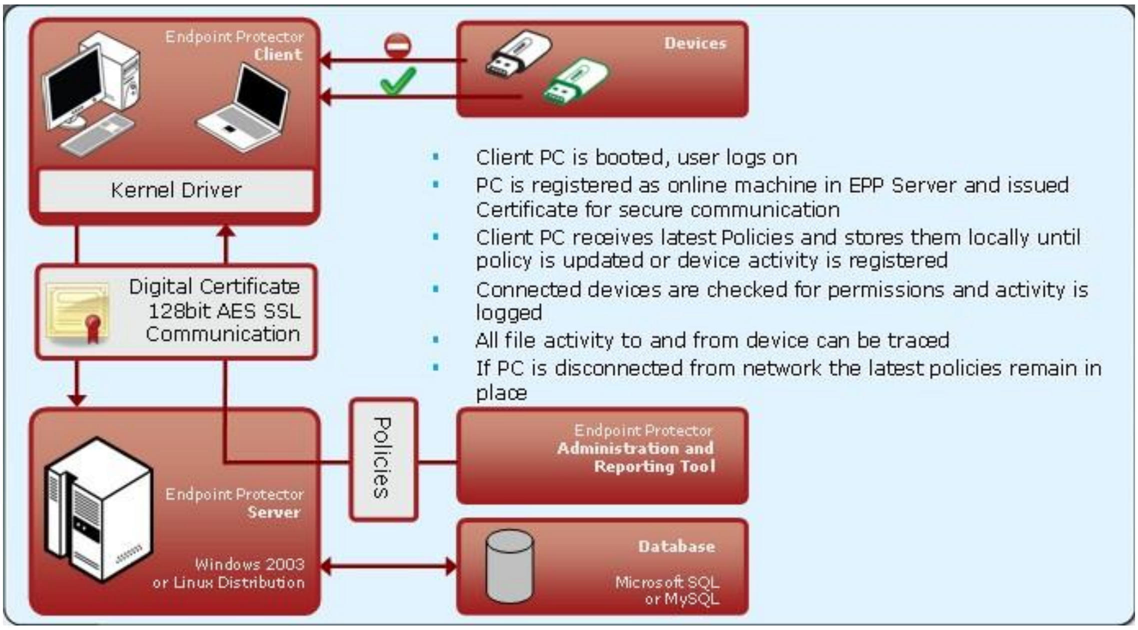
As a complete Data Loss Prevention solution, Endpoint Protector not only controls all device activity at endpoints, but monitors and scans all possible exit points for sensitive content detection. Its second module, Content Aware Protection, ensures that no critical business data leaves the internal network either by being copied on devices or sent via the Internet without authorization, reporting all sensitive data incidents.

1.1. What is Endpoint Protector?

Endpoint Protector will help you secure your PCs endpoints within your network and screen all possible exit ways for sensitive content detection. You will be able to restrict the use of both internal and external devices which can be used for data storage and transfer and to manage PC, MAC and Linux ports.

Endpoint Protector, through its two main modules, Device Control and Content Aware Protection gives network administrators the control needed to keep network endpoints safe:

- Control use of all USB and other storage devices
- Tracking of what data is saved to storage devices
- Tracking of what data is copied from and to storage devices
- Scanning of all data transfers for sensitive content detection
- Complete monitoring of all possible data exit points
- Authorize the use of USB storage devices
- Securing data on USB storage devices
- Powerful reporting tool and audit



- Client PC is booted, user logs on
- PC is registered as online machine in EPP Server and issued Certificate for secure communication
- Client PC receives latest Policies and stores them locally until policy is updated or device activity is registered
- Connected devices are checked for permissions and activity is logged
- All file activity to and from device can be traced
- If PC is disconnected from network the latest policies remain in place

The modular and intuitive Web-based administration interface has been designed to offer fast access to controlling computer, devices and user behavior in a large network. It also offers several ways to track any kind of portable device related activity registered on the system. A detailed report including timestamps, file names, action(s) taken, logged user, etc. allows for pin-pointing malicious behavior and users.

The system's design also allows the CoSoSys team to perform easy customizations and extensions requested by clients. Better automation and express reports can be developed accordingly to customer demands. In the same time this structure is easy to update and maintain, making the usability even greater.

Endpoint Protector is the only solution that gives companies of any size the ability to let users take advantage of the increasingly important functionality of USB and other ports without losing control over data and compliance.

This endpoint security device control solution is designed to control usage of all portable storage and to keep track of what data users are taking from and to their work computers on any kind of portable storage devices.

Furthermore, Endpoint Protector enables network administrators to monitor and report what data is introduced into the corporate network from a portable storage device such as prohibited materials (MP3s, movies or games) or harmful data like a virus that could jeopardize the networks integrity.

As not all portable storage devices are used with the intent to harm the company, many legitimate reasons commonly justify the need of such devices to increase network users' productivity. Thus, Endpoint Protector allows authorized use of certain device types or specific devices such as the companies' own USB Flash Drives to handle and transfer confidential data.

To ensure the protection of data carried by users on authorized devices, the Endpoint Protector administrator can allows users to copy work data only to a password protected / encrypted area of an authorized device, a so called "Trusted Device". In this way confidential corporate data is protected in case of hardware loss.

Endpoint Protector creates an audit trail that shows the use and activity of portable storage devices in corporate networks. Thus, administrators have the possibility to trace and track file transfers through endpoints and then use the audit trail as legal evidence for data theft. For more details on Endpoint Protector, please see the Data Sheet available on the company's website.

http://www.EndpointProtector.com

1.2. Main Features

Your confidential sensitive data is only as safe as your endpoints are. Designed for medium and large enterprises, Endpoint Protector offers powerful features in order to control monitor and enforce network and endpoint security.

Endpoint Security for Windows, Macintosh and Linux Workstations, Notebooks and Netbooks.

Endpoint Protectors full feature set is available for Windows. A reduced feature set is available for Macintosh (OS X) and Linux - Ubuntu 10.04 LTS and openSUSE 11.4.

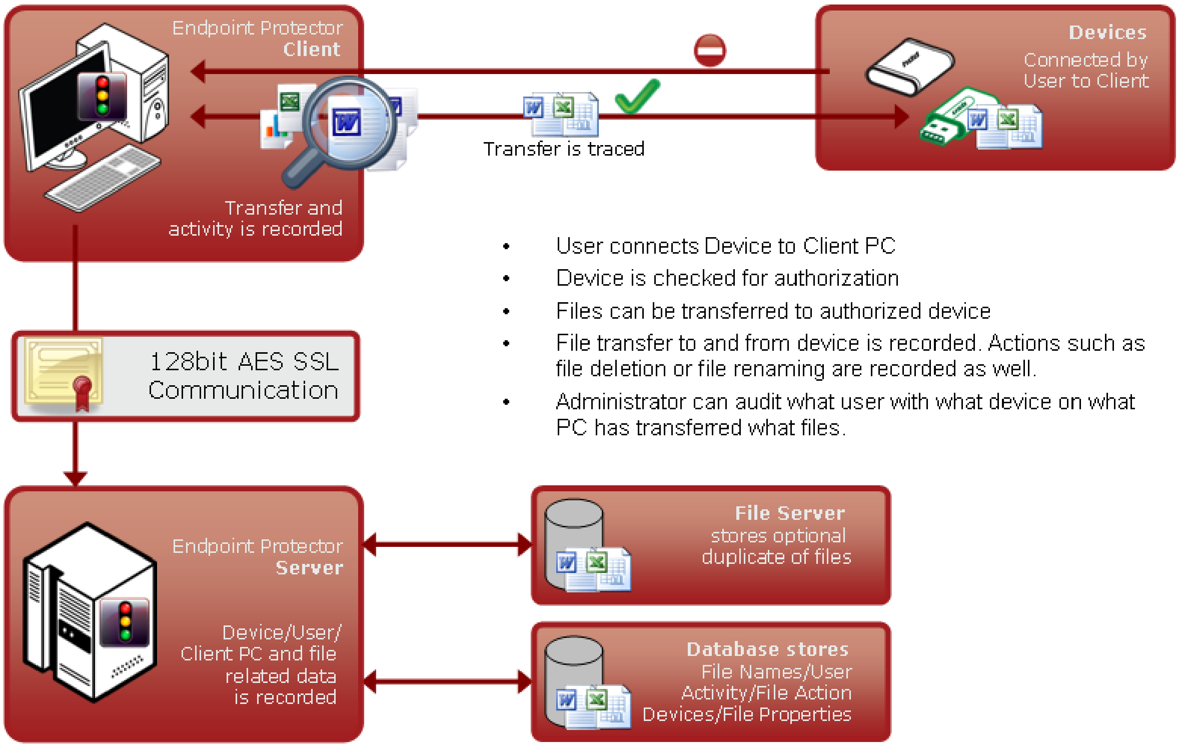
Protects PCs from threats posed by removable portable storage and endpoint devices like USB Flash Drives, MP3 Players, iPods, digital cameras and other devices that could be intentionally or accidentally used to leak, steal, lose, virus or malware infect your data. Even self-executing devices like a USB Flash Drive with a CD-ROM autorun feature such as U3 Drives will not be accessible and thereby pose no threats.

1.2.1. Centralized web based Device Management / Dashboard

Network administrators have the ability to centrally manage and authorize the use of devices. The Endpoint Protector 4 Dashboard is designed to meet the needs of both management and security staff and offer access to real-time information, charts and reports about organization wide controlled device and data transfer activity. All in an integrated single view and Web based Administration and Reporting Tool.

1.2.2. Control your data flow: File Tracing / File Shadowing

This thorough record of information streams at the network’s endpoints is supporting audits of data flow and controlling the impact of data leakage. The File Tracing feature will track all data that was copied to and from prior authorized portable storage devices. The File Shadowing feature saves a copy of all, even deleted files that were used in connection with controlled devices on a network storage server.



- User connects Device to Client PC
- Device is checked for authorization
- Files can be transferred to authorized device
- File transfer to and from device is recorded. Actions such as file deletion or file renaming are recorded as well.
- Administrator can audit what user with what device on what PC has transferred what files.

1.2.3. Audit Trail – Device Activity Logging

A device activity log is recorded for all clients and devices connected along with all administrative actions such as device authorizations, giving a history for devices, PCs and users for future audits and detailed analysis.

1.2.4. Audit Trail – Reporting and Analysis Tools

Endpoint Protector 4 is equipped with powerful reporting and analysis tools to make the data audit process easy and straightforward.

1.2.5. Sensitive Content Filtering

Scans and reports all transfers of sensitive data on and from any removable media or via the Internet.

1.2.6. File Whitelist

Allows only previously authorized files to be copied to portable storage devices.

1.2.7. Easy Enforcement of Your Security Policies

Simplified device management policies with customizable templates for defining User Group permissions allow easy enforcement and maintenance of your latest security policies across your network.

1.2.8. Network "Offline" Mode to Support Your Field Employees

“Offline Temporary Password” to allow time limited access to a specific device when the client computer is disconnected from the network.

Protected PCs that are temporary or frequently disconnected from the network like laptops stay protected based on the last locally saved policy. All notifications are transmitted at the next network connection.

1.2.9. Enforced Encryption - protecting sensitive data in transit / Trusted Device

The technology behind Trusted Devices is designed to certify that in the corporate environment all the endpoint devices are not only authorized and controlled via endpoint software and security policies but also certified and trusted for protecting sensitive and confidential data in transit (in case of a Trusted Device). This will assure that in the event a device is stolen or lost all the data stored on it is encrypted and therefore not accessible for other parties.

1.2.10. Client Uninstall Protection

Endpoint Protector 4 offers a password-based solution that prevents the users from uninstalling the Endpoint Protector Clients, thus ensuring continuous data protection.

1.2.11. Client Stop Protection / Tamper Protection

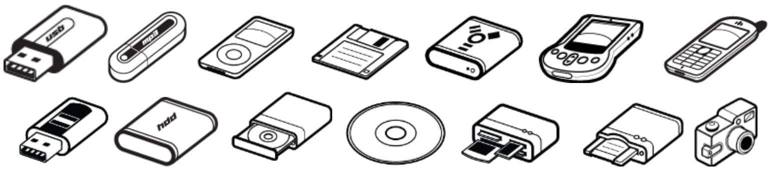
Endpoint Protector 4 prevents users from stopping the Endpoint Protector Clients at any time.

1.2.12. Backup Scheduler

Endpoint Protector 4 provides an automatic log backup solution in order to prevent the server from overloading.

1.3. Controlled Device Types / Ports

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
- Wireless USB
- LPT/Parallel ports
  By controlling the Parallel ports of a PC using Endpoint Protector, the network administrator can deny or allow users access to storage devices connected to these ports.
  * APPLIES ONLY TO STORAGE DEVICES
- Floppy disk drives
  Access to floppy disk drives can be managed through Endpoint Protector and can be turned on/off completely.
- Memory Cards - SD Cards, MMC Cards, and Compact Flash Cards, etc.
  These devices can be enabled / disabled via Endpoint Protector.
- Card Readers - internal and external
  These devices can be enabled / disabled via Endpoint Protector.
- CD/DVD-Player/Burner - internal and external
  These devices can be enabled / disabled via Endpoint Protector.
- Digital Cameras
  These devices can be enabled / disabled via Endpoint Protector.

- Smartphones / Handhelds / PDAs
  This category includes Nokia N-Series, Blackberry, and Windows CE compatible devices, Windows Mobile devices, etc.

- iPods / iPhones / iPads
  These devices can be enabled / disabled via Endpoint Protector.

- MP3 Player / Media Player Devices
  These devices can be enabled / disabled via Endpoint Protector.

- External HDDs / portable hard disks
  These devices can be enabled / disabled via Endpoint Protector.

- FireWire Devices
  These devices can be enabled / disabled via Endpoint Protector.

- PCMCIA Devices
  These devices can be enabled / disabled via Endpoint Protector.

- Biometric Devices
  These devices can be enabled / disabled via Endpoint Protector.

- Bluetooth
  These devices can be enabled / disabled via Endpoint Protector.

- Printers
  Applies to serial, USB and LPT connection methods. These devices can be enabled / disabled via Endpoint Protector.

- ExpressCard (SSD)
  These devices can be enabled / disabled via Endpoint Protector.

1.4. Conclusions

As information theft and data leakage are a reality of today’s business world, effectively preventing all possible security breaches is becoming an ultimate concern for enterprise security experts. Endpoint security comes to complete your existing security policies, aiming to render it full proof.

As new circumvention and data compromising techniques come to diminish the benefits of new devices and gadgets, Endpoint Protector secures your company’s technologically enabled mobility. Thus, by easily protecting all exposed endpoints from inbound and outbound threats, you can enjoy enhanced portability, efficiency and productivity.

As it enables your employees to use devices you have already invested in and it protects your company from losses generated by attacks from outside and within, all financial costs entailed by implementing Endpoint Protector, such as purchase, implementation and usage training expenses, are fully justified by the yielded return on investment.

2. Server Functionality / Server Components

The functionality is designed to be around several physical entities:

- Computers (PCs, MACs and Linux workstations with Endpoint Protector Client installed)
- Devices (the devices which are currently supported by Endpoint Protector. e.g.: USB devices, digital photo cameras, USB memory cards etc)
- Client user (the user who will use the devices and the computers)

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

- Web Service – responsible of communicating with the clients and storing the information received from them
- The Administration and Reporting Tool – responsible for managing the existing devices, computers, users, groups and their behavior in the entire system
- Endpoint Protector Appliance Hardware (Only applies if you have purchased the Endpoint Protector Hardware Appliance) – is the hardware running the Endpoint Protector Server containing Operating System, Database, etc.

2.1. Endpoint Protector – Web Service

The Web Service of Endpoint Protector is responsible for the communication between Endpoint Protector Server and the Client computers. Starting with the registration of the client computers, the Web Service sends the settings and rights of each computer and also receives the log information from each client and stores that information in the database.

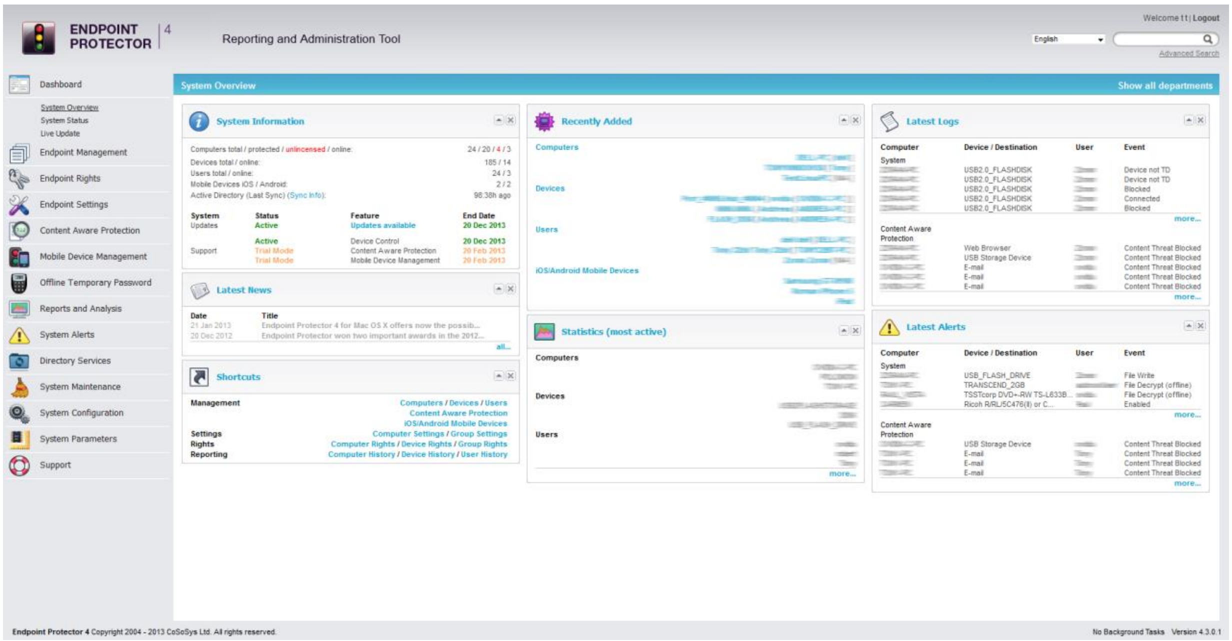
The Web Service is started as long as the Web server is running, and it is ready to respond to each client request.

2.2. Administration and Reporting Tool

This part of the Server is designated as a tool for customizing the behavior of the entire system (Server and Clients) and to offer the administrator(s) (the person handling this tool) the necessary information regarding the activity on the system.

Access to this part of the Web server is restricted by a username/password pair. The users accessing the Web application are referred to as Administrator in this document. This administrator can be a regular administrator or super administrator. The difference between the two is the level of access to some administrative parts of the application. The regular administrator cannot change critical system parameters, cannot create/delete other administrators and has restricted access to some areas of Endpoint Protector.

Dashboard – Lets you view statistics of the server such as the number of clients and devices currently connected, total number of computers, log and shadow size, last logged action, newest added client, latest news about the product and the company, licensing status, etc. and also provides shortcuts to the essential management tools.



System Information

Computers total / protected / unlicensed / online: 24 / 20 / 4 / 3
Devices total / online: 185 / 14
Users total / online: 24 / 3
Mobile Devices iOS / Android: 2 / 2
Active Directory (Last Sync) (Sync Info): 98:38h ago

System	Status	Feature	End Date
Updates	Active	Updates available	20 Dec 2013
	Active	Device Control	20 Dec 2013
Support	Trial Mode	Content Aware Protection	20 Feb 2013
	Trial Mode	Mobile Device Management	20 Feb 2013

Latest News

Date	Title
21 Jan 2013	Endpoint Protector 4 for Mac OS X offers now the possib...
20 Dec 2012	Endpoint Protector won two important awards in the 2012...

all...

Shortcuts

Management: Computers / Devices / Users; Content Aware Protection; iOS/Android Mobile Devices
Settings: Computer Settings / Group Settings
Rights: Computer Rights / Device Rights / Group Rights
Reporting: Computer History / Device History / User History

Recently Added

Computers [redacted]
Devices [redacted]
Users [redacted]
iOS/Android Mobile Devices [redacted]

Statistics (most active)

Computers [redacted]
Devices [redacted]
Users [redacted]
more...

Latest Logs

Computer	Device / Destination	User	Event
System			
[redacted]	USB2.0_FLASHDISK	[redacted]	Device not TD
[redacted]	USB2.0_FLASHDISK	[redacted]	Device not TD
[redacted]	USB2.0_FLASHDISK	[redacted]	Blocked
[redacted]	USB2.0_FLASHDISK	[redacted]	Connected
[redacted]	USB2.0_FLASHDISK	[redacted]	Blocked
			more...
Content Aware Protection			
[redacted]	Web Browser	[redacted]	Content Threat Blocked
[redacted]	USB Storage Device	[redacted]	Content Threat Blocked
[redacted]	E-mail	[redacted]	Content Threat Blocked
[redacted]	E-mail	[redacted]	Content Threat Blocked
[redacted]	E-mail	[redacted]	Content Threat Blocked
			more...

Latest Alerts

Computer	Device / Destination	User	Event
System			
[redacted]	USB_FLASH_DRIVE	[redacted]	File Write
[redacted]	TRANSCEND_2GB	[redacted]	File Decrypt (offline)
[redacted]	TSSTcorp DVD+-RW TS-L633B...	[redacted]	File Decrypt (offline)
[redacted]	Ricoh R/RL/5C476(II) or C...	[redacted]	Enabled
			more...
Content Aware Protection			
[redacted]	USB Storage Device	[redacted]	Content Threat Blocked
[redacted]	E-mail	[redacted]	Content Threat Blocked
[redacted]	E-mail	[redacted]	Content Threat Blocked
[redacted]	E-mail	[redacted]	Content Threat Blocked
			more...

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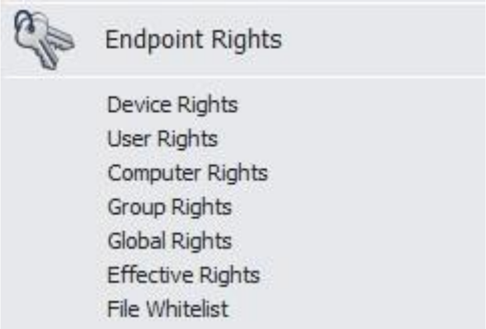
No Background Tasks Version 4.3.0.1

Endpoint Management – Used for administration of Devices, Computers, Groups, and Client Users.

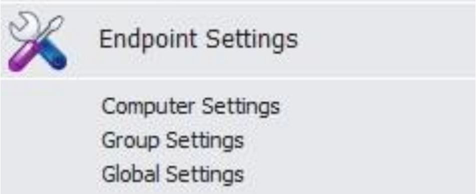
In this module, the administrator can edit, manage rights and settings for or even delete devices, computers or groups. He can also create groups and add or remove client users.

Endpoint Rights – Used to determine and define rules of access. Six subsections are found here Devices Rights, User Rights, Computers Rights, Group Rights, Global Rights, Effective Rights and File Whitelist.



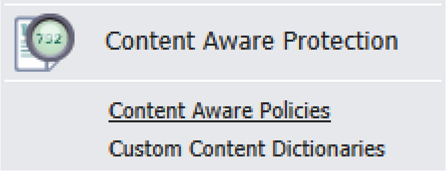
This is the most important module of Endpoint Protector. In this module the administrator can set up and enforce security policies by assigning specific rights to devices, computers, computer groups and global device access. Please refer to section 4 “Endpoint Rights” for more information.

Endpoint Settings – Used for setting the behavior of computers, groups of computers or all the computers.

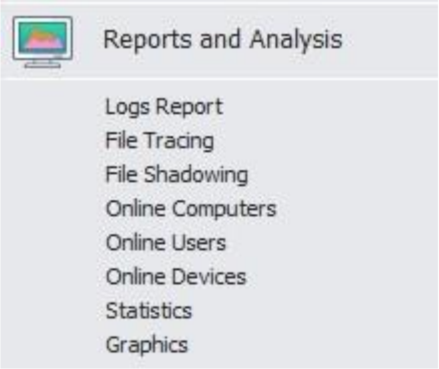


In this module the administrator can modify global settings such as the log upload interval, local log and shadow size, as well as manage computer and computer group’s settings. The functionality mode (Normal, Stealth, Transparent, etc) can also be set from here.

Content Aware Protection – Separate module, which allows creating and enforcing strong content aware policies for a better control of what data leaves the company network via any removable media or the Internet.



Reports and Analysis – Designed to offer the administrator information regarding the past and current activity on the system (Server and Clients). It includes several sections such as Online Computers, Online Users, Statistics, Graphics, etc. Several information formats are available for view and export.

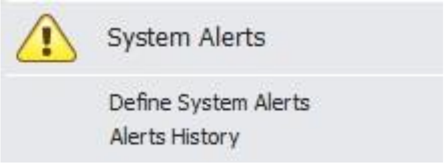


Reports and Analysis

Logs Report
File Tracing
File Shadowing
Online Computers
Online Users
Online Devices
Statistics
Graphics

Similar to the Dashboard, this module displays usage statistics on past and current activities, but with more details.

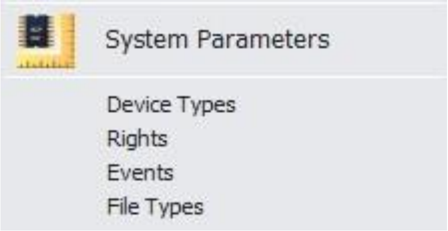
System Alerts – Allows the creation of System Alerts – notifications, set up by administrators, which will alert them if a certain device was connected or accessed, a certain user performed a certain action, etc. Please see paragraph 8 "Alerts" for more details.



System Alerts

Define System Alerts
Alerts History

System Parameters – Here you can determine the functionality of the entire system. This module includes sections such as Device and File Types, Rights and Events.



System Parameters

Device Types
Rights
Events
File Types

2.3. Accessing the Administration and Reporting Tool

To access the Administration and Reporting Tool, simply open a browser and enter the IP address of the Endpoint Protector Server, the Endpoint Protector Appliance IP or the Server Host Name.

In case you enter the IP address, please note that you must use the HTTPS (Hypertext Transfer Protocol Secure) prefix, followed by the IP address of the Endpoint Protector Server.

Example: https://127.0.0.1/index.php.

(In case of using the Endpoint Protector Appliance the default IP address is https://192.168.0.201).

If you use Internet Explorer, we recommend that you add this page to Internet Explorer's trusted sites. To do this, follow the steps in paragraph 19 "Installing Root Certificates to your Internet Browser".

2.4. Login Credentials (Username and Password)

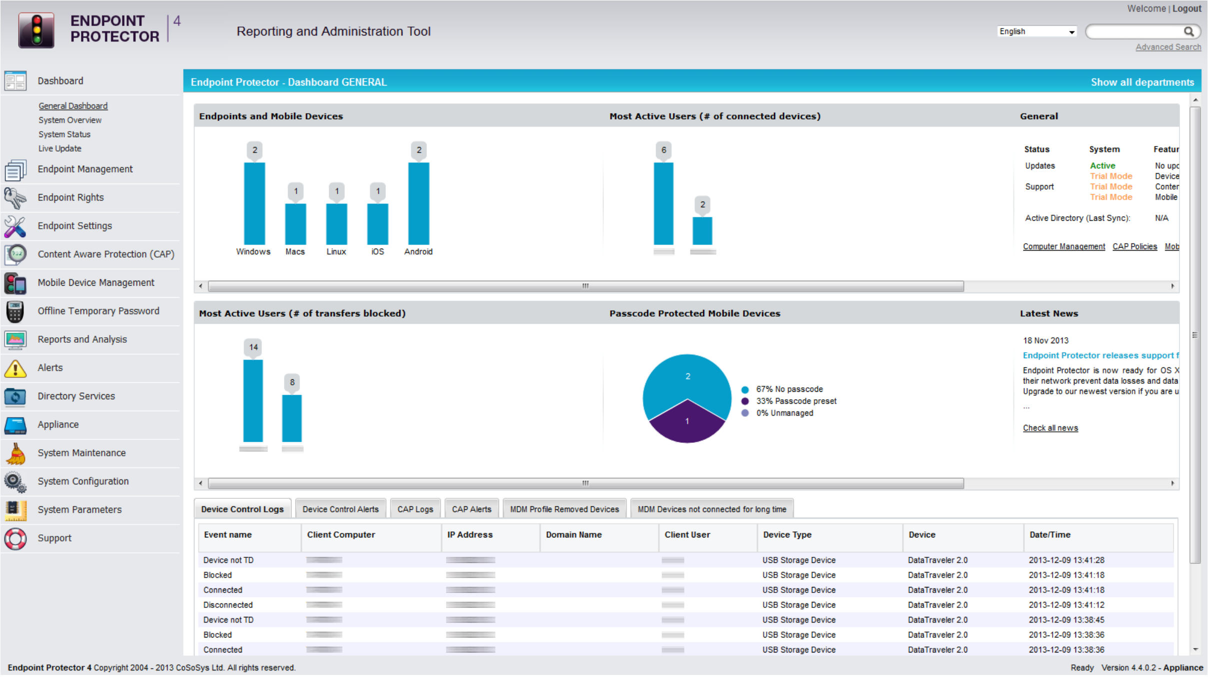
The default username and password for Endpoint Protector 4 Administration and Reporting Tool are:

USERNAME:	root
PASSWORD:	epp2011

To change the username and password and to create additional administrators, please see paragraph 11.2 "System Administrators".

2.5. General Dashboard

Some of the most important activities logged by EPP can be monitored under this tab. The image below is self-explanatory.



Status | System | Featur
Updates | Active | No upc
 | Trial Mode | Device
Support | Trial Mode | Conter
 | Trial Mode | Mobile

Active Directory (Last Sync): N/A

18 Nov 2013

Endpoint Protector releases support f

Endpoint Protector is now ready for OS X their network prevent data losses and data Upgrade to our newest version if you are u ...

Event name	Client Computer	IP Address	Domain Name	Client User	Device Type	Device	Date/Time
Device not TD	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:41:28
Blocked	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:41:18
Connected	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:41:18
Disconnected	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:41:12
Device not TD	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:38:45
Blocked	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:38:36
Connected	[redacted]	[redacted]		[redacted]	USB Storage Device	DataTraveler 2.0	2013-12-09 13:38:36

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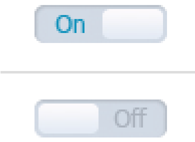
More specific dashboards are available at Endpoint Management, Content Aware Protection and Mobile Device Management.

2.6. System Status

Under the System Status tab from the Dashboard module, you can access the “System Lockdown”, “Endpoint Protector ON/OFF” , “Content Aware Protection ON/OFF”.



System Lockdown - Pressing this button will cause Endpoint Protector to instantly deny access to all devices in the system, stopping also ongoing data transfers (depending on device type). Log files are still created of what was accessed or modified before the Lockdown button was pushed.

Note!

The following device types are not blocked in the event of a System Lockdown: Wi-Fi, Keyboards, Bluetooth and USB Modems.

Endpoint Protector ON/OFF – Pressing this button (OFF) will stop all Endpoint Protector related activities completely. This means that all devices, even those previously blocked, will now be usable, logging of traffic will stop as well as file shadowing.

Content Aware Protection ON/OFF – Pressing this button (OFF) will stop all Content Aware Protection related activities completely. This means that all files that are sensitive or are containing sensitive data will not be detected and will not be reported.

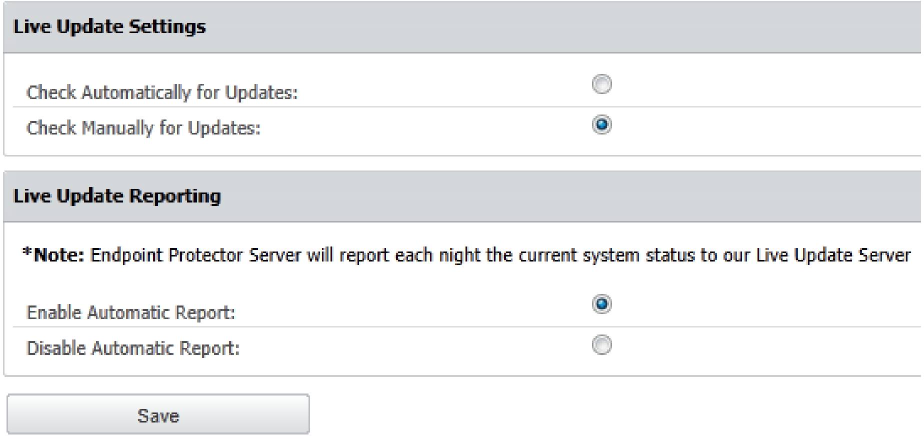
The “**Re-read**” command will force all computers to re-read their rights at the next refresh interval.

2.7. Live Update

This section allows checking and applying the latest Endpoint Protector Server updates. Please note that this feature communicates through port 80.

The two options available are:

- Configure Live Update – allows selecting one of the two options for performing the live update check: manually or automatically and enabling or disabling the Automatic Reporting to the Live Update Server



Live Update Settings

Check Automatically for Updates: ○

Check Manually for Updates: ●

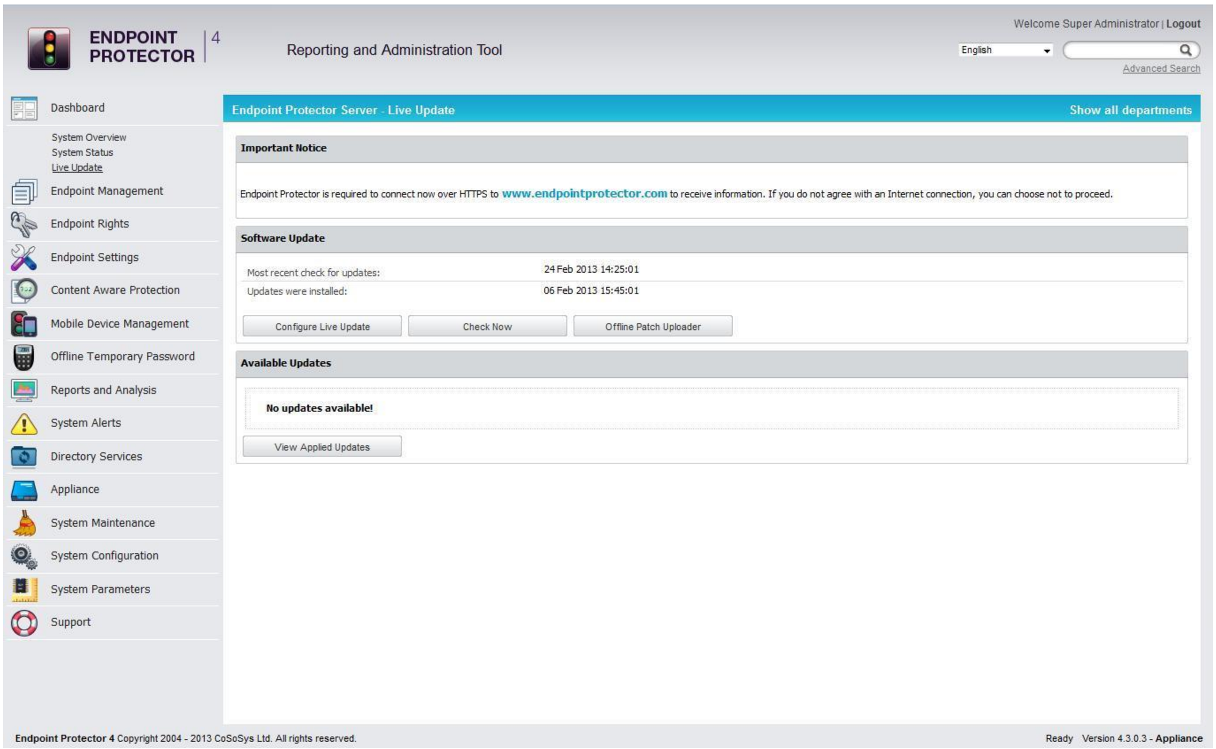
Live Update Reporting

***Note:** Endpoint Protector Server will report each night the current system status to our Live Update Server

Enable Automatic Report: ●

Disable Automatic Report: ○

- Check Now – searches for the latest Endpoint Protector Server updates.



Endpoint Protector Server - Live Update

Important Notice

Endpoint Protector is required to connect now over HTTPS to **www.endpointprotector.com** to receive information. If you do not agree with an Internet connection, you can choose not to proceed.

Software Update

Most recent check for updates: 24 Feb 2013 14:25:01

Updates were installed: 06 Feb 2013 15:45:01

Available Updates

No updates available!

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Ready Version 4.3.0.3 - **Appliance**

In case that new updates are found, they are displayed under the Available Updates window section and can be directly installed by pressing on the “Apply Updates” button. The latest installed updates can be checked by pressing on the “View Applied Updates” button.

- Offline Patch Uploader - offers the possibility to upload updates in offline mode, without an internet connection

Note!

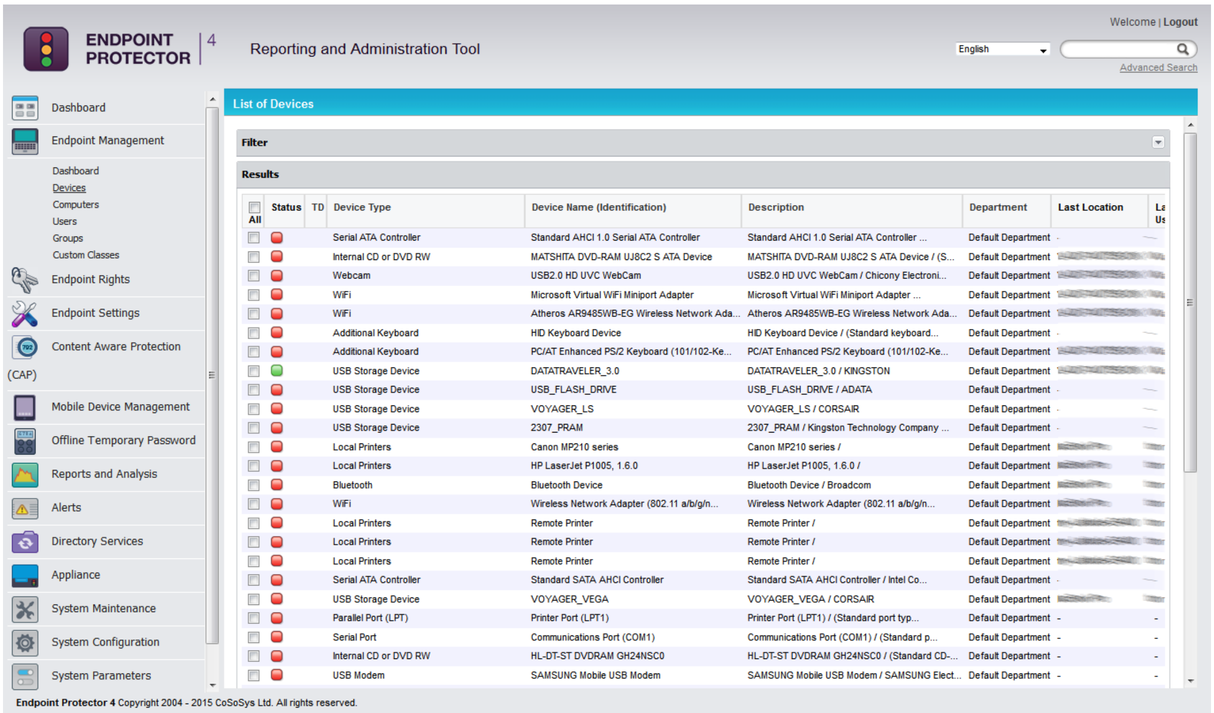
Contact support@endpointprotector.com to request the Offline Patch.

3. Endpoint Management

3.1. Devices

In this module the administrator can manage all devices in the system. Endpoint Protector has an automatic system implemented meaning that it will automatically add any unknown devices connected to client computers to the database, thus making them manageable.

When an unknown device is connected to one of the client computers, the device's parameters are stored in the system database as: device data (Vendor ID, Product ID, and Serial Number). The user who first used the device is stored as the default user of the device. This, however, can be changed anytime, later.



□ All	Status	TD	Device Type	Device Name (Identification)	Description	Department	Last Location	La Us
□	🟥		Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller ...	Default Department	-	-
□	🟥		Internal CD or DVD RW	MATSHITA DVD-RAM UJ8C2 S ATA Device	MATSHITA DVD-RAM UJ8C2 S ATA Device / (S...	Default Department	[redacted]	[redacted]
□	🟥		Webcam	USB2.0 HD UVC WebCam	USB2.0 HD UVC WebCam / Chicony Electroni...	Default Department	[redacted]	[redacted]
□	🟥		WiFi	Microsoft Virtual WiFi Miniport Adapter	Microsoft Virtual WiFi Miniport Adapter ...	Default Department	[redacted]	[redacted]
□	🟥		WiFi	Atheros AR9485WB-EG Wireless Network Ada...	Atheros AR9485WB-EG Wireless Network Ada...	Default Department	[redacted]	[redacted]
□	🟥		Additional Keyboard	HID Keyboard Device	HID Keyboard Device / (Standard keyboard...	Default Department	-	-
□	🟥		Additional Keyboard	PC/AT Enhanced PS/2 Keyboard (101/102-Ke...	PC/AT Enhanced PS/2 Keyboard (101/102-Ke...	Default Department	[redacted]	[redacted]
□	🟩		USB Storage Device	DATATRAVELER_3.0	DATATRAVELER_3.0 / KINGSTON	Default Department	[redacted]	[redacted]
□	🟥		USB Storage Device	USB_FLASH_DRIVE	USB_FLASH_DRIVE / ADATA	Default Department	-	-
□	🟥		USB Storage Device	VOYAGER_LS	VOYAGER_LS / CORSAIR	Default Department	-	-
□	🟥		USB Storage Device	2307_PRAM	2307_PRAM / Kingston Technology Company ...	Default Department	-	-
□	🟥		Local Printers	Canon MP210 series	Canon MP210 series /	Default Department	[redacted]	[redacted]
□	🟥		Local Printers	HP LaserJet P1005, 1.6.0	HP LaserJet P1005, 1.6.0 /	Default Department	[redacted]	[redacted]
□	🟥		Bluetooth	Bluetooth Device	Bluetooth Device / Broadcom	Default Department	[redacted]	[redacted]
□	🟥		WiFi	Wireless Network Adapter (802.11 a/b/g/n...	Wireless Network Adapter (802.11 a/b/g/n...	Default Department	[redacted]	[redacted]
□	🟥		Local Printers	Remote Printer	Remote Printer /	Default Department	[redacted]	[redacted]
□	🟥		Local Printers	Remote Printer	Remote Printer /	Default Department	[redacted]	[redacted]
□	🟥		Local Printers	Remote Printer	Remote Printer /	Default Department	[redacted]	[redacted]
□	🟥		Serial ATA Controller	Standard SATA AHCI Controller	Standard SATA AHCI Controller / Intel Co...	Default Department	-	-
□	🟥		USB Storage Device	VOYAGER_VEGA	VOYAGER_VEGA / CORSAIR	Default Department	[redacted]	[redacted]
□	🟥		Parallel Port (LPT)	Printer Port (LPT1)	Printer Port (LPT1) / (Standard port typ...	Default Department	-	-
□	🟥		Serial Port	Communications Port (COM1)	Communications Port (COM1) / (Standard p...	Default Department	-	-
□	🟥		Internal CD or DVD RW	HL-DT-ST DVDRAM GH24NSC0	HL-DT-ST DVDRAM GH24NSC0 / (Standard CD-...	Default Department	-	-
□	🟥		USB Modem	SAMSUNG Mobile USB Modem	SAMSUNG Mobile USB Modem / SAMSUNG Elect...	Default Department	-	-

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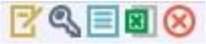
These are the actions available to the administrator in this module:



Edit, Manage Rights, Device History, Export Device History, Delete

Manage Rights and Device History are actually shortcuts to the Devices Rights and Logs Report modules, and will be explained in one of the following chapters.

The status column indicates the current rights for the devices.

🔴 Red means that the device is blocked in the system.

🟢 Green means that the device is allowed on computers or users.

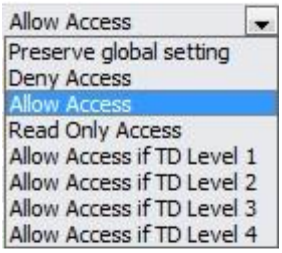
🟡 Yellow means that device is allowed on some users or computers with restrictions.

3.2. Device Functionality

Endpoint Protector can handle a wide variety of devices and device types and offers several methods of usage for each device in particular. These can be found by accessing the "Endpoint Rights" module of Endpoint Protector and selecting one of the relevant Rights tabs. The Endpoint Rights module contains the following sections: Device Rights, User Rights, Computer Rights, Group Rights, Global Rights, Effective Rights and File Whitelist.

Depending on the network policy, administrators can use the following settings:

- Preserve Global settings
- Deny access to devices
- Allow access to devices
- Enable read-only access
- Trusted Device Level 1 to Level 4
- Block WiFi if wired Internet connection is present


Allow Access
Preserve global setting
Deny Access
Allow Access
Read Only Access
Allow Access if TD Level 1
Allow Access if TD Level 2
Allow Access if TD Level 3
Allow Access if TD Level 4

3.2.1. Give / Deny Access to Devices

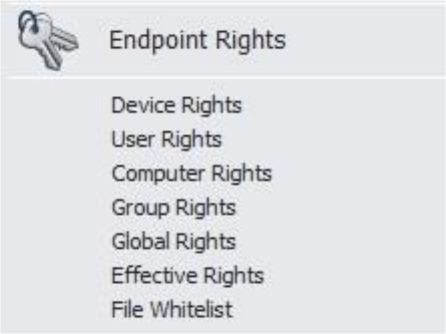
With this option the administrator can give or deny complete access to a certain device making it usable or obsolete for a certain group, computer or user.

The administrator can configure these settings for each device individually and can also choose for what computer(s), user(s) and group(s) they will apply to.

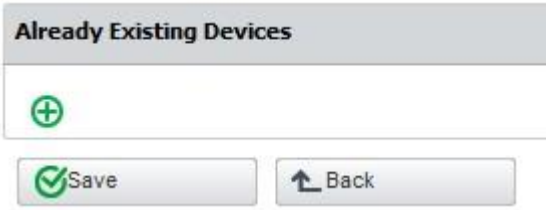
The File Whitelisting feature allows the super administrator to control the transfer of only authorized files to previously authorized portable storage devices.

To configure File Whitelisting, please see paragraph 4.7 "File Whitelist".

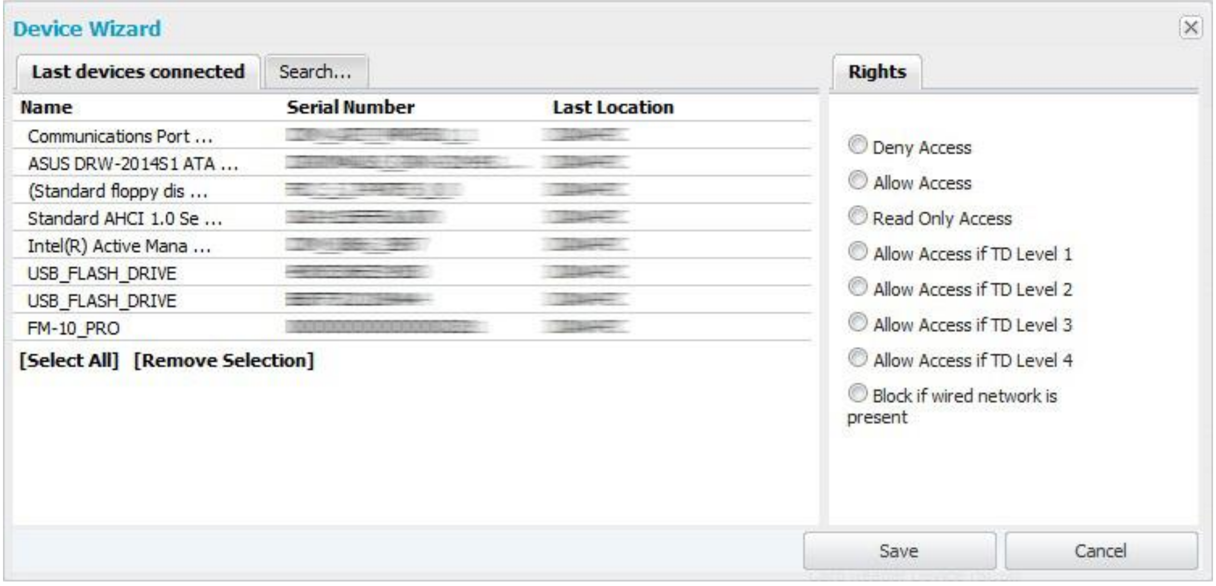
Once configured, you can enable this feature for devices, users, computers and groups. To do this, simply access the Endpoint Rights module and select device, computer, user or group rights, depending on the rights priority configuration of your server.



Select the device, user, computer or group you wish to manage rights for and click the + (plus) button at the bottom of the page, under "Already Existing Devices"



Once you do that, the Device Wizard will appear, allowing you to select the device(s) you wish to manage. Please note that you need to allow access to the storage device in order to enable the File Whitelisting for it.



Device Wizard

Last devices connected | Search...

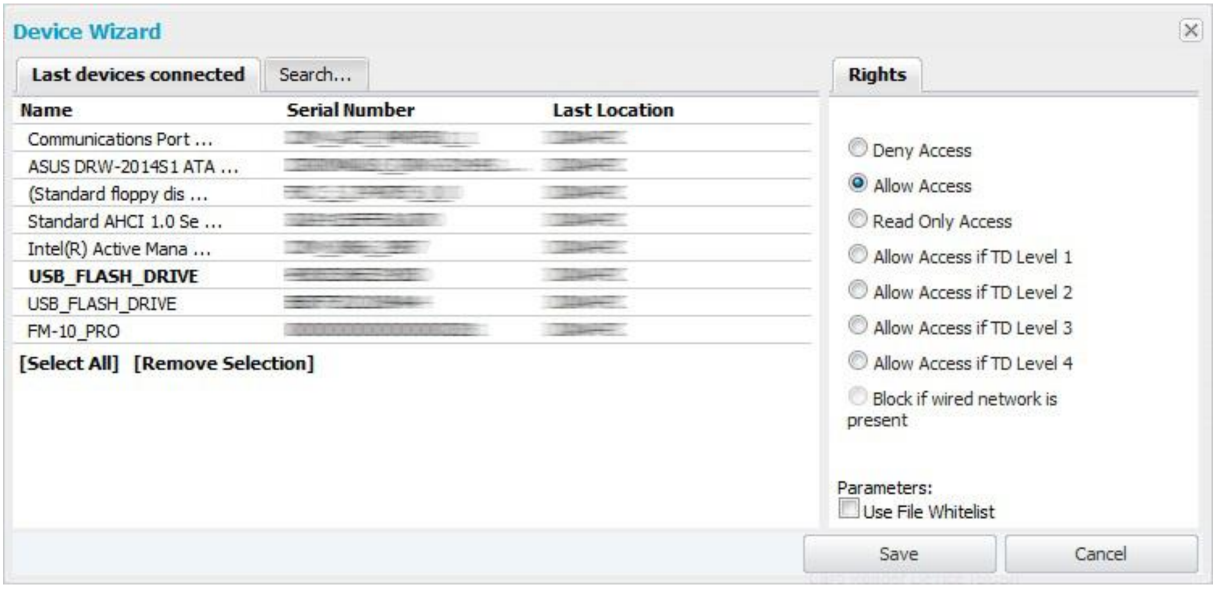
Name	Serial Number	Last Location
Communications Port ...	[redacted]	[redacted]
ASUS DRW-2014S1 ATA ...	[redacted]	[redacted]
(Standard floppy dis ...	[redacted]	[redacted]
Standard AHCI 1.0 Se ...	[redacted]	[redacted]
Intel(R) Active Mana ...	[redacted]	[redacted]
USB_FLASH_DRIVE	[redacted]	[redacted]
USB_FLASH_DRIVE	[redacted]	[redacted]
FM-10_PRO	[redacted]	[redacted]

[Select All] [Remove Selection]

Rights

○ Deny Access
○ Allow Access
○ Read Only Access
○ Allow Access if TD Level 1
○ Allow Access if TD Level 2
○ Allow Access if TD Level 3
○ Allow Access if TD Level 4
○ Block if wired network is present

Selecting a device will allow you to select one of the rights for that device.



Device Wizard

Last devices connected | Search...

Name	Serial Number	Last Location
Communications Port ...	[redacted]	[redacted]
ASUS DRW-2014S1 ATA ...	[redacted]	[redacted]
(Standard floppy dis ...	[redacted]	[redacted]
Standard AHCI 1.0 Se ...	[redacted]	[redacted]
Intel(R) Active Mana ...	[redacted]	[redacted]
USB_FLASH_DRIVE	[redacted]	[redacted]
USB_FLASH_DRIVE	[redacted]	[redacted]
FM-10_PRO	[redacted]	[redacted]

[Select All] [Remove Selection]

Rights

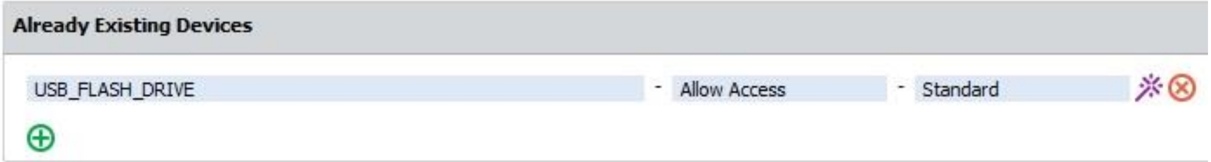
○ Deny Access
● Allow Access
○ Read Only Access
○ Allow Access if TD Level 1
○ Allow Access if TD Level 2
○ Allow Access if TD Level 3
○ Allow Access if TD Level 4
○ Block if wired network is present

Parameters:
□ Use File Whitelist

Once you select a portable device, and choose "Allow Access" for it, you will also have the option to enable File Whitelisting for that device.

Click "Save" to store your changes.

The device(s) you selected will appear in the "Already Existing Devices" section.



Already Existing Devices

USB_FLASH_DRIVE - Allow Access - Standard

To add more devices, simply repeat the steps mentioned above.

To change or delete added devices use either “Rights Wizard” or “Remove” action buttons.

🪄⊗

3.2.2. Enable Device Read-Only Access

With this option the administrator can enable read-only access to devices preventing the deletion or alteration of data on the device(s).

The administrator can configure each device individually and can also choose for what computer(s), user(s) and group(s) it will apply to.

3.2.3. TrustedDevice Level 1 to Level 4

The TrustedDevices™ technology integrated within Endpoint Protector is available in four security levels, depending on the degree of protection offered by a device (devices using EasyLock™ are TD level 1).

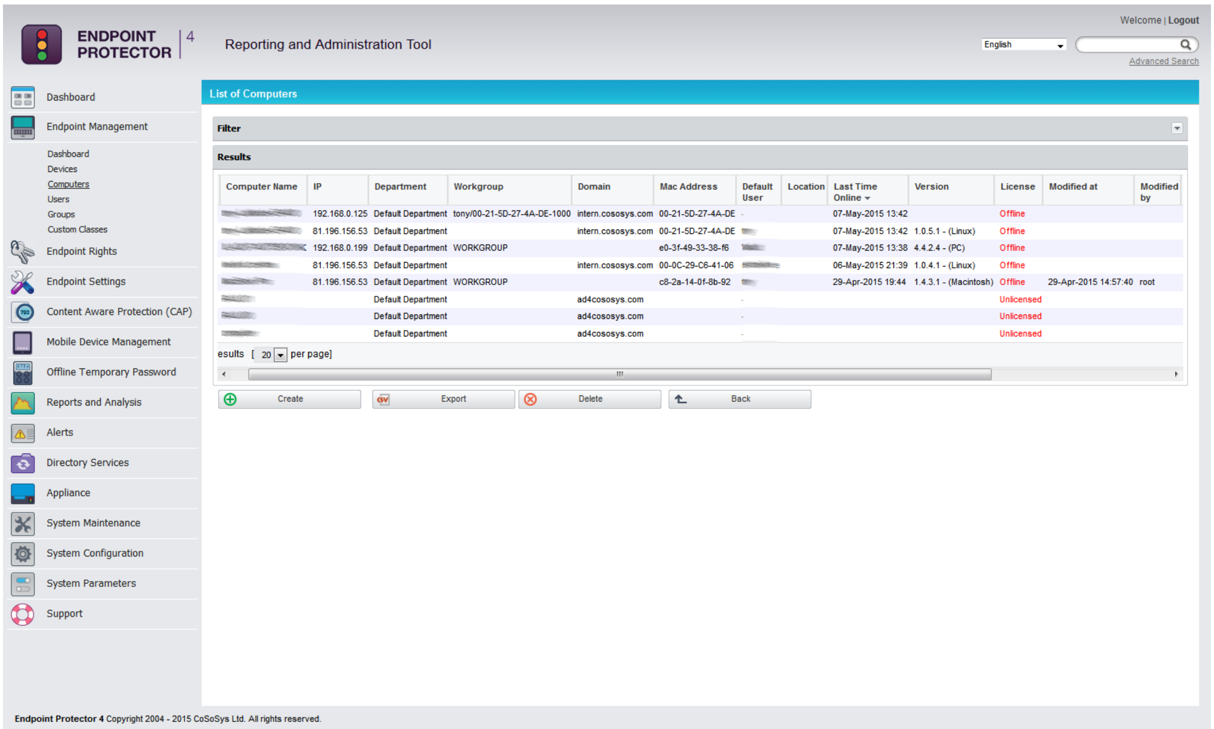
For more information on TrustedDevices™ and EasyLock™, refer to section 15. “Enforced Encryption with TrustedDevice” in this user manual.

3.2.4. WiFi - Block if wired network is present

With this option the administrator 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.

3.3. Computers

This is the module responsible for managing the client computers.



Computer Name	IP	Department	Workgroup	Domain	Mac Address	Default User	Location	Last Time Online	Version	License	Modified at	Modified by
[redacted]	192.168.0.125	Default Department	tony/00-21-5D-27-4A-DE-1000	intern.cososys.com	00-21-5D-27-4A-DE	-		07-May-2015 13:42		Offline		
[redacted]	81.196.156.53	Default Department		intern.cososys.com	00-21-5D-27-4A-DE	[redacted]		07-May-2015 13:42	1.0.5.1 - (Linux)	Offline		
[redacted]	192.168.0.199	Default Department	WORKGROUP		e0-3f-49-33-38-f6	[redacted]		07-May-2015 13:38	4.4.2.4 - (PC)	Offline		
[redacted]	81.196.156.53	Default Department		intern.cososys.com	00-0C-29-C6-41-06	[redacted]		06-May-2015 21:39	1.0.4.1 - (Linux)	Offline		
[redacted]	81.196.156.53	Default Department	WORKGROUP		c8-2a-14-0f-8b-92	[redacted]		29-Apr-2015 19:44	1.4.3.1 - (Macintosh)	Offline	29-Apr-2015 14:57:40	root
[redacted]		Default Department		ad4cososys.com		-				Unlicensed		
[redacted]		Default Department		ad4cososys.com		-				Unlicensed		
[redacted]		Default Department		ad4cososys.com		-				Unlicensed		

esults [20 per page]

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The client computers have a registration mechanism. This self-registration mechanism is run once after the Endpoint Protector Client software is installed on a client computer. The client software will then communicate to the server its existence in the system. The server will store the information regarding the client computer in the system database and it will assign a license to the client computer (if none available, a demo license will be created and assigned, which will expire after 30 days).

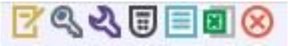
NOTE!

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.

Computers can also be imported into Endpoint Protector from Active Directory using the Active Directory Plug-in.

For details, please see paragraph 10.1 “Active Directory Import”.

The available actions here are:

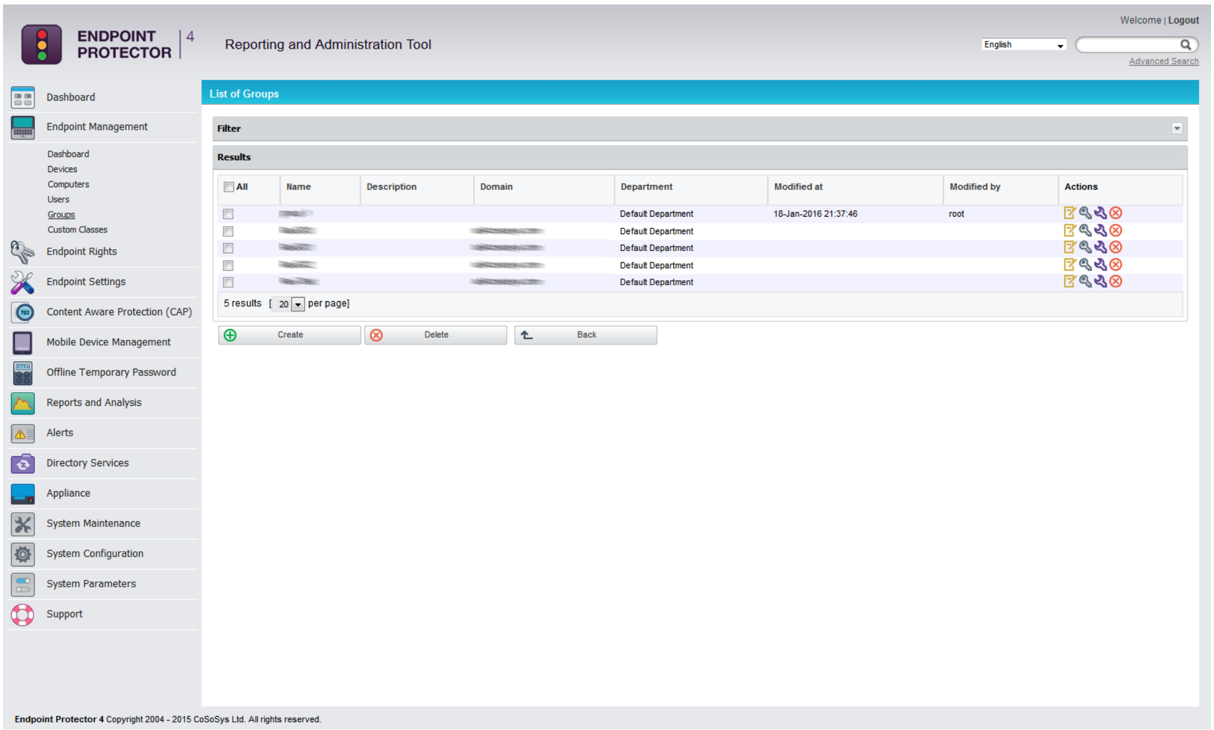


Edit, Manage Rights, Manage Settings, Offline Temporary Password, Computer History, Export Computer History and Delete. The Manage Rights, Manage Settings, Offline Temporary Password and Computer History are links to their respective modules, which will be explained in their own chapter.

For a better organization and manageability, a computer can be assigned as belonging to a Group (several computers within the same office, a group of computers which will have same access rights or settings) or to a Department (an alternative organization to groups). For more details about departments, please see paragraph 11.3 "System Departments".

3.4. Groups

This module is responsible for editing groups. **Edit**, **Manage Rights**, **Manage Settings** and **Delete** are the commands available from this section.



List of Groups

Filter

Results

□ All	Name	Description	Domain	Department	Modified at	Modified by	Actions
□	[redacted]			Default Department	18-Jan-2016 21:37:46	root	
□	[redacted]		[redacted]	Default Department			
□	[redacted]		[redacted]	Default Department			
□	[redacted]		[redacted]	Default Department			
□	[redacted]		[redacted]	Default Department			

5 results [20 per page]

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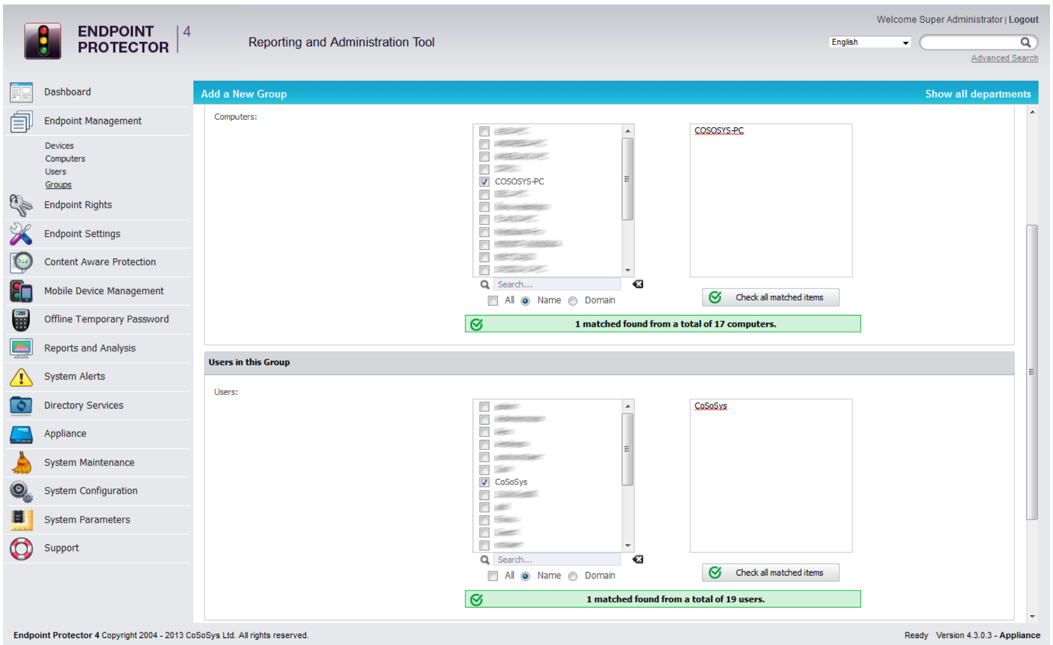
Grouping computers and client users will help the administrator to manage the rights, or settings for these entities in an efficient way. This can be done from the Group Rights and Group Settings tabs.

When creating a new group there is the possibility to add multiple users / computers simultaneously, by using the checkboxes and the option "Check all matched items".



Computers:

☑ COSOSYS-PC

COSOSYS-PC

1 matched found from a total of 17 computers.

Users in this Group

Users:

☑ CoSoSys

CoSoSys

1 matched found from a total of 19 users.

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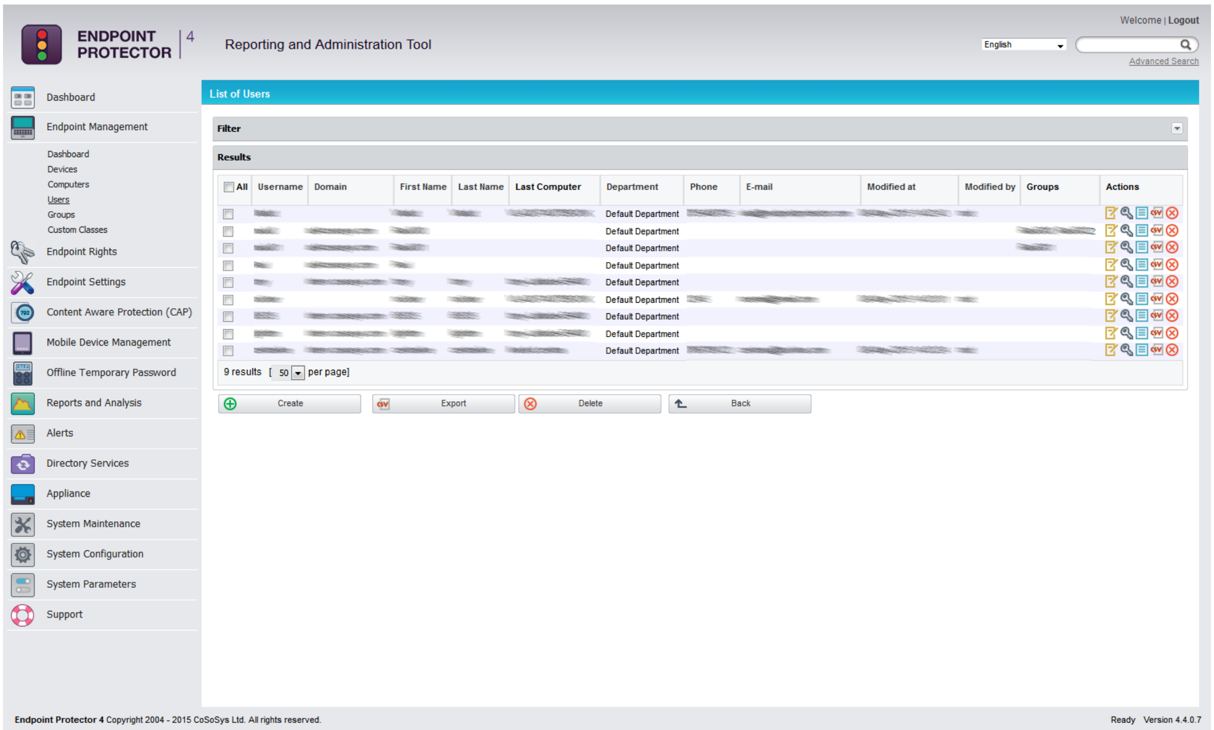
3.5. Users

The client users are the end users who are logged on a computer on which the Endpoint Protector Client software is installed.



List of Users

Results

□ All	Username	Domain	First Name	Last Name	Last Computer	Department	Phone	E-mail	Modified at	Modified by	Groups	Actions
□	[redacted]		[redacted]	[redacted]	[redacted]	Default Department	[redacted]	[redacted]	[redacted]	[redacted]		
□	[redacted]	[redacted]	[redacted]			Default Department					[redacted]	
□	[redacted]	[redacted]	[redacted]			Default Department					[redacted]	
□	[redacted]	[redacted]	[redacted]			Default Department						
□	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Default Department						
□	[redacted]		[redacted]	[redacted]	[redacted]	Default Department	[redacted]	[redacted]	[redacted]	[redacted]		
□	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Default Department						
□	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Default Department						
□	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Default Department	[redacted]	[redacted]	[redacted]	[redacted]		

9 results [50 per page]

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This module has a self-completing mechanism: as soon as a user has some activity on the system and he is new in the system, he will be added to the system database.

Actions available in this group are: **Edit, Manage Rights, User History, Export User History** and **Delete**.

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 in to 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.

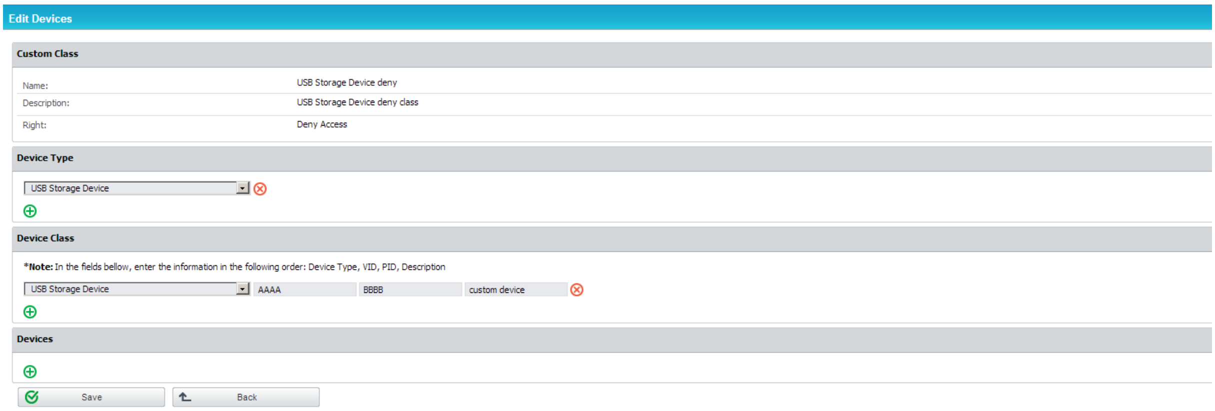
autorunUser – indicates that an installer has been launched by Windows from the specific device. It is the user attached to all events generated by the programs launched from the specific device when Autoplay is enabled in the Operating System.

The users can be arranged in groups for easier management at a later point. Users can also be imported into Endpoint Protector from Active Directory through the Active Directory Plug-in.

For details, please see paragraph 10.1 "Active Directory Import".

3.6. Custom Classes

This module is responsible for creating new classes of devices for an easier management inside the system. It is a powerful function especially for devices belonging to the same vendor and/or being the same product (same VID and/or PID).



Edit Devices

Custom Class

Name:	USB Storage Device deny
Description:	USB Storage Device deny class
Right:	Deny Access

Device Type

USB Storage Device

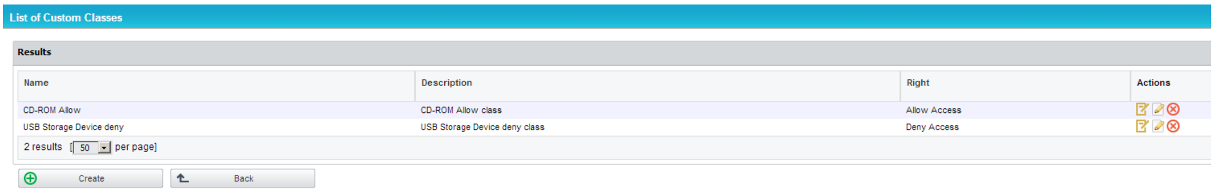
Device Class

***Note:** In the fields bellow, enter the information in the following order: Device Type, VID, PID, Description

USB Storage Device	AAAA	BBBB	custom device

Devices

By selecting Endpoint Management > Custom Classes, the administrator is able to create and edit custom classes by adding new entities to the existing ones.



List of Custom Classes

Results

Name	Description	Right	Actions
CD-ROM Allow	CD-ROM Allow class	Allow Access	
USB Storage Device deny	USB Storage Device deny class	Deny Access	

2 results [50 per page]

When creating a new custom class or editing an existing one, the administrator may provide a unique name and a short description, followed by the specification of the rights that will be automatically applied to all included devices.

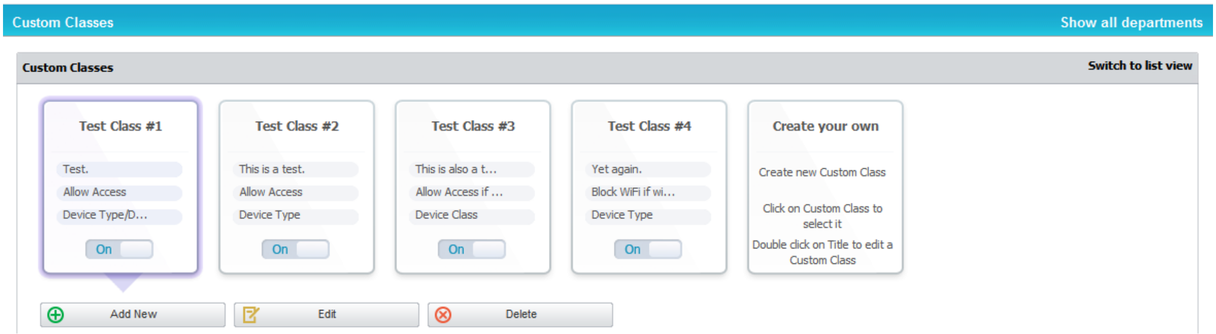
Note!

The rights set for a Custom Class will override all the other existing rights for the devices included in the newly created class and they will apply for any Endpoint Protector Client PC.

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".

The user interface for Custom Classes is set by default to resemble the below shown. A list view is available by clicking the **Switch to list view** button.



Custom Classes

Test Class #1
Test.
Allow Access
Device Type/D…
On

Test Class #2
This is a test.
Allow Access
Device Type
On

Test Class #3
This is also a t…
Allow Access if …
Device Class
On

Test Class #4
Yet again.
Block WiFi if wi…
Device Type
On

Create your own
Create new Custom Class
Click on Custom Class to select it
Double click on Title to edit a Custom Class

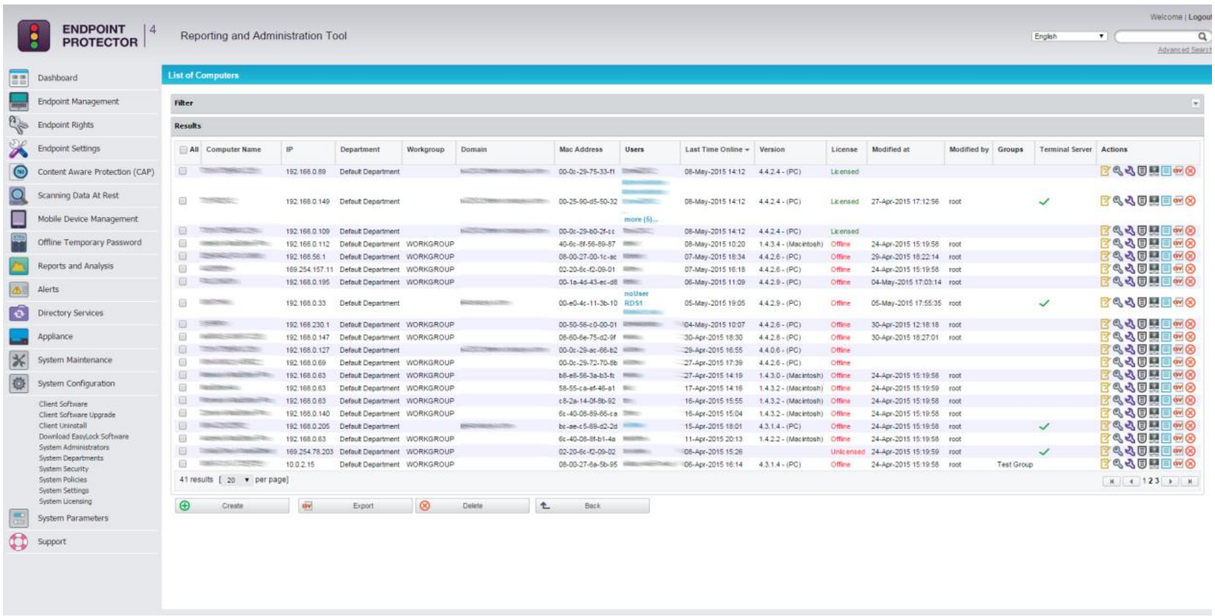
3.7. Terminal Servers and Thin Clients

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.

3.7.1. Initial Configuration

The process starts with the menu view from Endpoint Management -> Computers, namely the action to **Mark as Terminal Server** .

After successfully marking the computer present in the system as a Terminal Server, a distinctive ✓ will be displayed for ease of identification, as seen below:



List of Computers

Filter

Results

□ All	Computer Name	IP	Department	Workgroup	Domain	Mac Address	Users	Last Time Online ▾	Version	License	Modified at	Modified by	Groups	Terminal Server	Actions
□	[redacted]	192.168.0.89	Default Department		[redacted]	00-0c-29-75-33-f1	[redacted]	08-May-2015 14:12	4.4.2.4 - (PC)	Licensed					
□	[redacted]	192.168.0.149	Default Department		[redacted]	00-25-90-d5-50-32	[redacted] more (5)...	08-May-2015 14:12	4.4.2.4 - (PC)	Licensed	27-Apr-2015 17:12:56	root		✓	
□	[redacted]	192.168.0.109	Default Department		[redacted]	00-0c-29-b0-2f-cc	[redacted]	08-May-2015 14:12	4.4.2.4 - (PC)	Licensed					
□	[redacted]	192.168.0.112	Default Department	WORKGROUP		40-6c-8f-56-89-87	[redacted]	08-May-2015 10:20	1.4.3.4 - (Macintosh)	Offline	24-Apr-2015 15:19:58	root			
□	[redacted]	192.168.56.1	Default Department	WORKGROUP		08-00-27-00-1c-ac	[redacted]	07-May-2015 18:34	4.4.2.6 - (PC)	Offline	29-Apr-2015 18:22:14	root			
□	[redacted]	169.254.157.11	Default Department	WORKGROUP		02-20-6c-f2-09-01	[redacted]	07-May-2015 16:18	4.4.2.6 - (PC)	Offline	24-Apr-2015 15:19:58	root			
□	[redacted]	192.168.0.195	Default Department	WORKGROUP		00-1a-4d-43-ec-d8	[redacted]	06-May-2015 11:09	4.4.2.9 - (PC)	Offline	04-May-2015 17:03:14	root			
□	[redacted]	192.168.0.33	Default Department		[redacted]	00-e0-4c-11-3b-10	noUser RDS1 [redacted]	05-May-2015 19:05	4.4.2.9 - (PC)	Offline	05-May-2015 17:55:35	root		✓	
□	[redacted]	192.168.230.1	Default Department	WORKGROUP		00-50-56-c0-00-01	[redacted]	04-May-2015 10:07	4.4.2.6 - (PC)	Offline	30-Apr-2015 12:18:18	root			
□	[redacted]	192.168.0.147	Default Department	WORKGROUP		08-60-6e-75-d2-9f	[redacted]	30-Apr-2015 18:30	4.4.2.8 - (PC)	Offline	30-Apr-2015 18:27:01	root			
□	[redacted]	192.168.0.127	Default Department		[redacted]	00-0c-29-ac-66-b2	[redacted]	29-Apr-2015 16:55	4.4.0.6 - (PC)	Offline					
□	[redacted]	192.168.0.69	Default Department	WORKGROUP		00-0c-29-72-70-8b	[redacted]	27-Apr-2015 17:39	4.4.2.6 - (PC)	Offline					
□	[redacted]	192.168.0.63	Default Department	WORKGROUP		b8-e8-56-3a-b3-fc	[redacted]	27-Apr-2015 14:19	1.4.3.0 - (Macintosh)	Offline	24-Apr-2015 15:19:58	root			
□	[redacted]	192.168.0.63	Default Department	WORKGROUP		58-55-ca-ef-46-a1	[redacted]	17-Apr-2015 14:16	1.4.3.2 - (Macintosh)	Offline	24-Apr-2015 15:19:59	root			
□	[redacted]	192.168.0.63	Default Department	WORKGROUP		c8-2a-14-0f-8b-92	[redacted]	16-Apr-2015 15:55	1.4.3.2 - (Macintosh)	Offline	24-Apr-2015 15:19:58	root			
□	[redacted]	192.168.0.140	Default Department	WORKGROUP		6c-40-08-89-66-ca	[redacted]	16-Apr-2015 15:04	1.4.3.2 - (Macintosh)	Offline	24-Apr-2015 15:19:58	root			
□	[redacted]	192.168.0.205	Default Department		[redacted]	bc-ae-c5-69-d2-2d	[redacted]	15-Apr-2015 18:01	4.3.1.4 - (PC)	Offline	24-Apr-2015 15:19:58	root		✓	
□	[redacted]	192.168.0.63	Default Department	WORKGROUP		6c-40-08-8f-b1-4a	[redacted]	11-Apr-2015 20:13	1.4.2.2 - (Macintosh)	Offline	24-Apr-2015 15:19:58	root			
□	[redacted]	169.254.78.203	Default Department	WORKGROUP		02-20-6c-f2-09-02	[redacted]	08-Apr-2015 15:26		Unlicensed	24-Apr-2015 15:19:59	root		✓	
□	[redacted]	10.0.2.15	Default Department	WORKGROUP		08-00-27-6a-5b-95	[redacted]	06-Apr-2015 16:14	4.3.1.4 - (PC)	Offline	24-Apr-2015 15:19:58	root	Test Group		

41 results [20 ▾ per page]

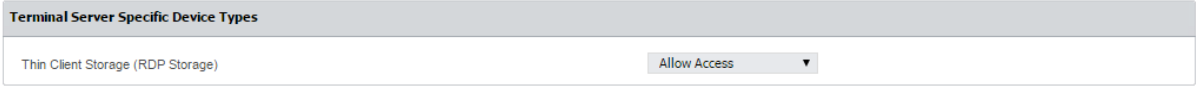
Note!

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 (1) 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 Endpoint Rights -> 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 ▾

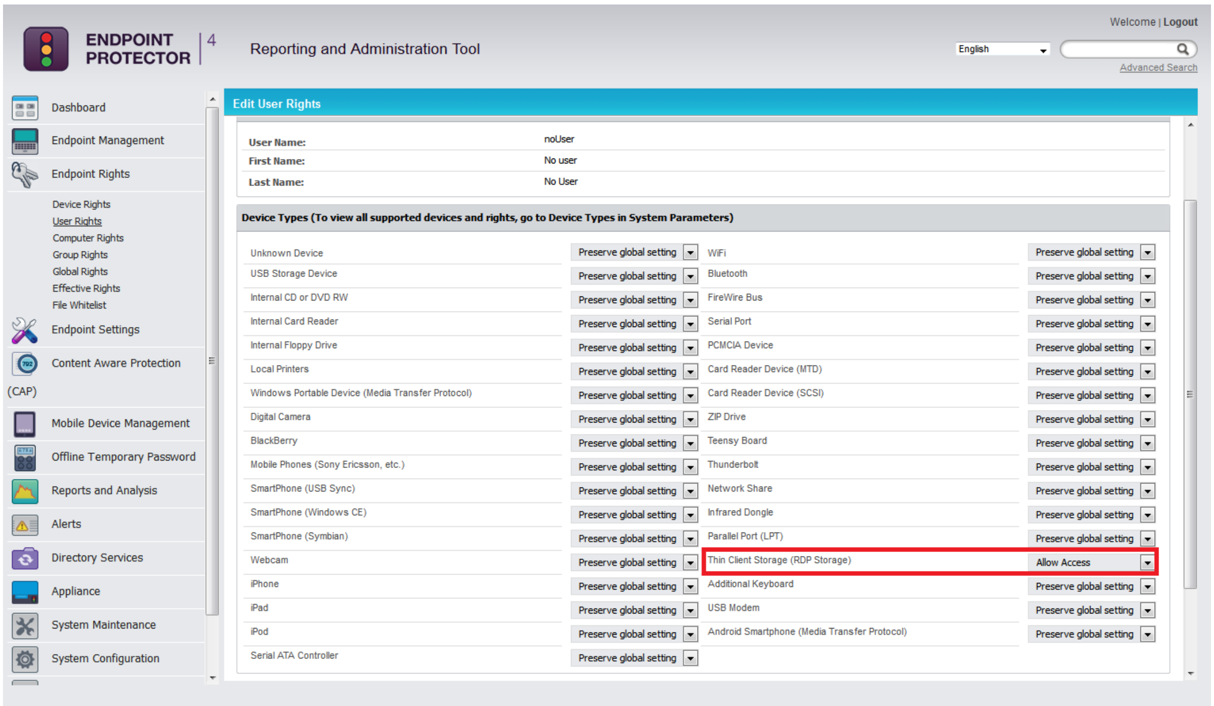
An Allow Access right set to the RDP Storage device type will enable all users that connect to the Terminal Server by RDP to transfer files to and from their local disk volume or shared storage devices such as USBs.

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!

The option to Use User Rights must be checked 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 Endpoint Rights > User Rights will present an additional device type for all the Users in Endpoint Protector, namely Thin Client Storage (RDP Storage).



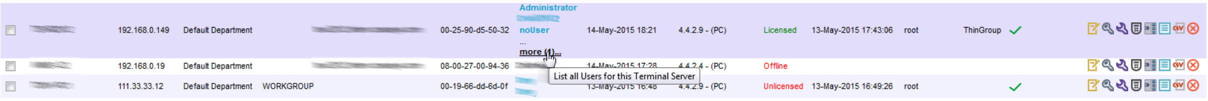
Edit User Rights

User Name:	noUser
First Name:	No user
Last Name:	No User

Device Types (To view all supported devices and rights, go to Device Types in System Parameters)

Unknown Device	Preserve global setting	WiFi	Preserve global setting
USB Storage Device	Preserve global setting	Bluetooth	Preserve global setting
Internal CD or DVD RW	Preserve global setting	FireWire Bus	Preserve global setting
Internal Card Reader	Preserve global setting	Serial Port	Preserve global setting
Internal Floppy Drive	Preserve global setting	PCMCIA Device	Preserve global setting
Local Printers	Preserve global setting	Card Reader Device (MTD)	Preserve global setting
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
Mobile Phones (Sony Ericsson, etc.)	Preserve global setting	Thunderbolt	Preserve global setting
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
Webcam	Preserve global setting	Thin Client Storage (RDP Storage)	Allow Access
iPhone	Preserve global setting	Additional Keyboard	Preserve global setting
iPad	Preserve global setting	USB Modem	Preserve global setting
iPod	Preserve global setting	Android Smartphone (Media Transfer Protocol)	Preserve global setting
Serial ATA Controller	Preserve global setting		

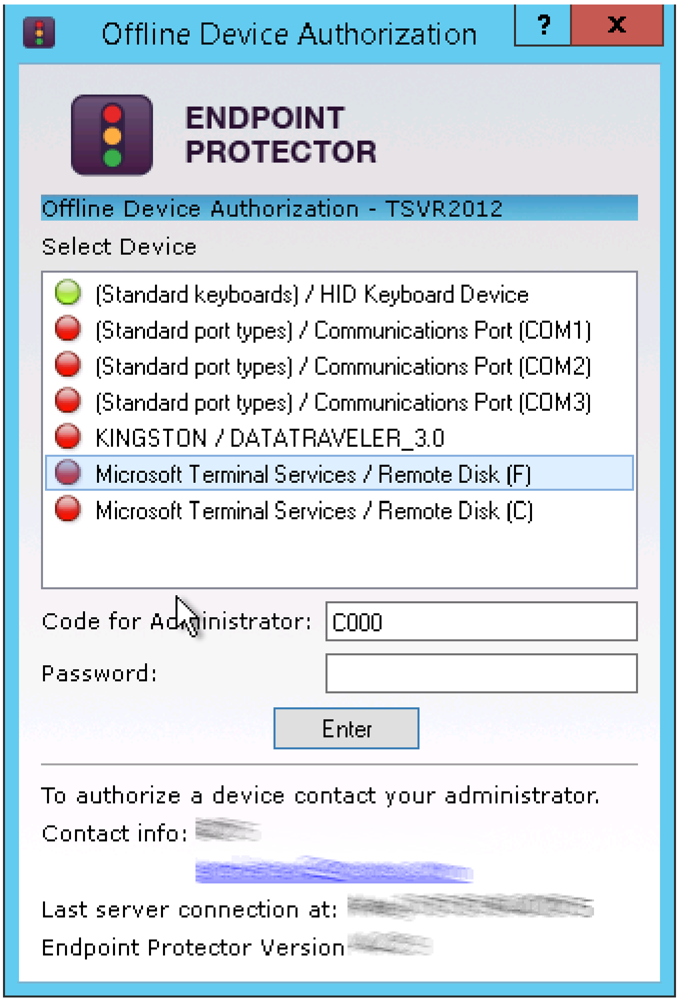
Multiple users can be recognized as active users on any given Terminal Server, and so, this rights setting can be used as a powerful tool to create access policies to specific users, as detailed in the use case below.



□	[redacted]	192.168.0.149	Default Department	[redacted]	00-25-90-d5-50-32	Administrator [redacted] noUser ... more (1)...	14-May-2015 18:21	4.4.2.9 - (PC)	Licensed	13-May-2015 17:43:06	root	ThinGroup	✓
□	[redacted]	192.168.0.19	Default Department	[redacted]	08-00-27-00-94-36	[redacted]	14-May-2015 17:28	4.4.2.4 - (PC)	Offline				
□	[redacted]	111.33.33.12	Default Department	WORKGROUP	00-19-66-dd-6d-0f	[redacted]	13-May-2015 16:48	4.4.2.9 - (PC)	Unlicensed	13-May-2015 16:49:26	root		✓

List all Users for this Terminal Server

On a Windows Terminal server, the Endpoint Protector client will display RDP Storage disks shared by one or multiple thin clients as seen below.



Offline Device Authorization - TSVR2012

Select Device

- 🟢 (Standard keyboards) / HID Keyboard Device
- 🔴 (Standard port types) / Communications Port (COM1)
- 🔴 (Standard port types) / Communications Port (COM2)
- 🔴 (Standard port types) / Communications Port (COM3)
- 🔴 KINGSTON / DATATRAVELER_3.0
- 🔴 Microsoft Terminal Services / Remote Disk (F)
- 🔴 Microsoft Terminal Services / Remote Disk (C)

Code for Administrator: C000

Password:

Enter

To authorize a device contact your administrator.

Contact info: [redacted]

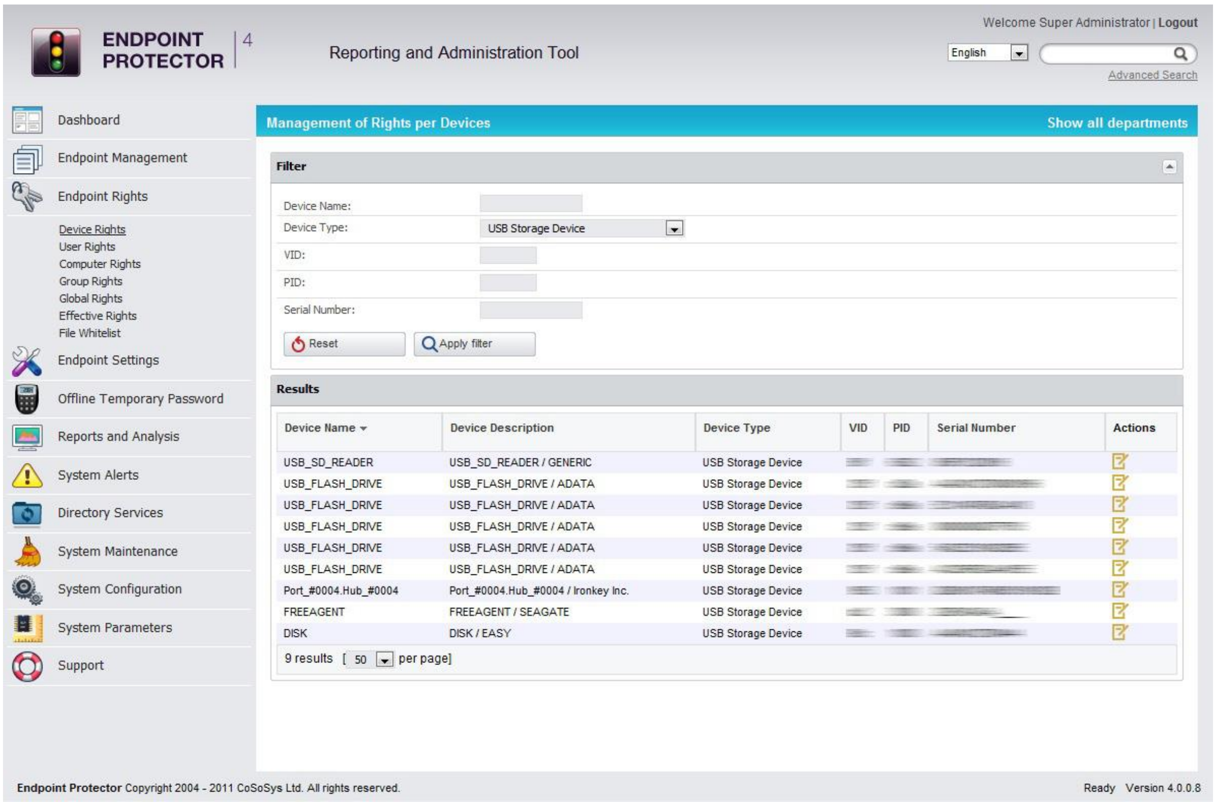
[redacted]

Last server connection at: [redacted]

Endpoint Protector Version [redacted]

4. Endpoint Rights

The modules in this area will allow the administrator to define which device can be used on computers, groups and which client users have access to them.



Filter

Device Name:
Device Type: USB Storage Device
VID:
PID:
Serial Number:

Reset | Apply filter

Results

Device Name	Device Description	Device Type	VID	PID	Serial Number	Actions
USB_SD_READER	USB_SD_READER / GENERIC	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
USB_FLASH_DRIVE	USB_FLASH_DRIVE / ADATA	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
USB_FLASH_DRIVE	USB_FLASH_DRIVE / ADATA	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
USB_FLASH_DRIVE	USB_FLASH_DRIVE / ADATA	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
USB_FLASH_DRIVE	USB_FLASH_DRIVE / ADATA	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
USB_FLASH_DRIVE	USB_FLASH_DRIVE / ADATA	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
Port_#0004.Hub_#0004	Port_#0004.Hub_#0004 / Ironkey Inc.	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
FREEAGENT	FREEAGENT / SEAGATE	USB Storage Device	[redacted]	[redacted]	[redacted]	✎
DISK	DISK / EASY	USB Storage Device	[redacted]	[redacted]	[redacted]	✎

9 results [50 per page]

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Ready Version 4.0.0.8

The rule of inheritance is as follows (from most important to least important): Computer Rights -> Group Rights -> Global Rights. The rights are overwritten in this order.

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.

"Restore Global Rights" (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.

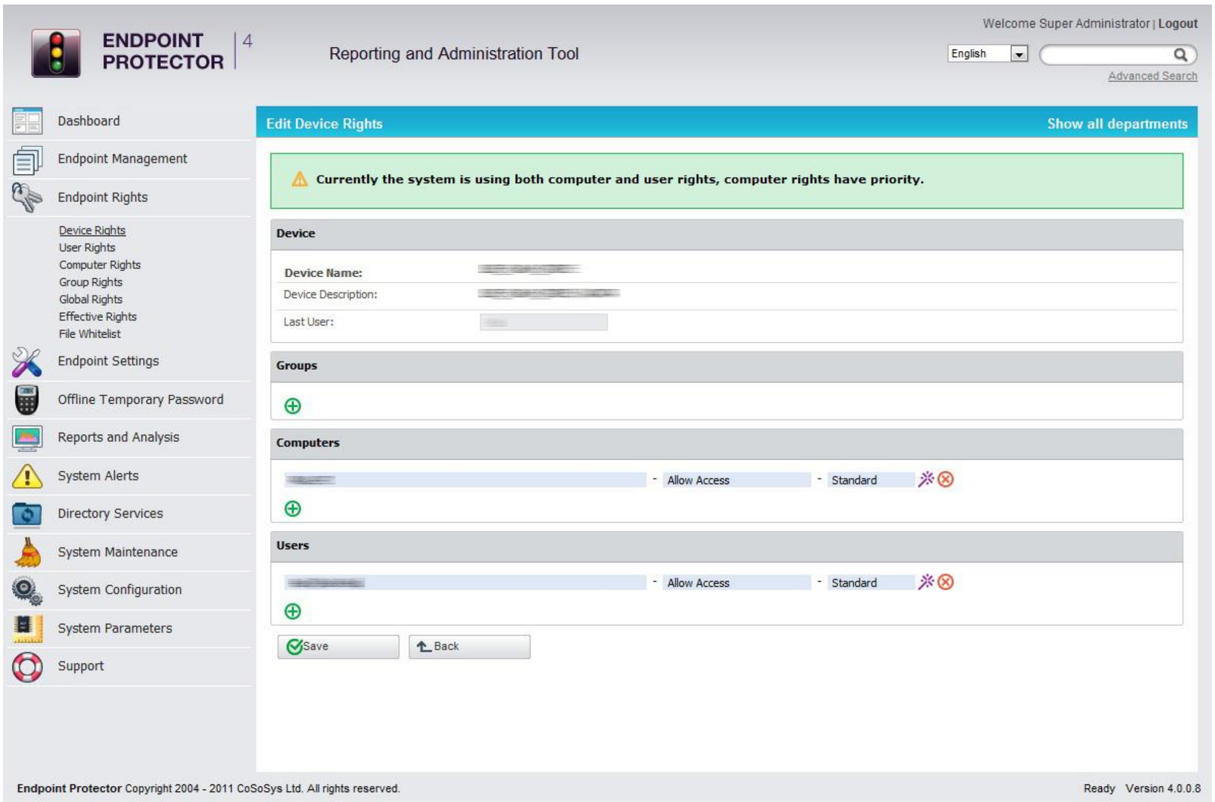
Example: If the action is done on group rights, the entities from that group will use from that point onwards the global rights.

Note!

All "already existing devices" that were added on that level will be deleted when the restore is used.

4.1. Device Rights

This module is built around the devices, allowing the administrator to enable or disable them for specific computers, groups or users.



ENDPOINT PROTECTOR | 4 Reporting and Administration Tool

Welcome Super Administrator | **Logout**

English

Advanced Search

Edit Device Rights **Show all departments**

⚠ **Currently the system is using both computer and user rights, computer rights have priority.**

Device

Device Name: [redacted]
Device Description: [redacted]
Last User: [redacted]

Groups

Computers

[redacted] - Allow Access - Standard

Users

[redacted] - Allow Access - Standard

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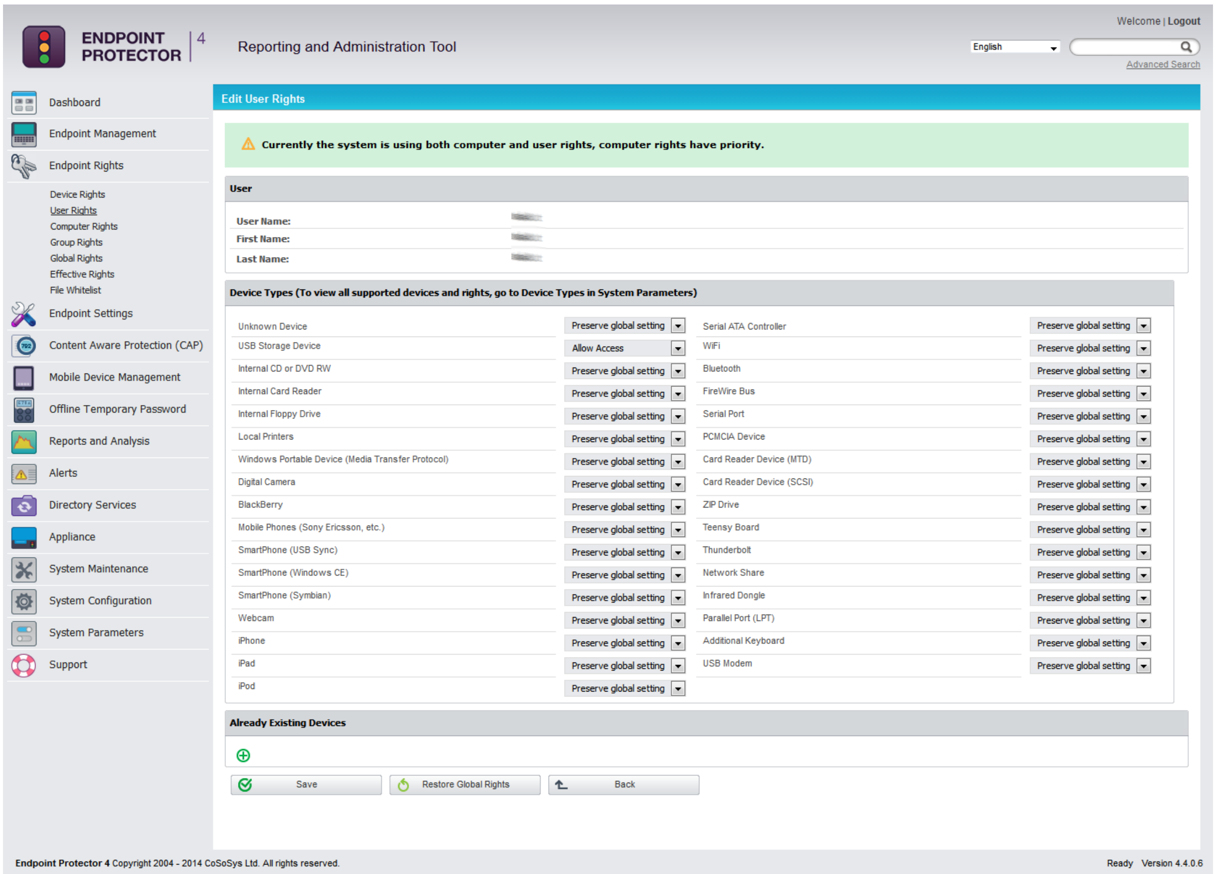
After selecting a computer, you select the computers and group of computers for which the device has specified rights.

4.2. User Rights

This module is built around the user, allowing administrators to manage rights of access to devices per users.



Edit User Rights

⚠ Currently the system is using both computer and user rights, computer rights have priority.

User

User Name:	[redacted]
First Name:	[redacted]
Last Name:	[redacted]

Device Types (To view all supported devices and rights, go to Device Types in System Parameters)

Unknown Device	Preserve global setting	Serial ATA Controller	Preserve global setting
USB Storage Device	Allow Access	WiFi	Preserve global setting
Internal CD or DVD RW	Preserve global setting	Bluetooth	Preserve global setting
Internal Card Reader	Preserve global setting	FireWire Bus	Preserve global setting
Internal Floppy Drive	Preserve global setting	Serial Port	Preserve global setting
Local Printers	Preserve global setting	PCMCIA Device	Preserve global setting
Windows Portable Device (Media Transfer Protocol)	Preserve global setting	Card Reader Device (MTD)	Preserve global setting
Digital Camera	Preserve global setting	Card Reader Device (SCSI)	Preserve global setting
BlackBerry	Preserve global setting	ZIP Drive	Preserve global setting
Mobile Phones (Sony Ericsson, etc.)	Preserve global setting	Teensy Board	Preserve global setting
SmartPhone (USB Sync)	Preserve global setting	Thunderbolt	Preserve global setting
SmartPhone (Windows CE)	Preserve global setting	Network Share	Preserve global setting
SmartPhone (Symbian)	Preserve global setting	Infrared Dongle	Preserve global setting
Webcam	Preserve global setting	Parallel Port (LPT)	Preserve global setting
iPhone	Preserve global setting	Additional Keyboard	Preserve global setting
iPad	Preserve global setting	USB Modem	Preserve global setting
iPod	Preserve global setting		

Already Existing Devices

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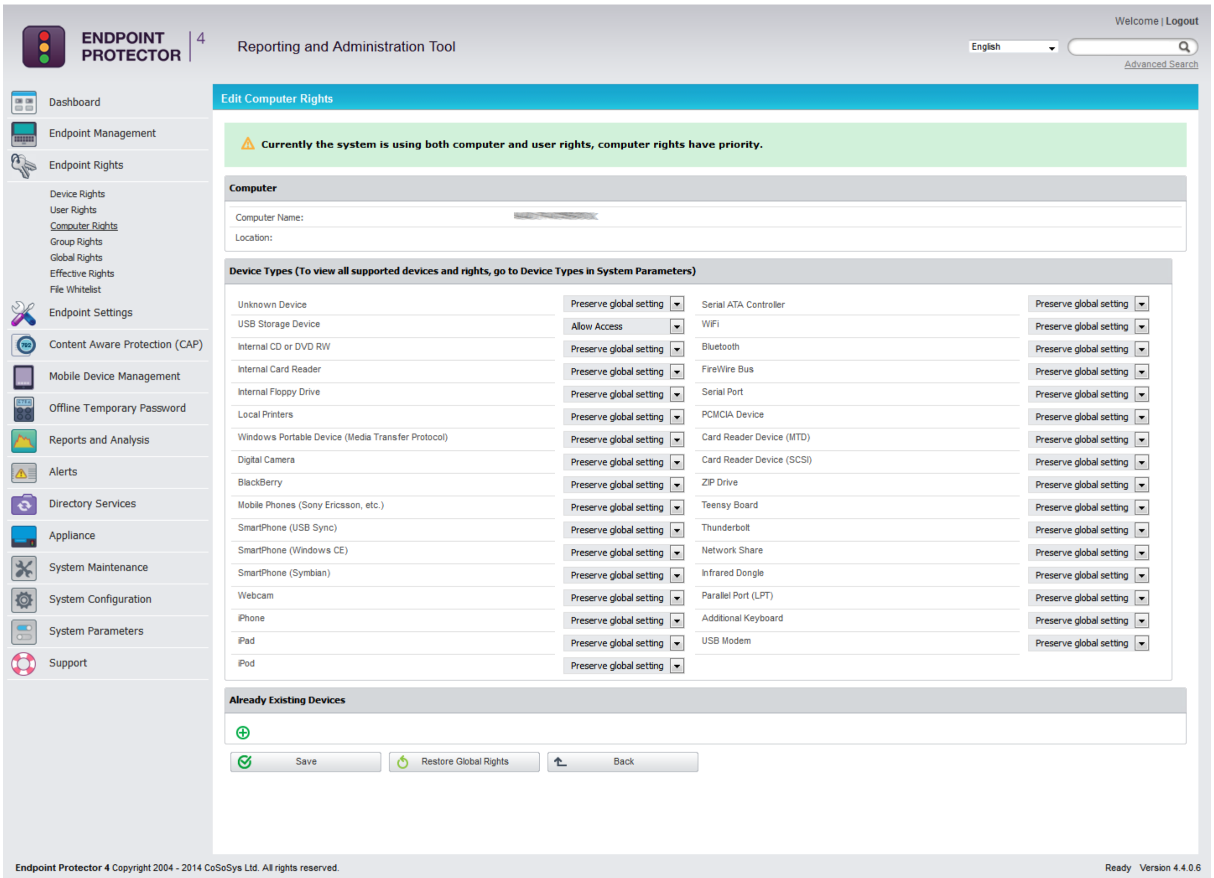
Ready Version 4.4.0.6

4.3. Computer Rights

This module will allow administrators to specify what device types and also what specific device(s) can be accessible from a single or all computers.



Currently the system is using both computer and user rights, computer rights have priority.

Computer

Computer Name: [redacted]
Location:

Device Types (To view all supported devices and rights, go to Device Types in System Parameters)

Unknown Device	Preserve global setting	Serial ATA Controller	Preserve global setting
USB Storage Device	Allow Access	WiFi	Preserve global setting
Internal CD or DVD RW	Preserve global setting	Bluetooth	Preserve global setting
Internal Card Reader	Preserve global setting	FireWire Bus	Preserve global setting
Internal Floppy Drive	Preserve global setting	Serial Port	Preserve global setting
Local Printers	Preserve global setting	PCMCIA Device	Preserve global setting
Windows Portable Device (Media Transfer Protocol)	Preserve global setting	Card Reader Device (MTD)	Preserve global setting
Digital Camera	Preserve global setting	Card Reader Device (SCSI)	Preserve global setting
BlackBerry	Preserve global setting	ZIP Drive	Preserve global setting
Mobile Phones (Sony Ericsson, etc.)	Preserve global setting	Teensy Board	Preserve global setting
SmartPhone (USB Sync)	Preserve global setting	Thunderbolt	Preserve global setting
SmartPhone (Windows CE)	Preserve global setting	Network Share	Preserve global setting
SmartPhone (Symbian)	Preserve global setting	Infrared Dongle	Preserve global setting
Webcam	Preserve global setting	Parallel Port (LPT)	Preserve global setting
iPhone	Preserve global setting	Additional Keyboard	Preserve global setting
iPad	Preserve global setting	USB Modem	Preserve global setting
iPod	Preserve global setting		

Already Existing Devices

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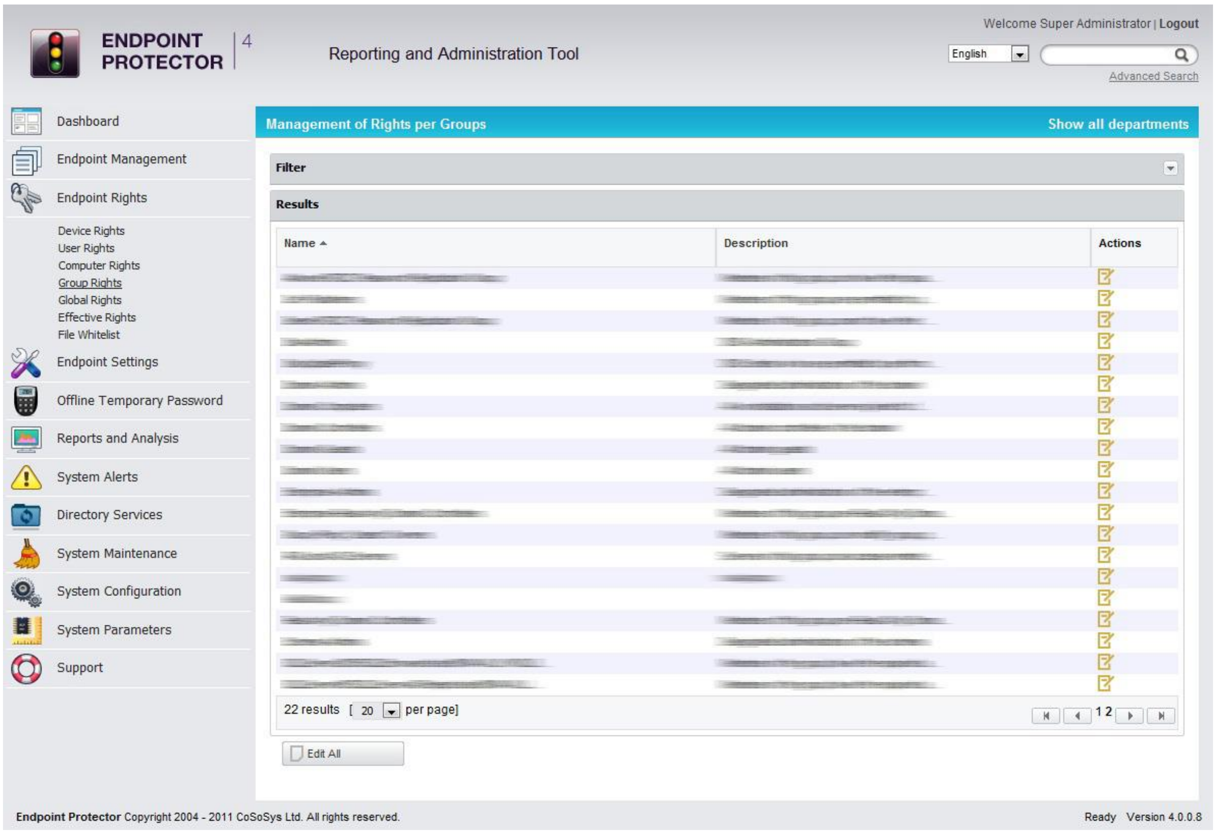
4.4. Group Rights

This module is similar to the previous one, only difference is that the rights here are applied to a group instead of a single computer.



Name ▲	Description	Actions
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	

22 results [20 per page] 1 2

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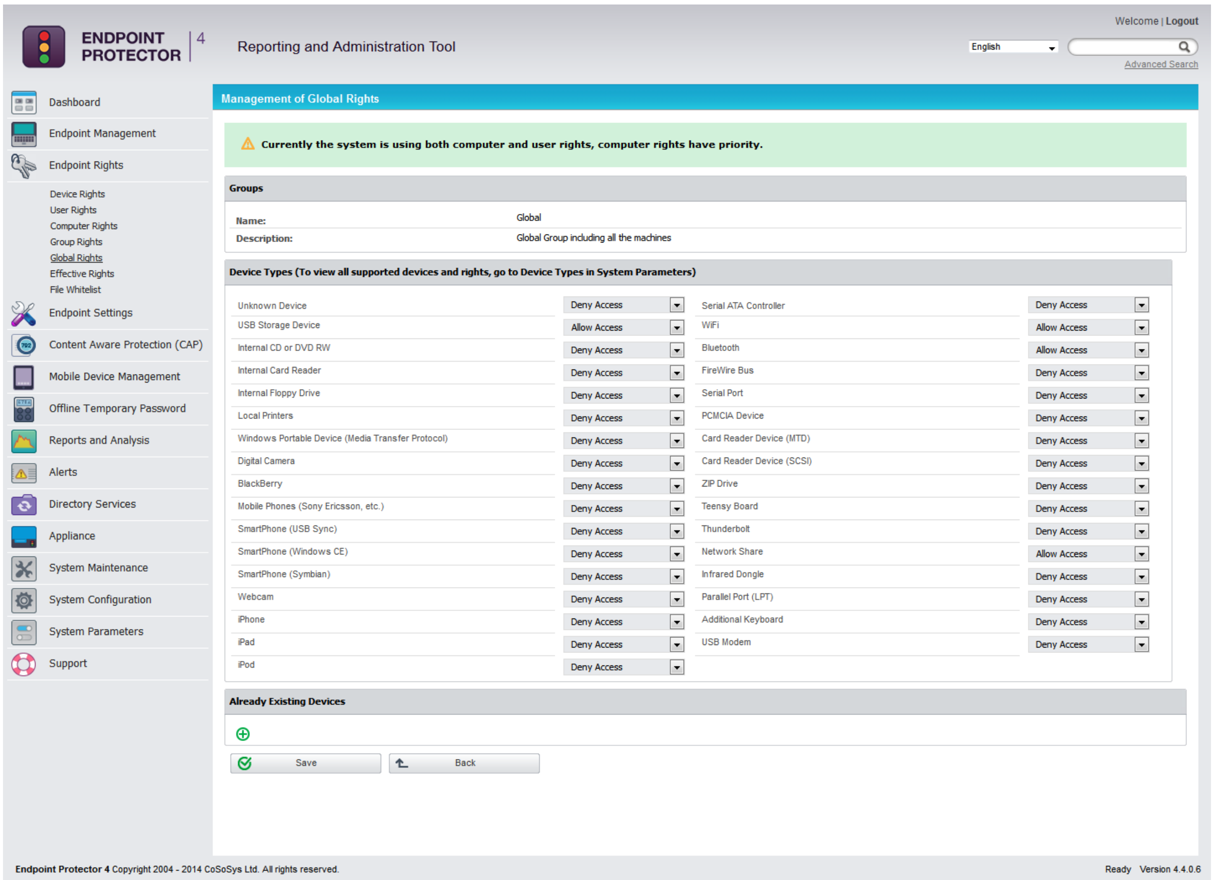
The administrator can use the "Edit All" action here to edit rights for all groups at once.

4.5. Global Rights

This module applies rights to computers in the entire system.



Management of Global Rights

⚠ **Currently the system is using both computer and user rights, computer rights have priority.**

Groups

Name:	Global
Description:	Global Group including all the machines

Device Types (To view all supported devices and rights, go to Device Types in System Parameters)

Unknown Device	Deny Access	Serial ATA Controller	Deny Access
USB Storage Device	Allow Access	WiFi	Allow Access
Internal CD or DVD RW	Deny Access	Bluetooth	Allow Access
Internal Card Reader	Deny Access	FireWire Bus	Deny Access
Internal Floppy Drive	Deny Access	Serial Port	Deny Access
Local Printers	Deny Access	PCMCIA Device	Deny Access
Windows Portable Device (Media Transfer Protocol)	Deny Access	Card Reader Device (MTD)	Deny Access
Digital Camera	Deny Access	Card Reader Device (SCSI)	Deny Access
BlackBerry	Deny Access	ZIP Drive	Deny Access
Mobile Phones (Sony Ericsson, etc.)	Deny Access	Teensy Board	Deny Access
SmartPhone (USB Sync)	Deny Access	Thunderbolt	Deny Access
SmartPhone (Windows CE)	Deny Access	Network Share	Allow Access
SmartPhone (Symbian)	Deny Access	Infrared Dongle	Deny Access
Webcam	Deny Access	Parallel Port (LPT)	Deny Access
iPhone	Deny Access	Additional Keyboard	Deny Access
iPad	Deny Access	USB Modem	Deny Access
iPod	Deny Access		

Already Existing Devices

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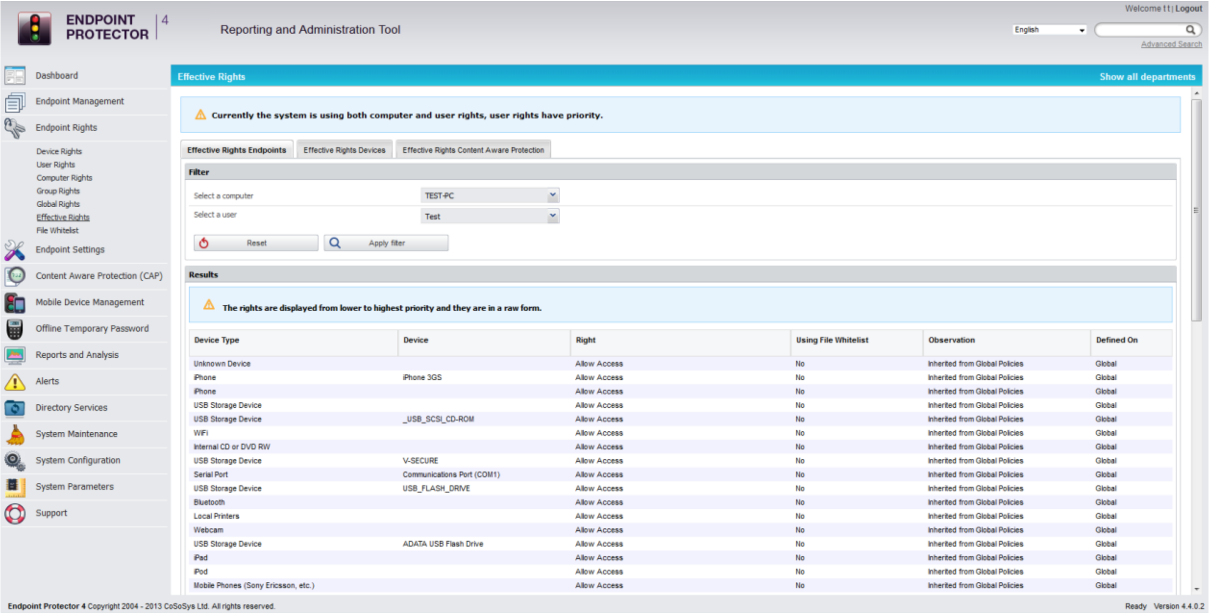
Ready Version 4.4.0.6

4.6. Effective Rights

4.6.1. Effective Rights for Endpoints

This module displays the rights applied for all device types at that moment in time for the entire system or a specific user / computer.



⚠ Currently the system is using both computer and user rights, user rights have priority.

Select a computer: TEST-PC

Select a user: Test

⚠ The rights are displayed from lower to highest priority and they are in a raw form.

Device Type	Device	Right	Using File Whitelist	Observation	Defined On
Unknown Device		Allow Access	No	Inherited from Global Policies	Global
iPhone	iPhone 3GS	Allow Access	No	Inherited from Global Policies	Global
iPhone		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	_USB_SCSI_CD-ROM	Allow Access	No	Inherited from Global Policies	Global
WiFi		Allow Access	No	Inherited from Global Policies	Global
Internal CD or DVD RW		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	V-SECURE	Allow Access	No	Inherited from Global Policies	Global
Serial Port	Communications Port (COM1)	Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	USB_FLASH_DRIVE	Allow Access	No	Inherited from Global Policies	Global
Bluetooth		Allow Access	No	Inherited from Global Policies	Global
Local Printers		Allow Access	No	Inherited from Global Policies	Global
Webcam		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	ADATA USB Flash Drive	Allow Access	No	Inherited from Global Policies	Global
iPad		Allow Access	No	Inherited from Global Policies	Global
iPod		Allow Access	No	Inherited from Global Policies	Global
Mobile Phones (Sony Ericsson, etc.)		Allow Access	No	Inherited from Global Policies	Global

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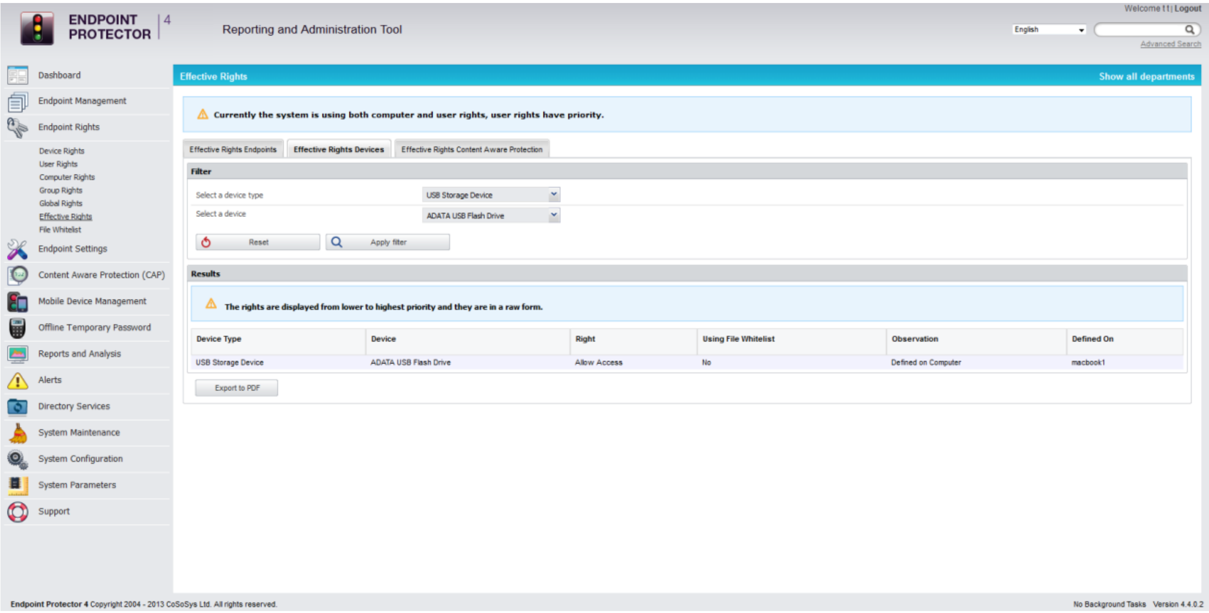
Ready Version 4.4.0.2

4.6.2. Effective Rights for Devices

This module displays the rights applied for the selected device.



⚠ Currently the system is using both computer and user rights, user rights have priority.

Select a device type: USB Storage Device

Select a device: ADATA USB Flash Drive

⚠ The rights are displayed from lower to highest priority and they are in a raw form.

Device Type	Device	Right	Using File Whitelist	Observation	Defined On
USB Storage Device	ADATA USB Flash Drive	Allow Access	No	Defined on Computer	macbook1

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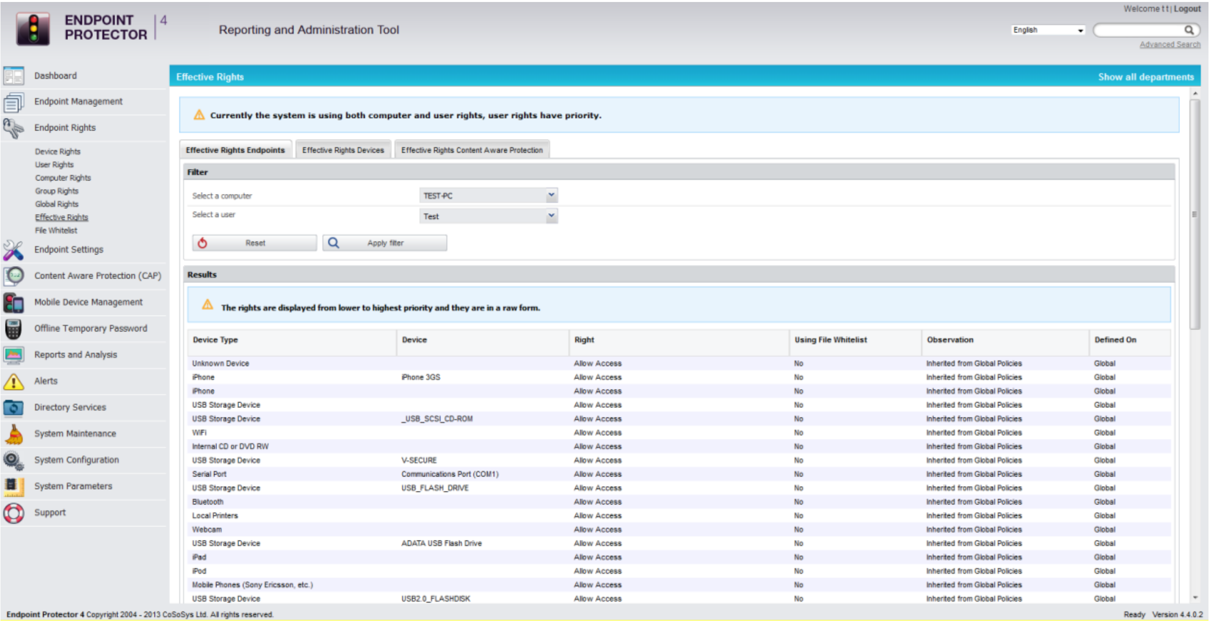
No Background Tasks Version 4.4.0.2

4.6.3. Effective Rights for Content Aware Protection

This module displays the Content Aware Protection rules on a specific user/computer at that time.



Currently the system is using both computer and user rights, user rights have priority.

Filter

Select a computer: TEST-PC

Select a user: Test

Results

The rights are displayed from lower to highest priority and they are in a raw form.

Device Type	Device	Right	Using File Whitelist	Observation	Defined On
Unknown Device		Allow Access	No	Inherited from Global Policies	Global
iPhone	iPhone 3GS	Allow Access	No	Inherited from Global Policies	Global
iPhone		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	_USB_SCSI_CD-ROM	Allow Access	No	Inherited from Global Policies	Global
WiFi		Allow Access	No	Inherited from Global Policies	Global
Internal CD or DVD RW		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	V-SECURE	Allow Access	No	Inherited from Global Policies	Global
Serial Port	Communications Port (COM1)	Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	USB_FLASH_DRIVE	Allow Access	No	Inherited from Global Policies	Global
Bluetooth		Allow Access	No	Inherited from Global Policies	Global
Local Printers		Allow Access	No	Inherited from Global Policies	Global
Webcam		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	ADATA USB Flash Drive	Allow Access	No	Inherited from Global Policies	Global
iPad		Allow Access	No	Inherited from Global Policies	Global
iPod		Allow Access	No	Inherited from Global Policies	Global
Mobile Phones (Sony Ericsson, etc.)		Allow Access	No	Inherited from Global Policies	Global
USB Storage Device	USB2.0_FLASHDISK	Allow Access	No	Inherited from Global Policies	Global

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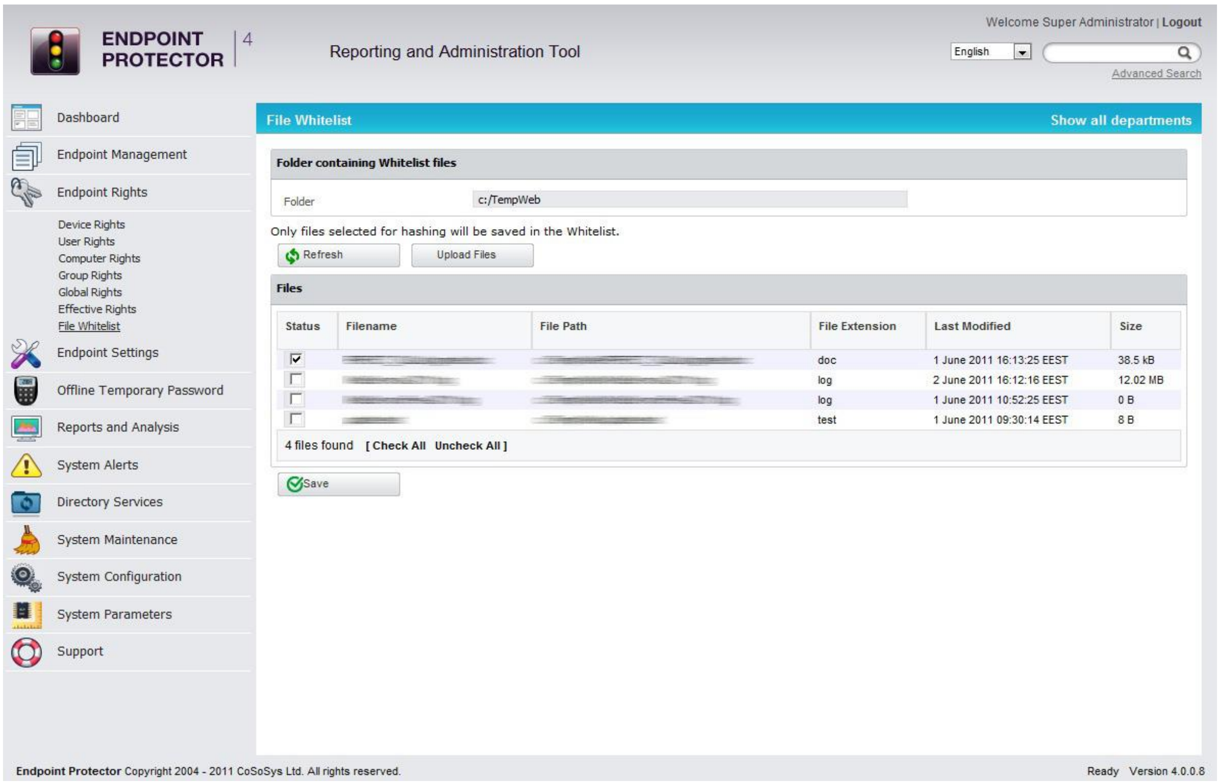
4.7. File Whitelist

This module allows the super administrator to control the transfer of only authorized files to previously authorized portable storage devices.



Folder containing Whitelist files

Folder: c:/TempWeb

Only files selected for hashing will be saved in the Whitelist.

Files

Status	Filename	File Path	File Extension	Last Modified	Size
☑	[redacted]	[redacted]	doc	1 June 2011 16:13:25 EEST	38.5 kB
☐	[redacted]	[redacted]	log	2 June 2011 16:12:16 EEST	12.02 MB
☐	[redacted]	[redacted]	log	1 June 2011 10:52:25 EEST	0 B
☐		[redacted]	test	1 June 2011 09:30:14 EEST	8 B

4 files found [Check All Uncheck All]

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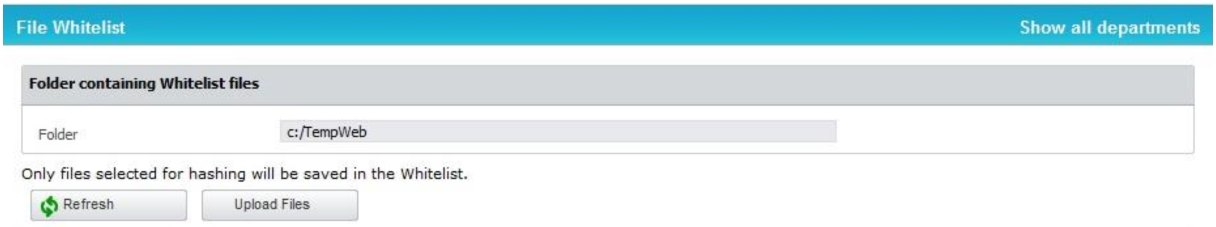
The super administrator can manage exactly what files can be copied to removable devices, and which cannot. In order to use this feature, the administrator must create a folder in which the authorized files will be kept and he must set this address in the "Folder" field.



File Whitelist

Show all departments

Folder containing Whitelist files

Folder: c:/TempWeb

Only files selected for hashing will be saved in the Whitelist.

After copying the required files into the previously created folder, he must simply press the "Refresh" button for a list to be generated.

Finally, he must check the box next to each file to enable it, and click the "Save" button. The files will be hashed and will receive permission to be copied.

This feature is only available to the Super Administrator user and cannot be modified by regular administrators.

Note!

This only works for outbound transfers. Files copied from external sources onto client (protected) computers will still be processed using the existing system policy.

5. Offline Temporary Password

5.1. Generating the Offline Temporary Password

This module allows the super administrator to generate a temporary password for:

- a specific device on a computer
- the Content Aware Protection feature on a computer
- the entire computer

It can be used when there is no network connection between the client computer and the Server.

Note!

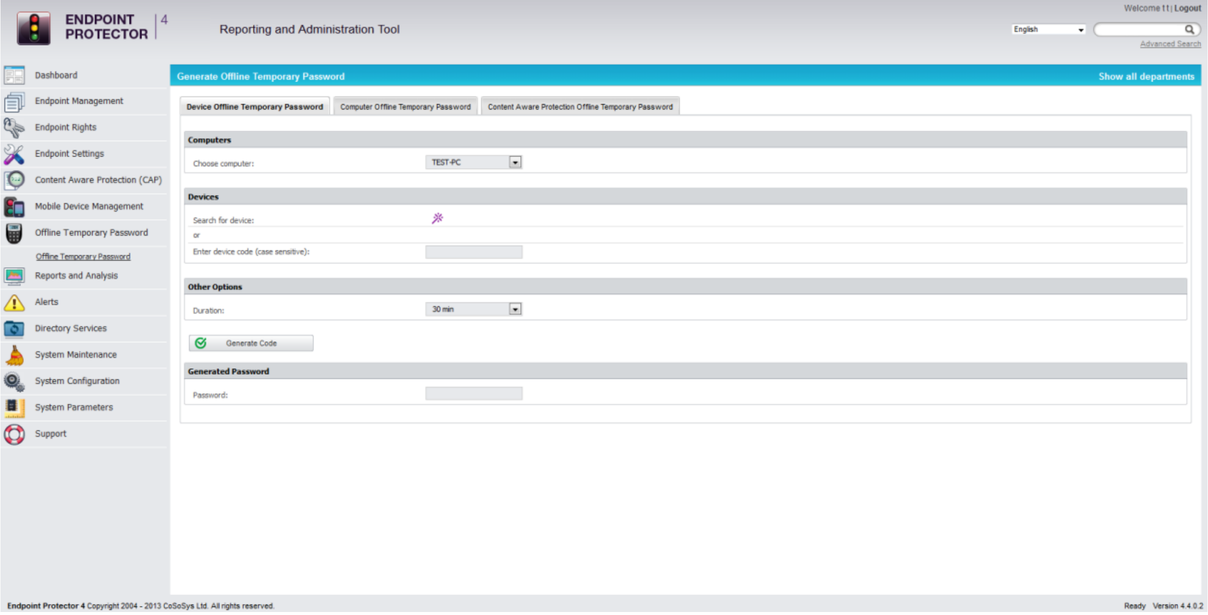
Once a device is temporarily authorized, any other rights/settings saved afterwards for this device will not take immediate effect, until the time period is passed and the connection with the Server is re-established.

A password is unique for a certain device and time period. In conclusion, the same password cannot be used for a different device or for the same device twice.

The password will give permission to the device, computer or sensitive data transfer for the specified amount of time.

The time intervals which can be selected are: 30 minutes, 1 hour, 2 hours, 4 hours, 8 hours, 1 day, 2 days, 5 days, 14 days and 30 days.

5.2. Device Offline Temporary Password


ENDPOINT PROTECTOR | 4
Reporting and Administration Tool
Welcome tt | Logout
English
Advanced Search
Dashboard
Endpoint Management
Endpoint Rights
Endpoint Settings
Content Aware Protection (CAP)
Mobile Device Management
Offline Temporary Password
Offline Temporary Password
Reports and Analysis
Alerts
Directory Services
System Maintenance
System Configuration
System Parameters
Support
Generate Offline Temporary Password
Show all departments
Device Offline Temporary Password
Computer Offline Temporary Password
Content Aware Protection Offline Temporary Password
Generate Code
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Ready Version 4.4.0.2

Computers

Choose computer: TEST-PC

Devices

Search for device:

or

Enter device code (case sensitive):

Other Options

Duration: 30 min

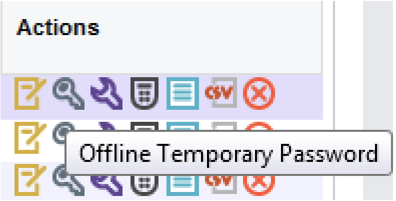
Generated Password

Password:

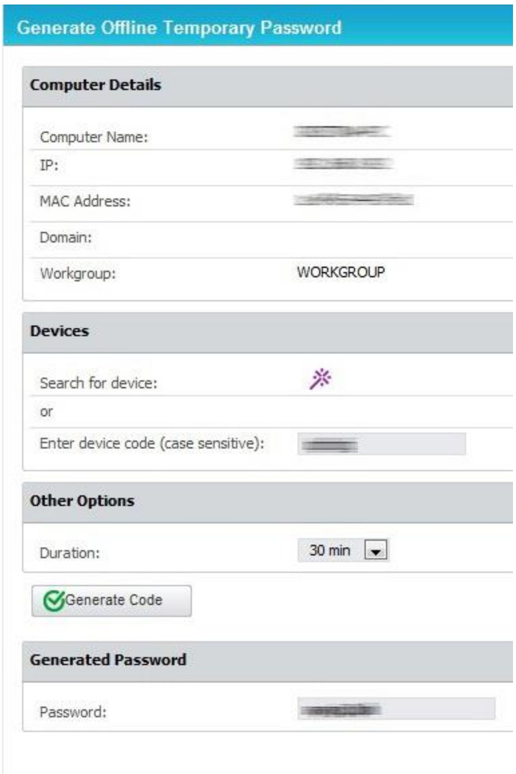
The administrator can either search for an existing device using the search wizard Search for device:
or, in case the device is not already in the database, he can introduce the device code communicated by the client user (see paragraph 5.5).

After selecting the duration, the password will be generated by clicking "Generate Code" button.

Another way to generate a password is by right clicking on a managed computer or device (from the Endpoint Management tab) and select the "Offline Temporary Password" action.



Once selected, generating a password can be done according to the details filled in, as per the image below:



Generate Offline Temporary Password

Computer Details

Computer Name:	[redacted]
IP:	[redacted]
MAC Address:	[redacted]
Domain:	
Workgroup:	WORKGROUP

Devices

Search for device:	
or	
Enter device code (case sensitive):	[redacted]

Other Options

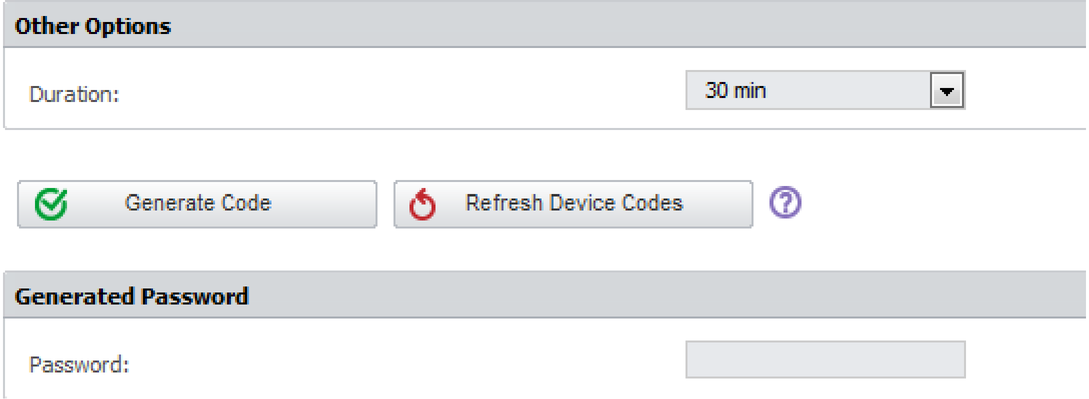
Duration:	30 min

Generated Password

Password:	[redacted]

The obtained password will be communicated to the user for temporarily allowing his specific device.

With the “Refresh Device Codes” option, the Administrator can verify the authenticity of a given device code if it was previously listed in the Endpoint Management -> Devices list.



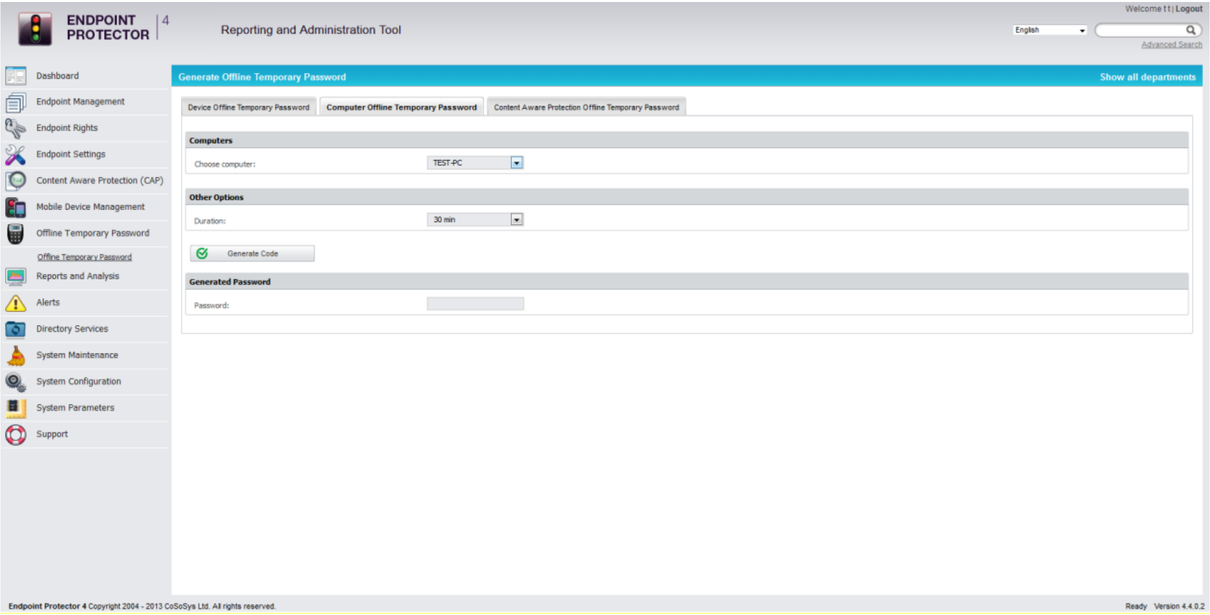
Other Options

Duration:	30 min

Generated Password

Password:	

5.3. Computer Offline Temporary Password



Computers

Choose computer: TEST-PC

Other Options

Duration: 30 min

Generated Password

Password:

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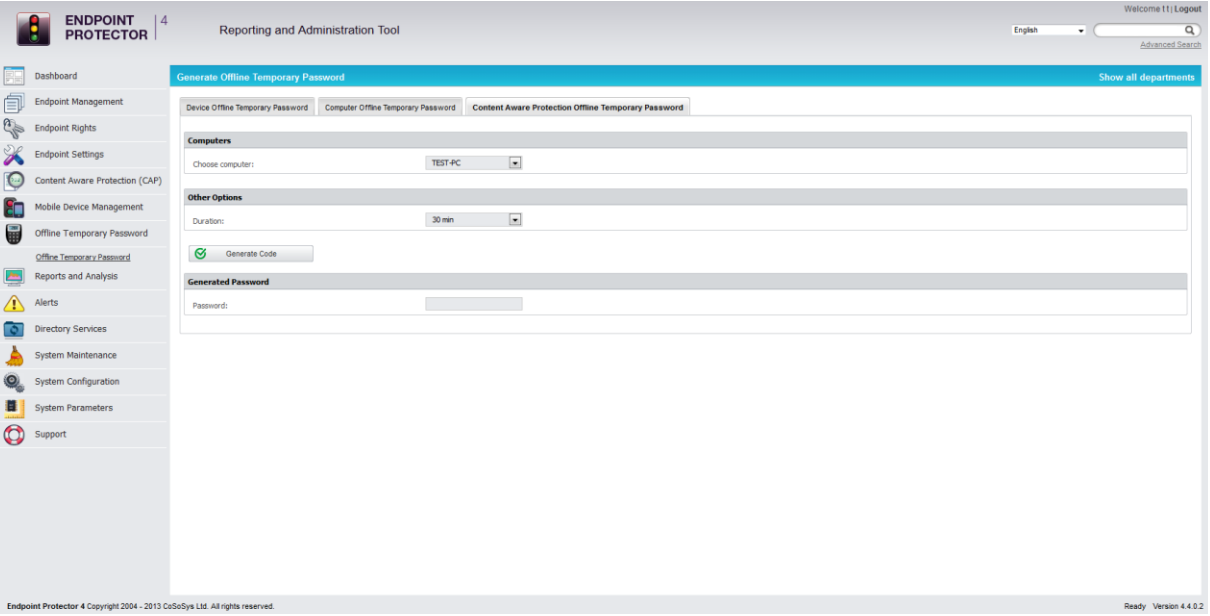
The administrator can allow the use of all the endpoints on an offline computer. He does this by generating a Computer Offline Temporary Password. After selecting the computer and duration, the password will be generated by clicking on the "Generate Code" button. The obtained password will be communicated to the user for temporarily allowing the use of all the endpoints as explained in paragraph 5.5.

5.4. Content Aware Protection Offline Temporary Password



Computers

Choose computer: TEST-PC

Other Options

Duration: 30 min

Generated Password

Password:

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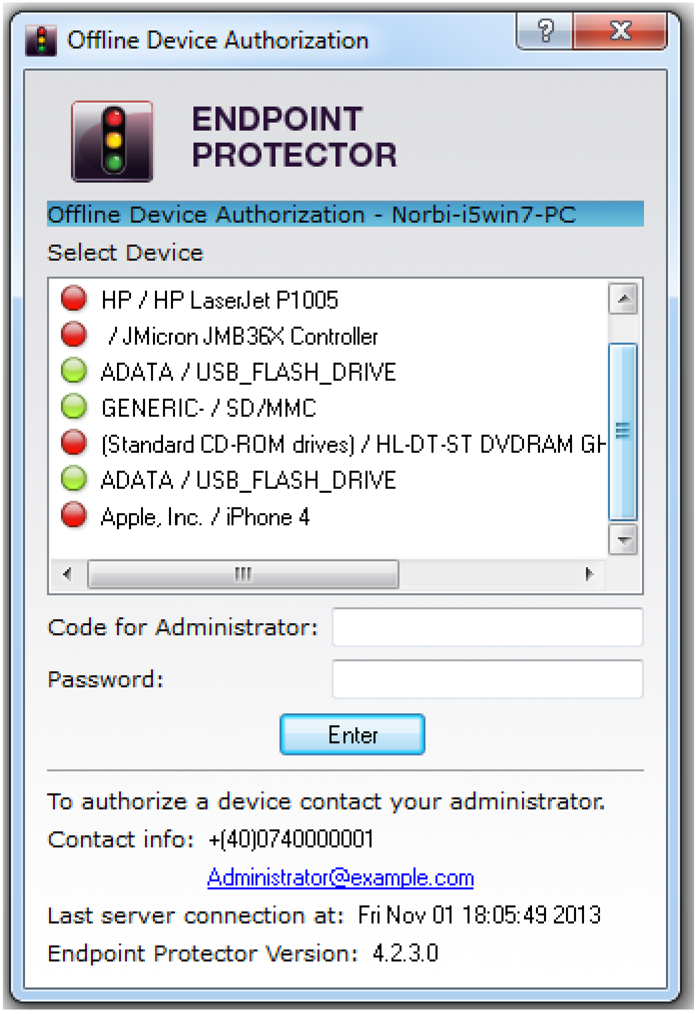
The administrator can allow the transfer of sensitive data on an offline computer. He does this by generating a Content Aware Protection Offline Temporary Password. After selecting the computer and duration, the password will be generated by clicking on "Generate Code" button. The obtained password will be communicated to the user for temporarily allowing transfer of sensitive data as explained in paragraph 5.5.

5.5. Offline Device, Computer and Content Aware Protection Authorization

In order to select a device and enter a password, the user needs to click on the Endpoint Protector icon from the system tray.

The user will select the device from the list and contact the administrator at the displayed contact information.



Offline Device Authorization

ENDPOINT PROTECTOR

Offline Device Authorization - Norbi-i5win7-PC

Select Device

- 🔴 HP / HP LaserJet P1005
- 🔴 / JMicron JMB36X Controller
- 🟢 ADATA / USB_FLASH_DRIVE
- 🟢 GENERIC- / SD/MMC
- 🔴 (Standard CD-ROM drives) / HL-DT-ST DVDRAM GH
- 🟢 ADATA / USB_FLASH_DRIVE
- 🔴 Apple, Inc. / iPhone 4

Code for Administrator:

Password:

To authorize a device contact your administrator.

Contact info: +(40)0740000001

Administrator@example.com

Last server connection at: Fri Nov 01 18:05:49 2013

Endpoint Protector Version: 4.2.3.0

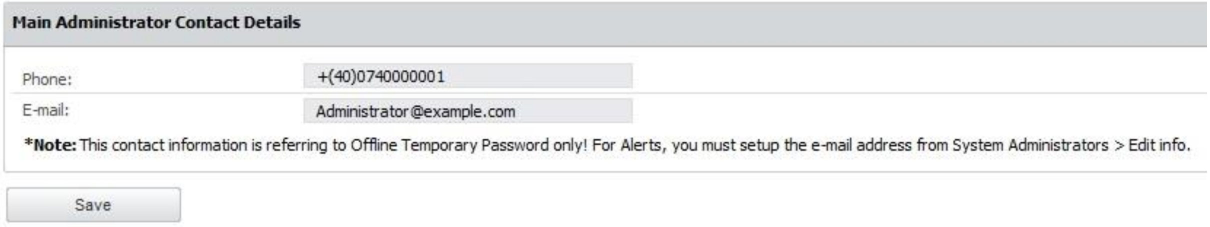
The user will tell the administrator the code for the device and the administrator will tell the user the password, after generating it on the Server (see above paragraph for password generation).

The password will be inserted in the correspondent field and applied by clicking “Enter”.

For Computer and Content Aware Protection authorization the administrator will tell the user the password he previously generated.The user will simply enter it in the „Password‟ field and apply it by clicking „Enter‟.

5.6. Setting the Administrator Contact Information

The Administrator contact information can be edited under “System Configuration” module, “System Settings” panel, edit “Main Administrator Contact Details”, then click “Save”.



Main Administrator Contact Details

Phone: +(40)0740000001

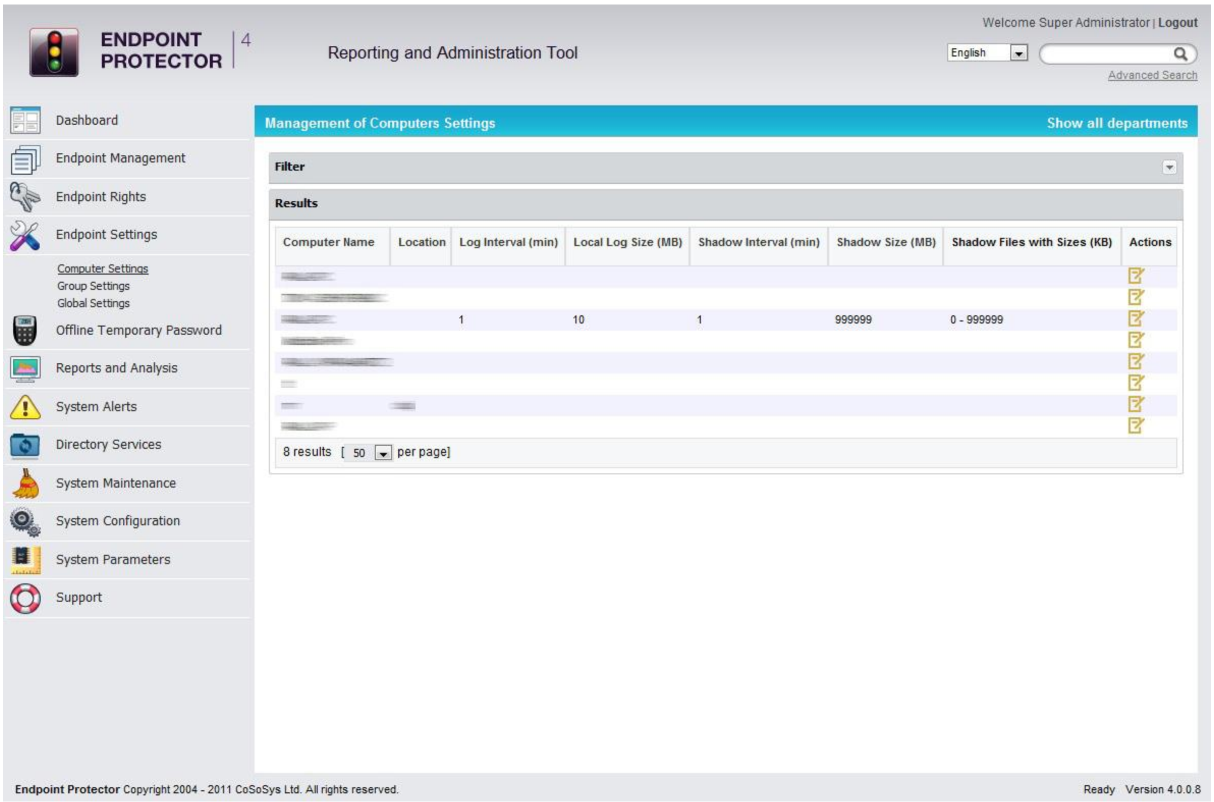
E-mail: Administrator@example.com

***Note:** This contact information is referring to Offline Temporary Password only! For Alerts, you must setup the e-mail address from System Administrators > Edit info.

6. Endpoint Settings

The settings are attributes which are inherited. Settings are designed to be applied on computers, groups and globally (to all computers). The rule of inheritance is the following (from the most important to the least important):

Computer Settings (settings applied to exactly one computer).



Computer Name	Location	Log Interval (min)	Local Log Size (MB)	Shadow Interval (min)	Shadow Size (MB)	Shadow Files with Sizes (KB)	Actions
[redacted]							✎
[redacted]							✎
[redacted]		1	10	1	999999	0 - 999999	✎
[redacted]							✎
[redacted]							✎
[redacted]							✎
[redacted]	[redacted]						✎
[redacted]							✎

8 results [50 per page]

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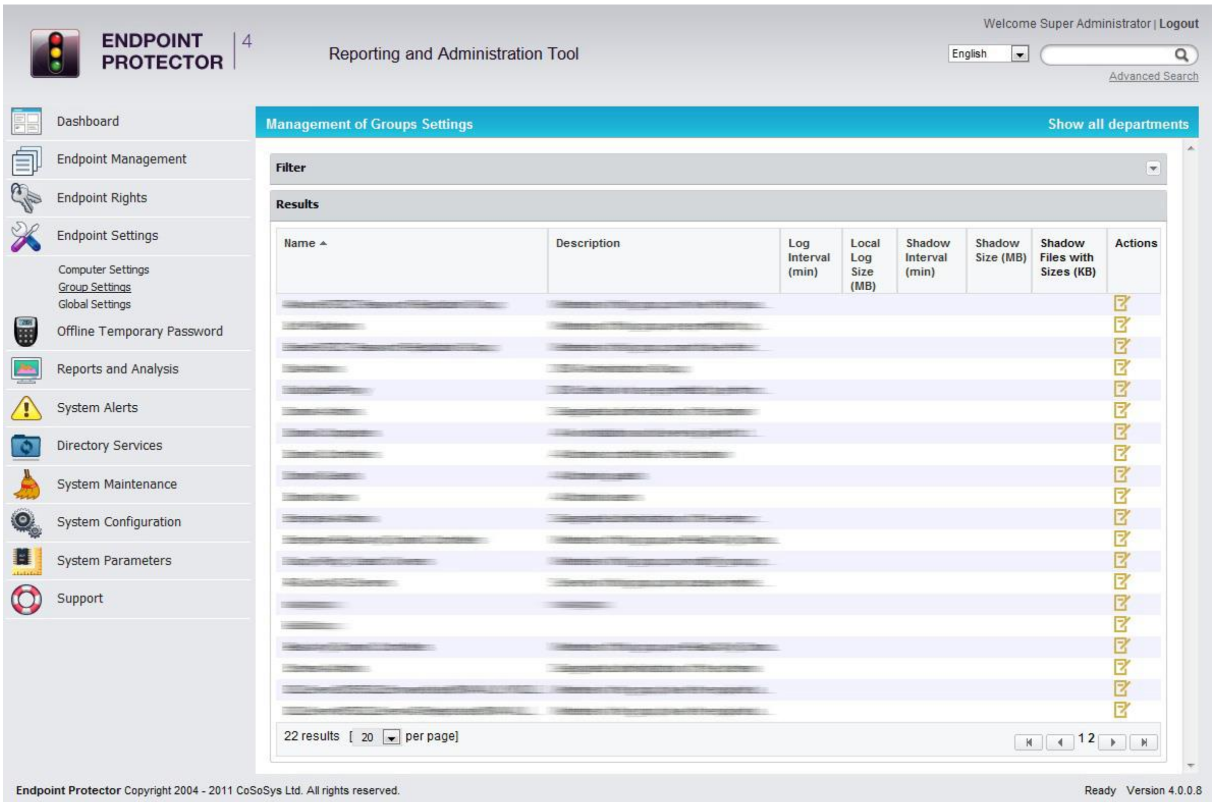
Ready Version 4.0.0.8

Group Settings (settings applied on a group).



Name ▲	Description	Log Interval (min)	Local Log Size (MB)	Shadow Interval (min)	Shadow Size (MB)	Shadow Files with Sizes (KB)	Actions
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]							✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎
[redacted]	[redacted]						✎

22 results [20 per page] 1 2

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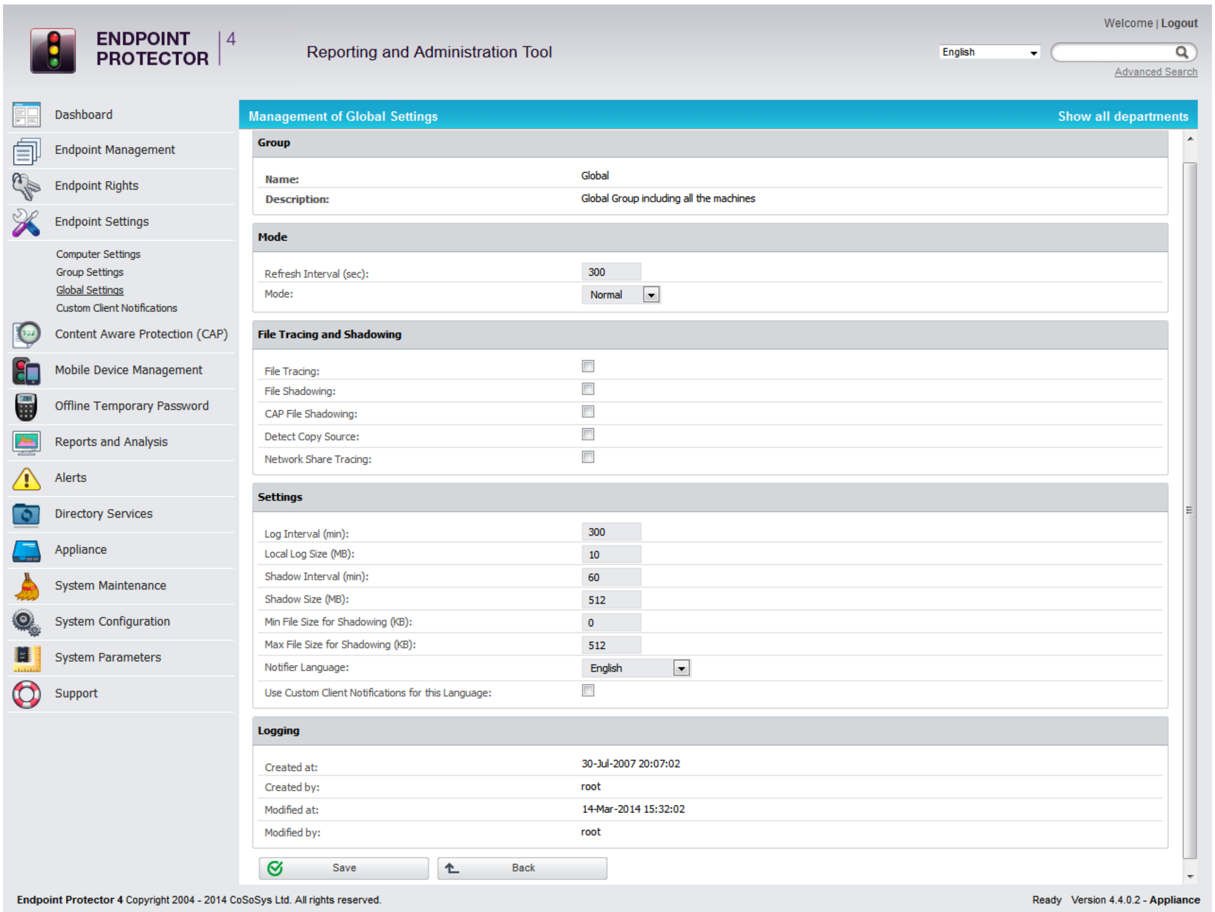
Global Settings (settings applied for all the computers).



Group

Name:	Global
Description:	Global Group including all the machines

Mode

Refresh Interval (sec):	300
Mode:	Normal

File Tracing and Shadowing

File Tracing:	□
File Shadowing:	□
CAP File Shadowing:	□
Detect Copy Source:	□
Network Share Tracing:	□

Settings

Log Interval (min):	300
Local Log Size (MB):	10
Shadow Interval (min):	60
Shadow Size (MB):	512
Min File Size for Shadowing (KB):	0
Max File Size for Shadowing (KB):	512
Notifier Language:	English
Use Custom Client Notifications for this Language:	□

Logging

Created at:	30-Jul-2007 20:07:02
Created by:	root
Modified at:	14-Mar-2014 15:32:02
Modified by:	root

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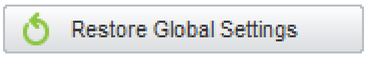
“Restore Global Settings” () button can be used to revert to a lower level of settings. Once this button is pushed the system will use the next level of settings.

Example: If the action is done on group settings, the entities in the group will use from that point onwards the global settings.

The settings and the rights for computers are sent to the client computer at an exact interval of time, set in this section.

Refresh Interval (in seconds) – represents the time interval at which the client will send a notification to the server with the intent to inform the server of its presence in the system. The server will respond by checking the settings and rights and updating them if needed, so the client can behave accordingly.

Log Upload Interval (in minutes) – represents the maximum time interval at which the client will send the locally stored log information to the server. This time interval can be smaller than the default value in case the log size is greater than the Local Log Size setting.

Local Log Size (in kilobytes) – represents the maximum size of the log which can be stored by the client on the client pc. If this value is reached then the client will send this information to the server.
This mechanism is optimal when a client computer has a lot of activity, because it will send the information very quickly to the server, so the administrator can be informed almost instantly about the activities on that computer.

Shadow Upload Interval (in minutes) – represents the maximum time interval at which the client will send the locally stored shadow information to the server.

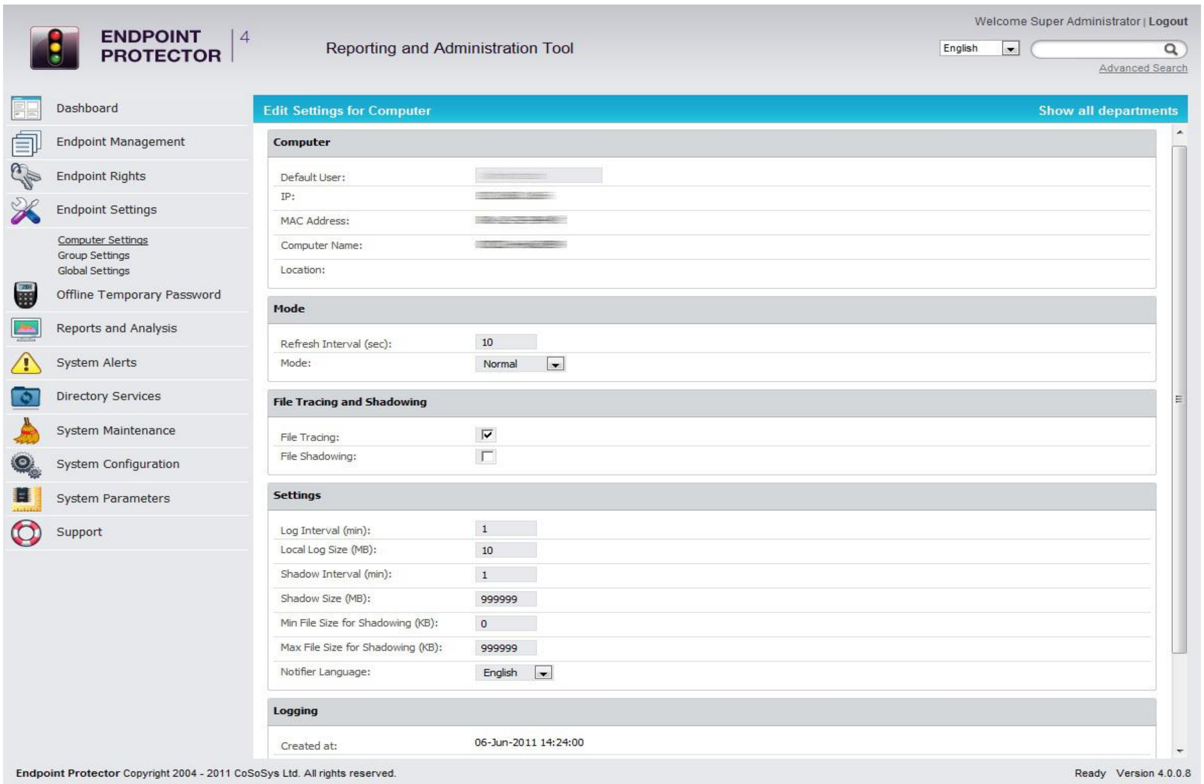
Local Shadow Size (in megabytes) – represents the maximum size of shadowed files stored by the client on a client PC. When this value is reached, the client will start overwriting existing files in order for it to not exceed the specified limit.

Minimum File Size for Shadowing (in kilobytes) – represents the minimum file size that should be shadowed. If a value is set here than files smaller in size than that value will not be shadowed.

Maximum File Size for Shadowing (in kilobytes) – represents the maximum file size that should be shadowed. If a value is set here, then files larger in size than that value will not be shadowed.

6.1. Computer Settings

This module will allow the administrator to edit the settings for each computer.



Edit Settings for Computer

Computer

Default User: [redacted]
IP: [redacted]
MAC Address: [redacted]
Computer Name: [redacted]
Location:

Mode

Refresh Interval (sec): 10
Mode: Normal

File Tracing and Shadowing

File Tracing: ☑
File Shadowing: □

Settings

Log Interval (min): 1
Local Log Size (MB): 10
Shadow Interval (min): 1
Shadow Size (MB): 999999
Min File Size for Shadowing (KB): 0
Max File Size for Shadowing (KB): 999999
Notifier Language: English

Logging

Created at: 06-Jun-2011 14:24:00

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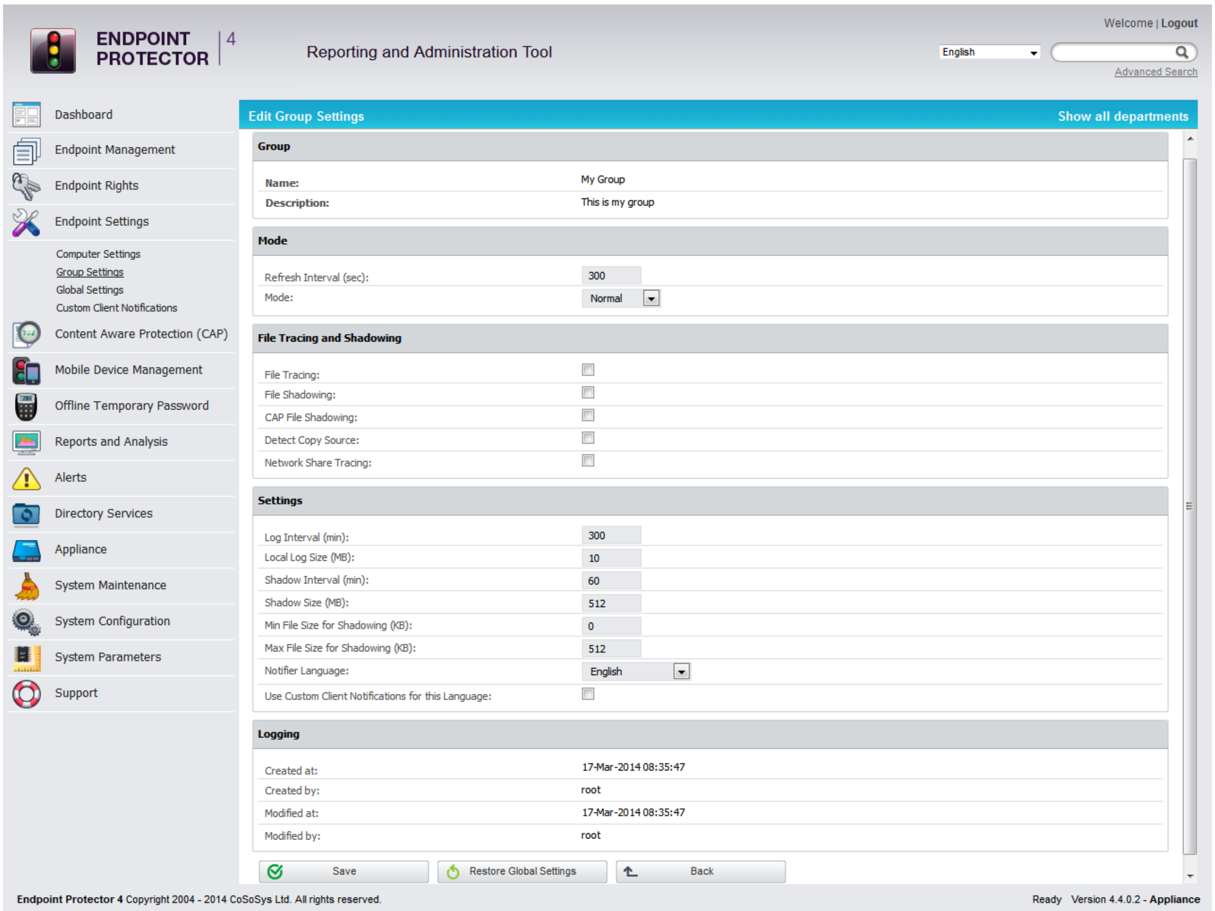
Defining custom settings for all computers is not necessary, since a computer is perfectly capable of functioning correctly without any manual settings defined. It will do this by either inheriting the settings of a group it’s in or, if not possible, the global settings, which are mandatory and exist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

6.2. Group Settings

This module will allow the administrator to edit group settings.



Edit Group Settings

Group

Name:	My Group
Description:	This is my group

Mode

Refresh Interval (sec):	300
Mode:	Normal

File Tracing and Shadowing

File Tracing:	□
File Shadowing:	□
CAP File Shadowing:	□
Detect Copy Source:	□
Network Share Tracing:	□

Settings

Log Interval (min):	300
Local Log Size (MB):	10
Shadow Interval (min):	60
Shadow Size (MB):	512
Min File Size for Shadowing (KB):	0
Max File Size for Shadowing (KB):	512
Notifier Language:	English
Use Custom Client Notifications for this Language:	□

Logging

Created at:	17-Mar-2014 08:35:47
Created by:	root
Modified at:	17-Mar-2014 08:35:47
Modified by:	root

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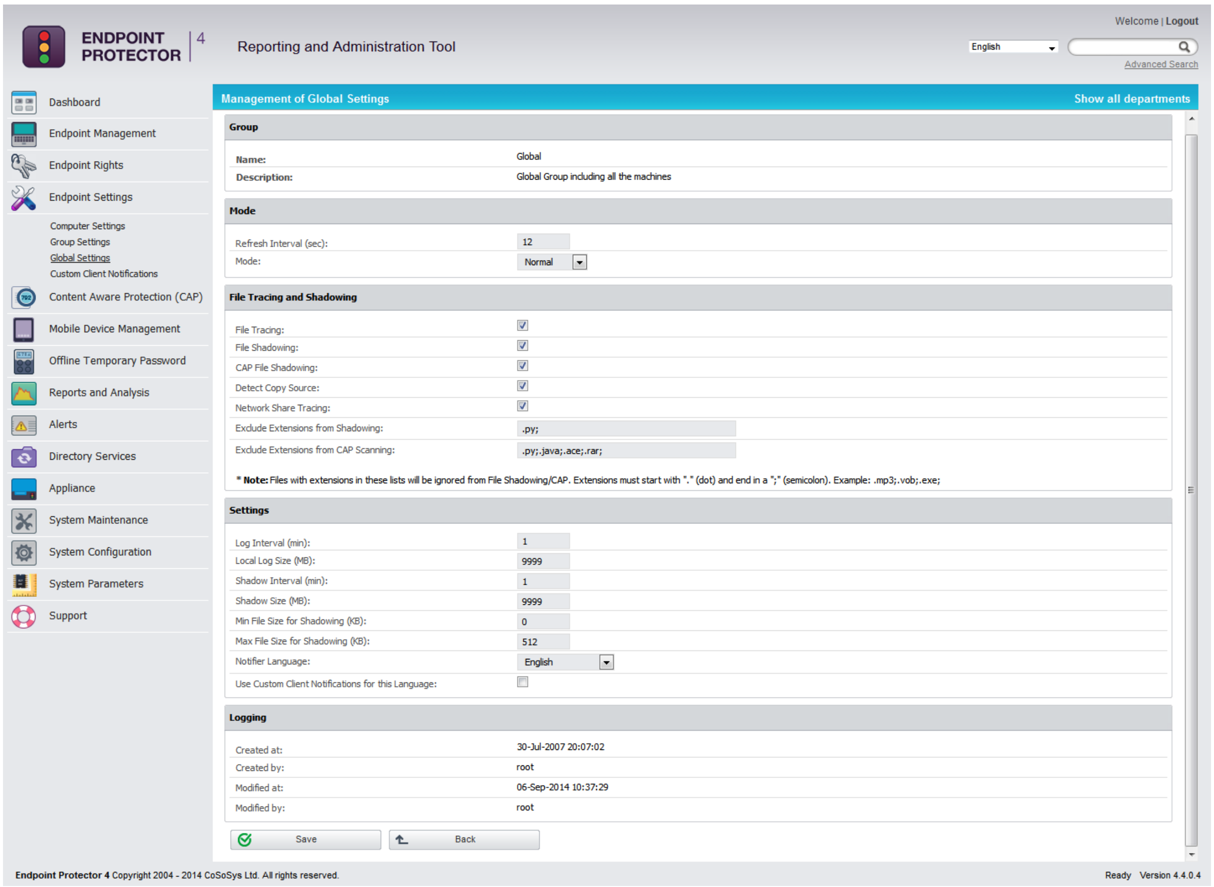
Ready Version 4.4.0.2 - Appliance

We mentioned earlier that computers can be grouped so that editing of settings should be easier and more logical.

6.3. Global Settings

This module holds the global settings, which influence all computers within the system. If there are no settings defined 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 the settings of that group.



Management of Global Settings — Show all departments

Group

Name:	Global
Description:	Global Group including all the machines

Mode

Refresh Interval (sec):	12
Mode:	Normal

File Tracing and Shadowing

File Tracing:	☑
File Shadowing:	☑
CAP File Shadowing:	☑
Detect Copy Source:	☑
Network Share Tracing:	☑
Exclude Extensions from Shadowing:	.py;
Exclude Extensions from CAP Scanning:	.py;.java;.ace;.rar;

* **Note:** Files with extensions in these lists will be ignored from File Shadowing/CAP. Extensions must start with "." (dot) and end in a ";" (semicolon). Example: .mp3;.vob;.exe;

Settings

Log Interval (min):	1
Local Log Size (MB):	9999
Shadow Interval (min):	1
Shadow Size (MB):	9999
Min File Size for Shadowing (KB):	0
Max File Size for Shadowing (KB):	512
Notifier Language:	English
Use Custom Client Notifications for this Language:	☐

Logging

Created at:	30-Jul-2007 20:07:02
Created by:	root
Modified at:	06-Sep-2014 10:37:29
Modified by:	root

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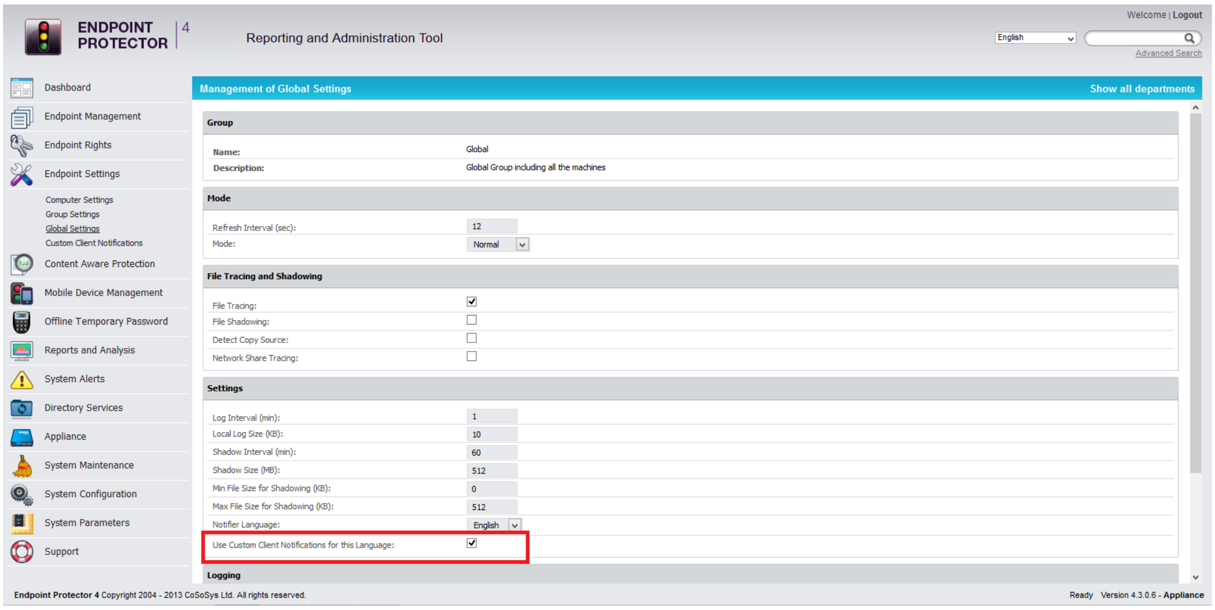
6.4. Custom Client Notifications

This feature allows the administrator to edit the notification messages that appear from the Agent of Endpoint Protector, for all available languages. Custom Client Notifications can be globally enabled from the Endpoint Settings tab. It can be individually checked on computers or groups.



Management of Global Settings

Group

Name: Global
Description: Global Group including all the machines

Mode

Refresh Interval (sec): 12
Mode: Normal

File Tracing and Shadowing

File Tracing: ☑
File Shadowing: ☐
Detect Copy Source: ☐
Network Share Tracing: ☐

Settings

Log Interval (min): 1
Local Log Size (KB): 10
Shadow Interval (min): 60
Shadow Size (MB): 512
Min File Size for Shadowing (KB): 0
Max File Size for Shadowing (KB): 512
Notifier Language: English
Use Custom Client Notifications for this Language: ☑

Logging

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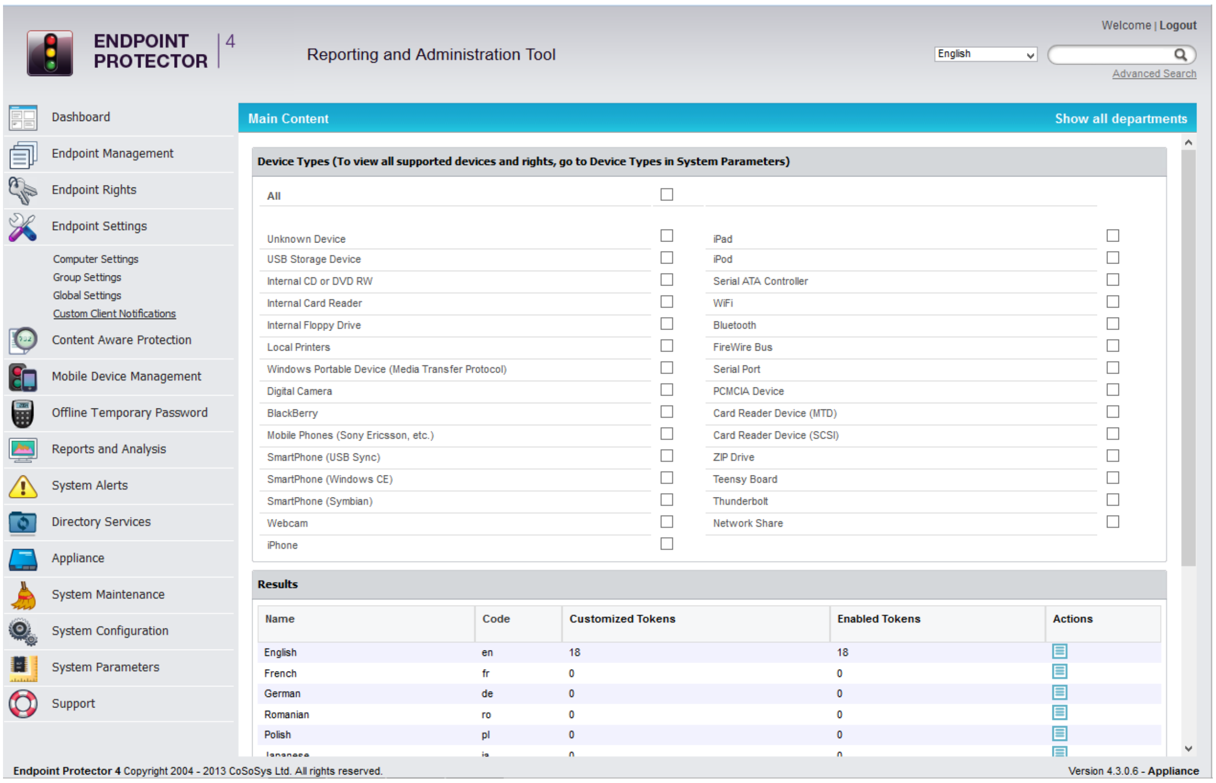
Ready Version 4.3.0.6 - **Appliance**

The administrator will have three options for each device type in part: to leave the default messages, to customize the message or to hide the message.

The administrator can select from the Device Types fields the devices types on which he wants the settings to be applied. The editable languages are available in Results section.



Device Types (To view all supported devices and rights, go to Device Types in System Parameters)

All	□		
Unknown Device	□	iPad	□
USB Storage Device	□	iPod	□
Internal CD or DVD RW	□	Serial ATA Controller	□
Internal Card Reader	□	WiFi	□
Internal Floppy Drive	□	Bluetooth	□
Local Printers	□	FireWire Bus	□
Windows Portable Device (Media Transfer Protocol)	□	Serial Port	□
Digital Camera	□	PCMCIA Device	□
BlackBerry	□	Card Reader Device (MTD)	□
Mobile Phones (Sony Ericsson, etc.)	□	Card Reader Device (SCSI)	□
SmartPhone (USB Sync)	□	ZIP Drive	□
SmartPhone (Windows CE)	□	Teensy Board	□
SmartPhone (Symbian)	□	Thunderbolt	□
Webcam	□	Network Share	□
iPhone	□		

Results

Name	Code	Customized Tokens	Enabled Tokens	Actions
English	en	18	18	☰
French	fr	0	0	☰
German	de	0	0	☰
Romanian	ro	0	0	☰
Polish	pl	0	0	☰
Japanese	ja	0	0	☰

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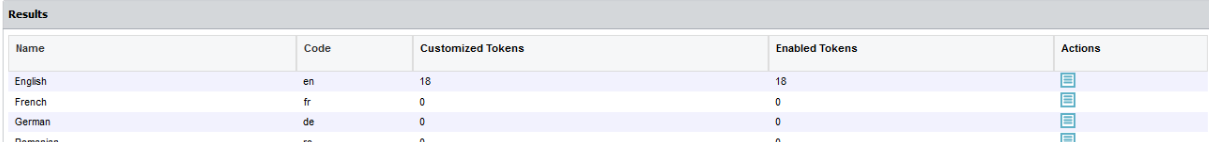
Version 4.3.0.6 - **Appliance**

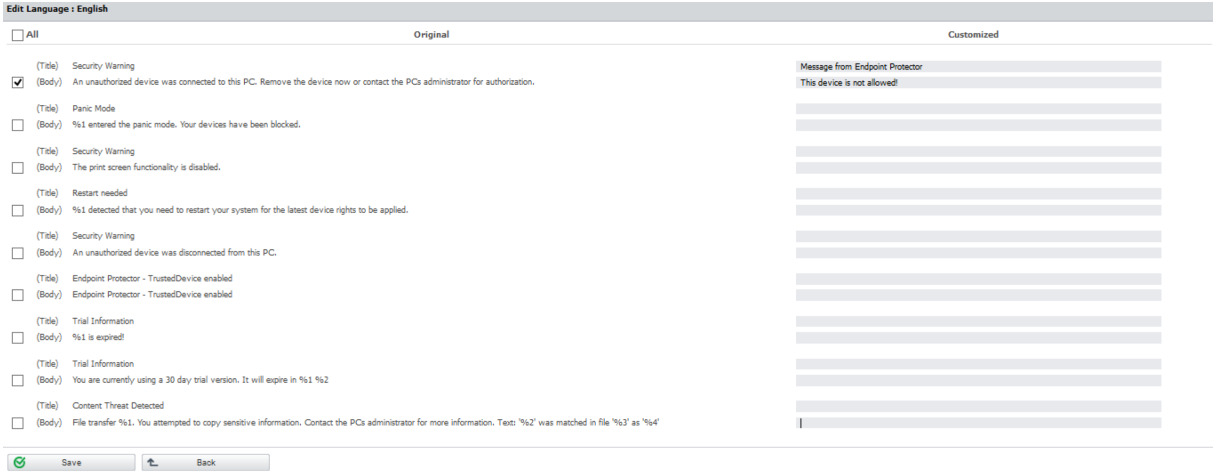
To edit the messages for a specific language, click on Actions.



Results

Name	Code	Customized Tokens	Enabled Tokens	Actions
English	en	18	18	☰
French	fr	0	0	☰
German	de	0	0	☰
Romanian	ro	0	0	☰

In this example below we set the message as “Message from Endpoint Protector – This device is not allowed!”



Edit Language : English

☐ All		Original	Customized
	(Title)	Security Warning	Message from Endpoint Protector
☑	(Body)	An unauthorized device was connected to this PC. Remove the device now or contact the PCs administrator for authorization.	This device is not allowed!
	(Title)	Panic Mode	
☐	(Body)	%1 entered the panic mode. Your devices have been blocked.	
	(Title)	Security Warning	
☐	(Body)	The print screen functionality is disabled.	
	(Title)	Restart needed	
☐	(Body)	%1 detected that you need to restart your system for the latest device rights to be applied.	
	(Title)	Security Warning	
☐	(Body)	An unauthorized device was disconnected from this PC.	
	(Title)	Endpoint Protector - TrustedDevice enabled	
☐	(Body)	Endpoint Protector - TrustedDevice enabled	
	(Title)	Trial Information	
☐	(Body)	%1 is expired!	
	(Title)	Trial Information	
☐	(Body)	You are currently using a 30 day trial version. It will expire in %1 %2	
	(Title)	Content Threat Detected	
☐	(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'	

Some administrators might want not to display some notifications, while showing others. This can be done by (not) ticking the box for the specific message.

6.5. File Tracing

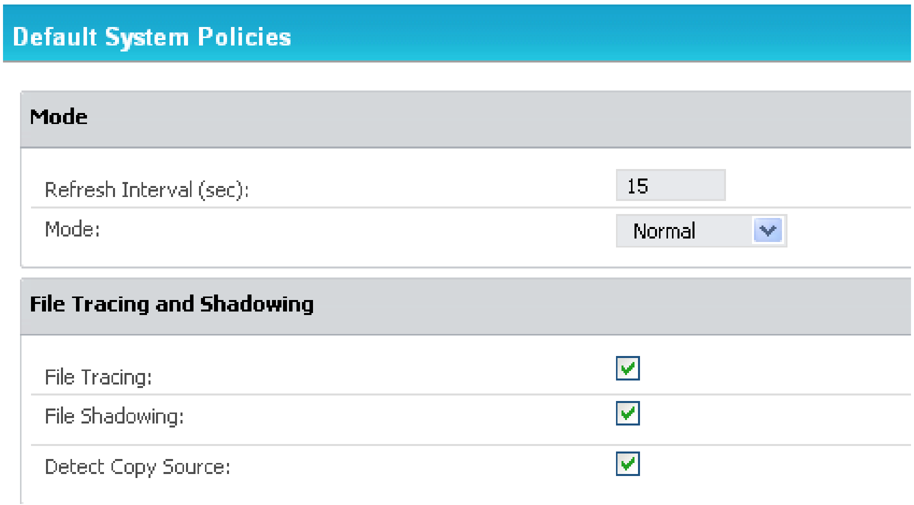
Endpoint Protector's file tracing feature allows monitoring of data traffic between protected clients and portable devices. It shows what files were copied, to which location, at what time and by which user. It also shows other actions that took place, such as file renamed, deleted, accessed, modified, etc.

Additionally, by selecting the option Detect Copy Source, the original file path for copied files to / from removable storage devices will be visible in Reports & Analysis > File Tracing under the File Name tab.
(ex. C:/Users/Me/Myfile.txt ->F:/Myfile.txt).

It is an essential feature for administrators since they can keep track of all data that's being transferred to and from devices. All traffic is recorded and logged for later auditing.

Administrators have the ability to enable or disable the file tracing feature. This can be done from within the Endpoint Protector Administration and Reporting Tool.

Access the "System Configuration" module and select "System Policies".



Default System Policies

Mode

Refresh Interval (sec): 15
Mode: Normal

File Tracing and Shadowing

File Tracing: ☑
File Shadowing: ☑
Detect Copy Source: ☑

If you wish to disable the file tracing feature, simply uncheck the box next to it and click "Save".

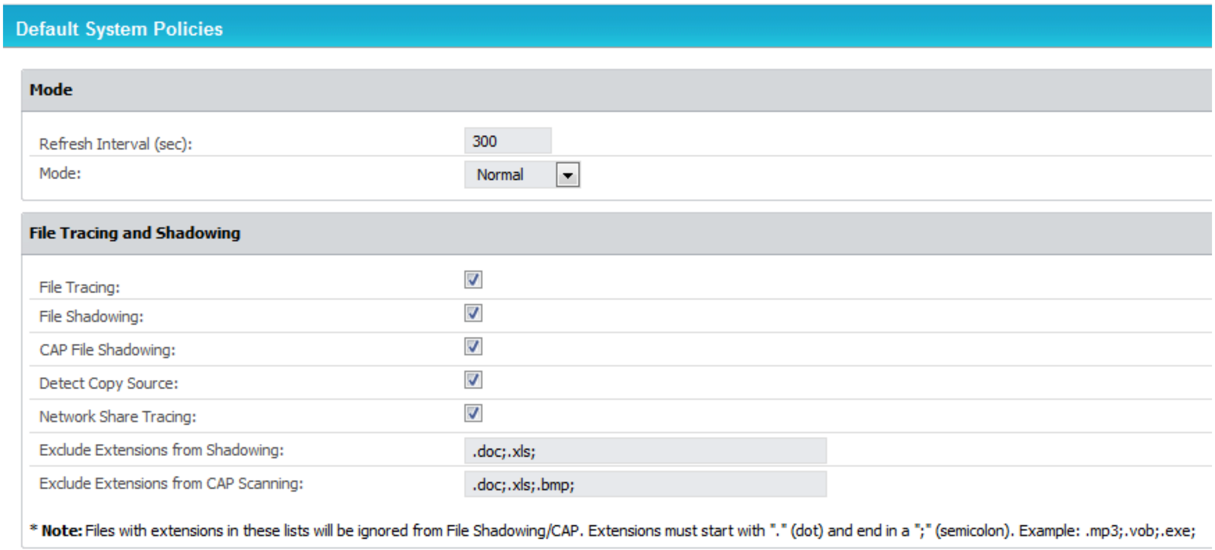
Note!

The option Detect Copy Source works only if File Tracing is activated.

6.6. File Shadowing

Endpoint Protector's File Shadowing feature works simultaneously together with 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.

Same as File Tracing, Shadowing of files can be turned on or off, from the "System Configuration -> System Policies" module of the Endpoint Protector Reporting and Administration Tool. Please note, however, that this feature cannot be used without the File Tracing feature.



Default System Policies

Mode

Refresh Interval (sec):	300
Mode:	Normal

File Tracing and Shadowing

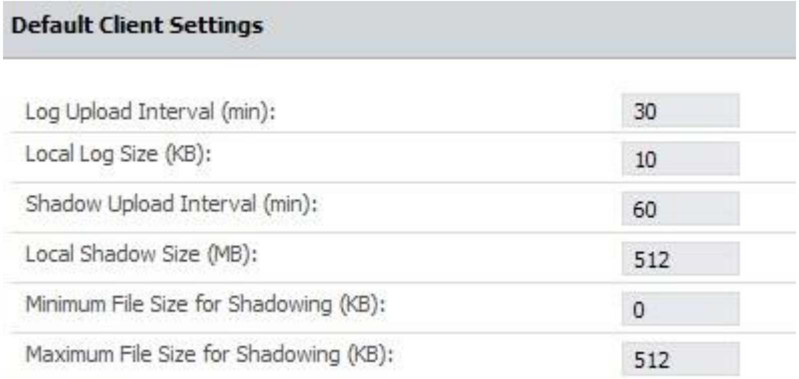
File Tracing:	☑
File Shadowing:	☑
CAP File Shadowing:	☑
Detect Copy Source:	☑
Network Share Tracing:	☑
Exclude Extensions from Shadowing:	.doc;.xls;
Exclude Extensions from CAP Scanning:	.doc;.xls;.bmp;

* **Note:** Files with extensions in these lists will be ignored from File Shadowing/CAP. Extensions must start with "." (dot) and end in a ";" (semicolon). Example: .mp3;.vob;.exe;

Note!

File Shadowing can be disabled for specific file types using the "Exclude Extensions from Shadowing" option.

Advanced settings such as minimum file size to be shadowed and shadowing upload interval can also be configured in this section.



Default Client Settings

Log Upload Interval (min):	30
Local Log Size (KB):	10
Shadow Upload Interval (min):	60
Local Shadow Size (MB):	512
Minimum File Size for Shadowing (KB):	0
Maximum File Size for Shadowing (KB):	512

Refresh Interval (in seconds) – Represents the time interval at which the client will send a notification to the server with the intent to inform the server of its presence in the system. The server will respond by checking the settings and rights and updating them if needed, so the client can behave accordingly.

Log Upload Interval (in minutes) – Represents the maximum time interval at which the client will send the locally stored log information to the server. This time interval can be smaller than the default value in case the log size is greater than the Local Log Size setting.

Local Log Size (in kilobytes) – represents the maximum size of the log which can be stored by the client on the client pc. If this value is reached then the client will send this information to the server.
This mechanism is optimal when a client computer has a lot of activity, because it will send the information very quickly to the server, so the administrator can be informed almost instantly about the activities on that computer.

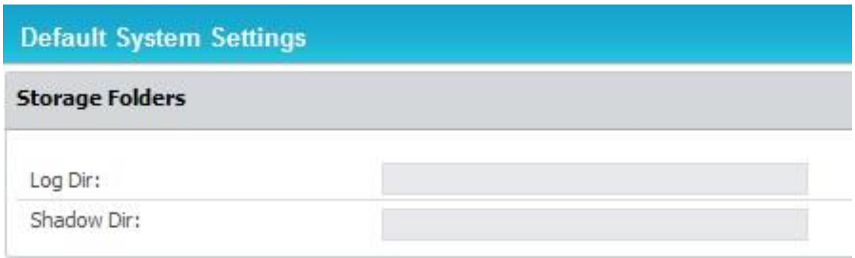
Shadow Upload Interval (in minutes) – Represents the maximum time interval at which the client will send the locally stored shadow information to the server.

Local Shadow Size (in MB) – Represents the maximum size of shadowed files stored by the client on a client PC. When this value is reached, the client will start overwriting existing files in order for it to not exceed the specified limit.

Minimum File Size for Shadowing (in KB) – Represents the minimum file size that should be shadowed. If a value is set here than files smaller in size than that value will not be shadowed.

Maximum File Size for Shadowing (in KB) – Represents the maximum file size that should be shadowed. If a value is set here, then files larger in size than that value will not be shadowed.

The shadow directory can be selected from the “System Configuration” module under the “System Settings” tab.



Default System Settings

Storage Folders

Log Dir:

Shadow Dir:

Since shadow size can reach large amounts, we strongly recommend that a separate, large capacity Hard Disk is used for shadow storage.

Note!

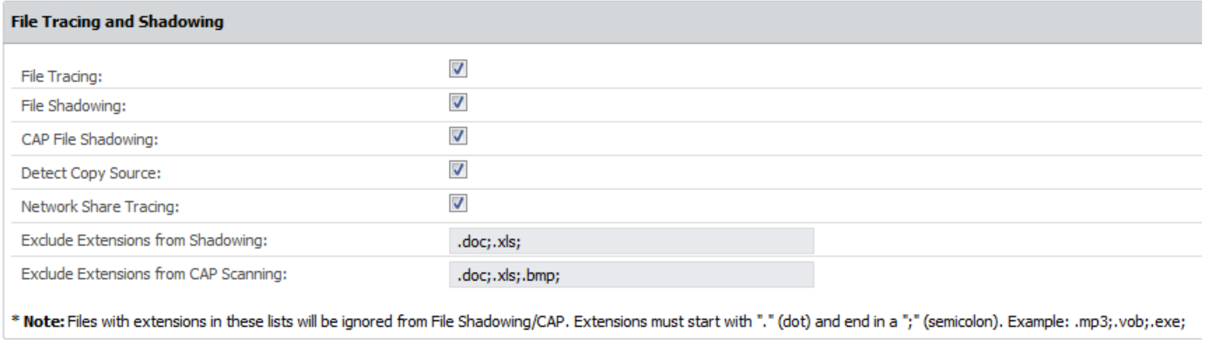
Shadowing Files can be delayed due to network traffic and Endpoint Protector Settings for different computers or file sizes. Shadowed files are usually available after a few minutes.

For large base installations (such as 250-1000 endpoints) we strongly advise to activate File Shadowing for up to 15% of your appliance (virtual or hardware) total endpoint capacity. (E.g. for an A1000 Hardware Appliance, File Shadowing should be set to maximum of 150 endpoints for optimal performance).

6.7. CAP File Shadowing

Endpoint Protector's File Shadowing feature works together with Content Aware Protection, creating exact copies of confidential files transferred by users. The creation of shadow copies can be triggered by the following events: content threat detected, content threat blocked.

CAP Shadowing can be turned on or off, from the "System Configuration -> System Policies" module of the Endpoint Protector Reporting and Administration Tool. Please note, however, that this feature is of no use without the Content Aware Protection feature.



File Tracing and Shadowing

File Tracing:	☑
File Shadowing:	☑
CAP File Shadowing:	☑
Detect Copy Source:	☑
Network Share Tracing:	☑
Exclude Extensions from Shadowing:	.doc;.xls;
Exclude Extensions from CAP Scanning:	.doc;.xls;.bmp;

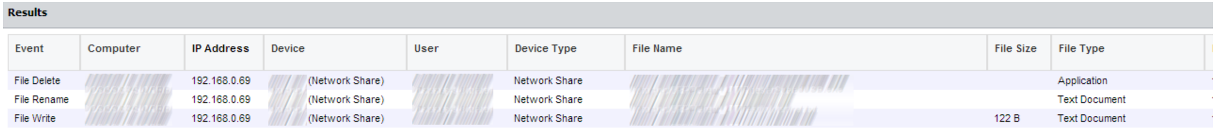
* **Note:** Files with extensions in these lists will be ignored from File Shadowing/CAP. Extensions must start with "." (dot) and end in a ";" (semicolon). Example: .mp3;.vob;.exe;

Note!

CAP File Shadowing can be disabled for specific file types using the "Exclude Extensions from CAP Scanning" option.

6.8. Network Share Tracing

Endpoint Protector's network share tracing feature allows monitoring of data traffic between protected clients and other computers on the local network they are connected to. It shows what files were copied, to which location, at what time and by which user. It also shows other actions that took place, such as file written, renamed and deleted. The logs will be available in the "Reports & Analysis > File Tracing" Tab. Under the "device name" the computer on the network that receives the file will appear, followed in brackets by "Network Share" information.



Results

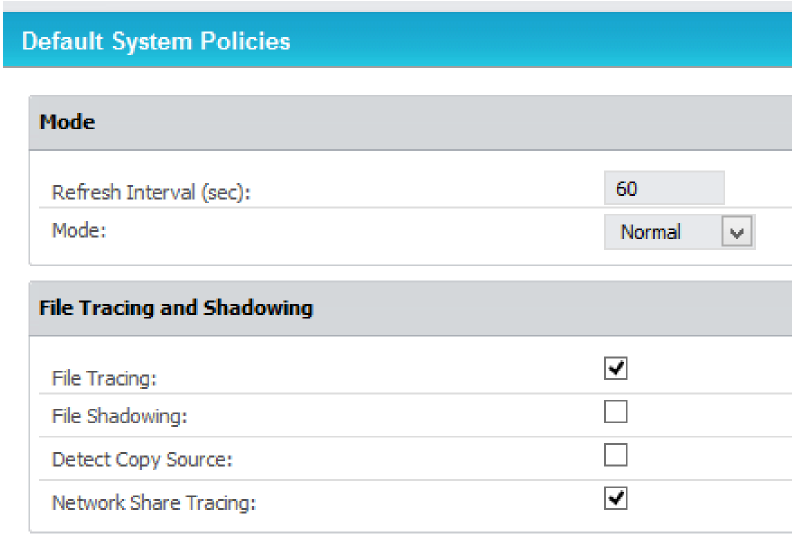
Event	Computer	IP Address	Device	User	Device Type	File Name	File Size	File Type
File Delete	[redacted]	192.168.0.69	[redacted] (Network Share)	[redacted]	Network Share	[redacted]		Application
File Rename	[redacted]	192.168.0.69	[redacted] (Network Share)	[redacted]	Network Share	[redacted]		Text Document
File Write	[redacted]	192.168.0.69	[redacted] (Network Share)	[redacted]	Network Share	[redacted]	122 B	Text Document

Additionally, by selecting the option Detect Copy Source, the original file path for copied files to / from removable storage devices will be visible in Reports & Analysis > File Tracing.

Administrators have the ability to enable or disable the file tracing feature. This can be done within the Endpoint Protector Administration and Reporting Tool.

Access the "System Configuration" module and select "System Policies".

In order to activate Network Share Tracing you need as a precondition to have also File Tracing enabled.



Default System Policies

Mode

Refresh Interval (sec): 60

Mode: Normal

File Tracing and Shadowing

File Tracing: ☑

File Shadowing: □

Detect Copy Source: □

Network Share Tracing: ☑

If you wish to disable the network share tracing feature, simply uncheck the box next to it and click "Save".

Note!

For large base installations (such as 250-1000 endpoints) we strongly advise to activate Network Share Tracing for up to 15% of your appliance (virtual or hardware) total endpoint capacity. (E.g. for an A1000 Hardware Appliance, Network Share Tracing should be set to maximum of 150 endpoints for optimal performance).

The option Network Share Tracing works only if File Tracing is activated as well. However, Network Share Tracing should be used at a minimum level for optimal performance.

7. Content Aware Protection

This module allows the administrator to setup 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:

- Personally 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, Dinners Club, bank account numbers etc.
- Confidential files: sales and marketing reports, technical documents, accounting documents, customer databases etc.

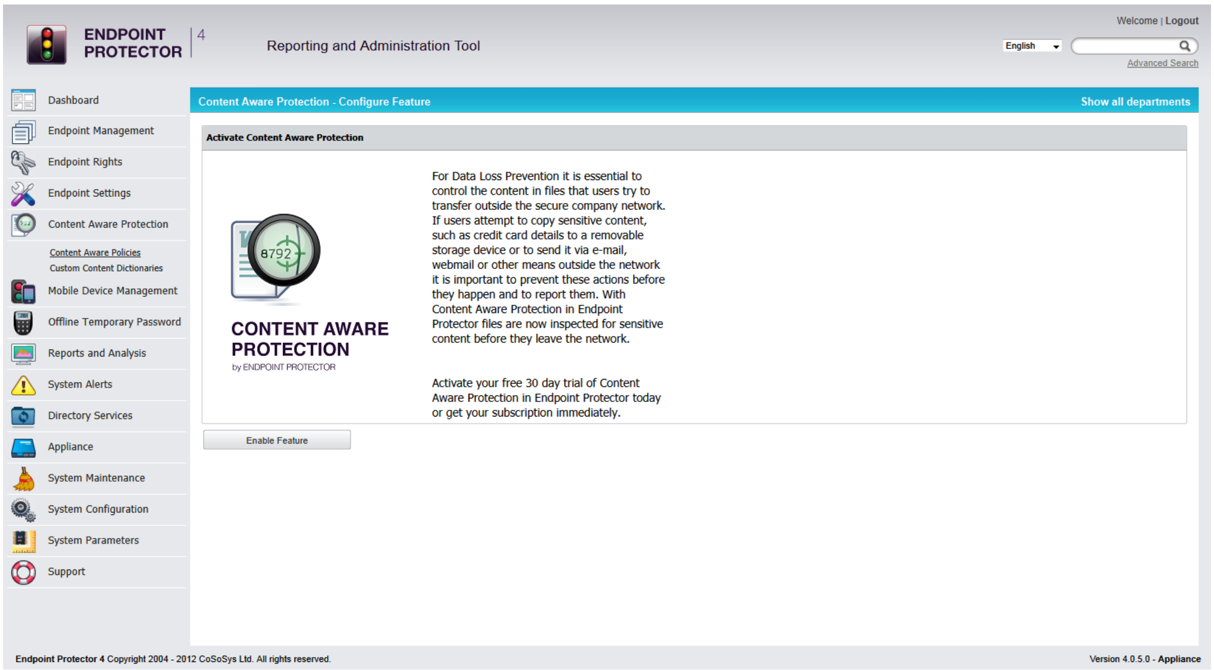
To prevent sensitive data leakage, Endpoint Protector closely monitors all activity at endpoints and other exit ways:

- Transfers on portable storage and other media devices (USB Drives, external hard-disks, CDs, DVDs, SD cards etc.), either directly or through encryption software (e.g. EasyLock)
- Transfers on local networks
- Transfers via Internet (E-MAIL clients, file sharing application, Web Browsers, Instant Messaging, Social Media)
- Transfers to the cloud (iCloud, Google Drive, Dropbox, Microsoft SkyDrive)
- Transfers through Copy & Paste / Cut & Paste
- Print screens

7.1. Activation of Content Aware Protection

Content Aware Protection comes as an optional feature with Endpoint Protector that requires a yearly-based separate subscription to be able to use it. The feature is displayed as deactivated inside the Endpoint Protector Reporting and Administration tool.

After a subscription is created, the Content Aware Protection feature can be enabled by simply selecting the Content Aware Protection option from the left-side menu and clicking on the Enable Feature button. The Content Aware Protection feature and all its options will be then activated for your system.



For Data Loss Prevention it is essential to control the content in files that users try to transfer outside the secure company network. If users attempt to copy sensitive content, such as credit card details to a removable storage device or to send it via e-mail, webmail or other means outside the network it is important to prevent these actions before they happen and to report them. With Content Aware Protection in Endpoint Protector files are now inspected for sensitive content before they leave the network.

Activate your free 30 day trial of Content Aware Protection in Endpoint Protector today or get your subscription immediately.

Note!

The Content Aware Protection feature requires separate licensing, in addition to the Endpoint Protector license for Device Control.

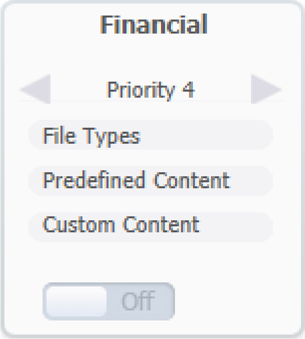
7.2. Content Aware Policies

Content Aware Policies are sets of rules for sensitive content detection and blocking enforced on selected network entities (users, computers, groups, departments).

A content aware policy is made up of four elements:

- Policy Type: defines for which type of OS the policy applies, Windows or Macintosh
- Policy Action: defines the type of action to be performed: reporting of sensitive content detection or blocking and reporting of sensitive content transfers
- Policy Filter: specifies the content to be detected, including: file type filtering, predefined content filtering, custom content filtering, file whitelists, regular expressions and domain whitelists.
- Policy Control Points: establishes the transfer destinations to be monitored

For example, a policy can be setup 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-MAILS, phone numbers, social security numbers etc.).

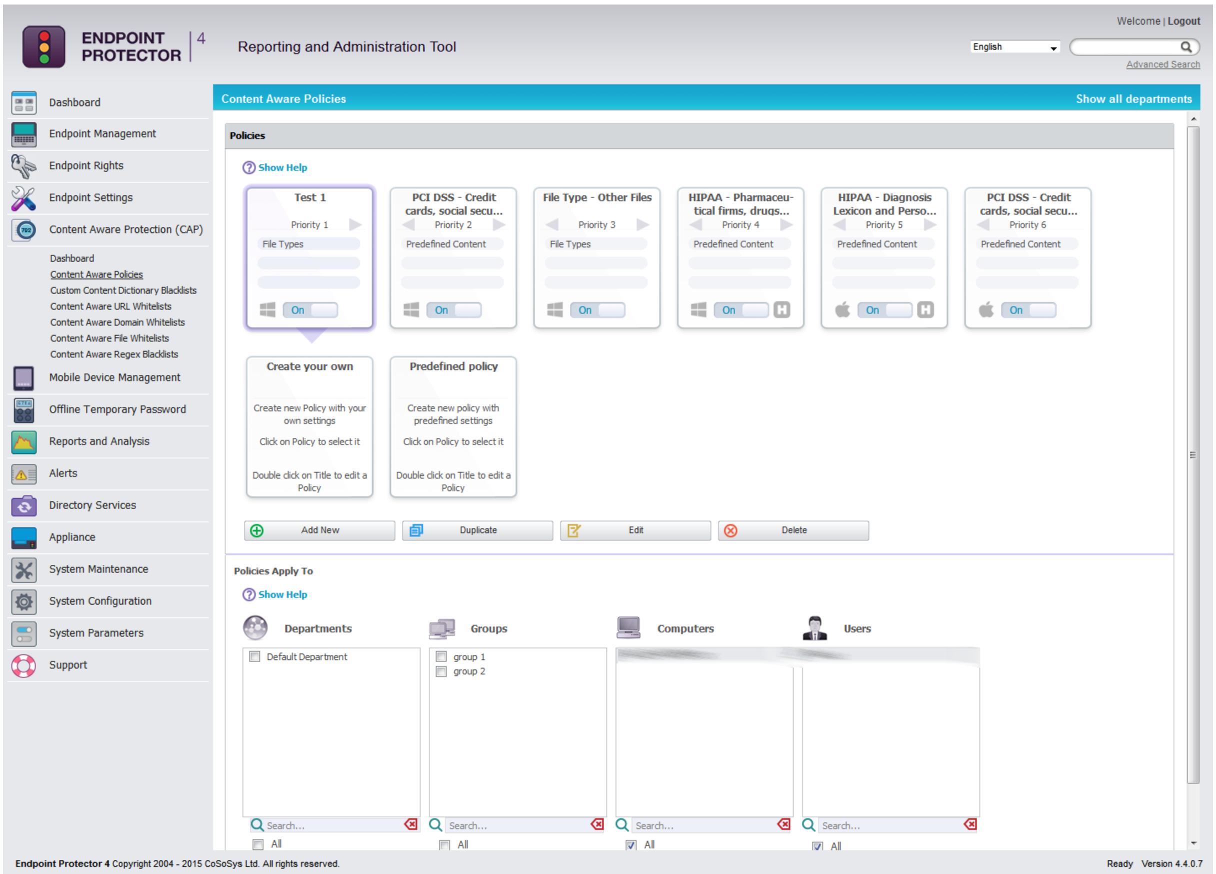


Additionally, each company can define its own sensitive content data lists as Custom Content Dictionaries corresponding to their specific domain of activity, targeted industry and roles. To ease this task, the Content Aware Protection module comes with a predefined Custom Content Dictionary that covers the most used sets of confidential terms and expressions.

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

7.2.1. Creating new policies

The administrator can easily create and manage Content Aware Policies inside the network from the Content Aware Protection -> Content Aware Policies submenu option.



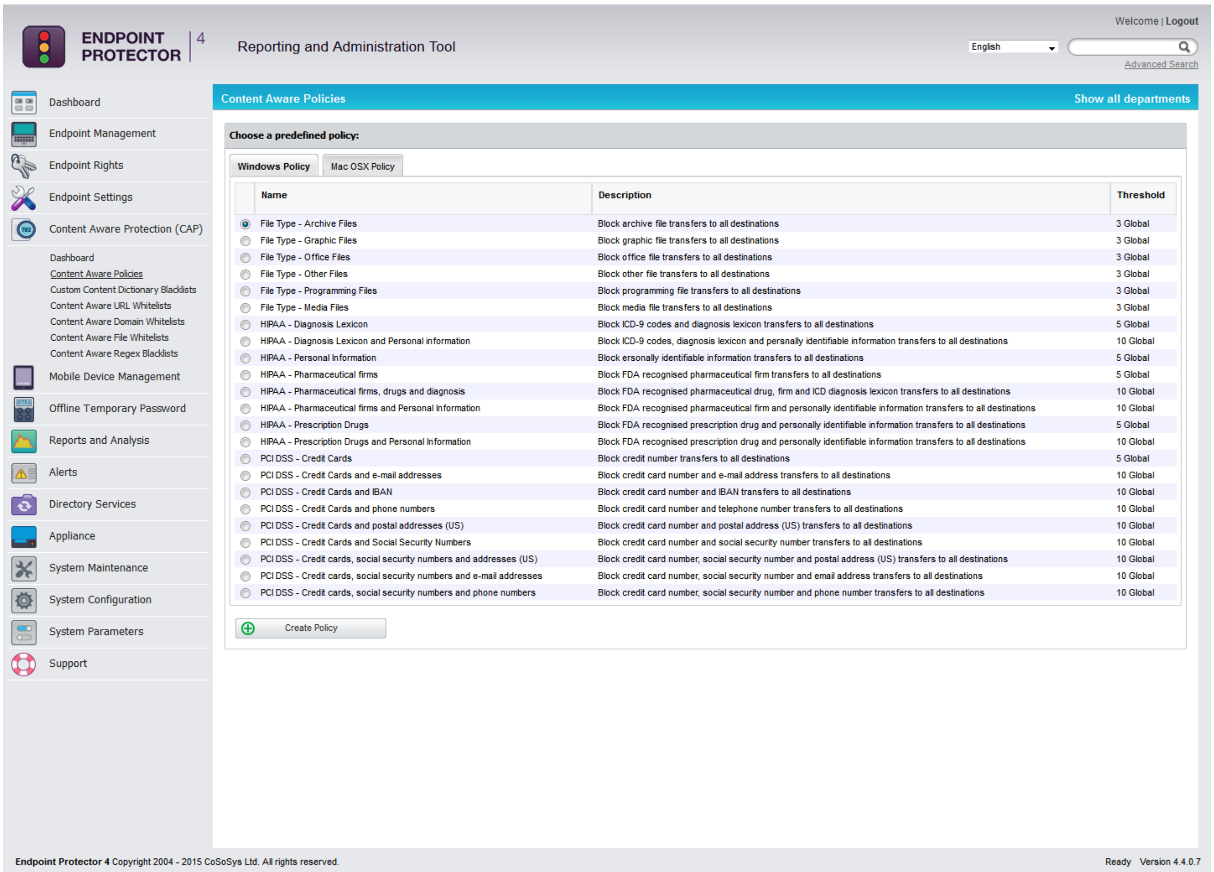
The available actions are: **Add New**, **Duplicate**, **Edit** and **Delete**. A new policy can be created also by clicking on the **Create your own** policy icon. An existing policy can be edited also by double-clicking the upper part of the policy icon.

By selecting a policy, the departments, groups, computers and users on which the selected policy applies, will be highlighted for an easier policy management. The administrator can then uncheck previously enabled entities for monitoring or check new ones. All the changes performed on the page are applied after clicking “Save”.

7.2.2. Predefined policies

A second option is to use the **Predefined policy** button. This redirects the administrator to two lists of predefined policies that come with Action set to "Block and Report" by default, for both Windows and OS X. The administrator can select by the description a policy of interest and press the "Create Policy" button for it to be displayed in the list of active policies.

These policies are named as per the information found in the column "Name" and have different Threshold values defined, as per the information found inside the column "Threshold".



Choose a predefined policy:

	Name	Description	Threshold
●	File Type - Archive Files	Block archive file transfers to all destinations	3 Global
○	File Type - Graphic Files	Block graphic file transfers to all destinations	3 Global
○	File Type - Office Files	Block office file transfers to all destinations	3 Global
○	File Type - Other Files	Block other file transfers to all destinations	3 Global
○	File Type - Programming Files	Block programming file transfers to all destinations	3 Global
○	File Type - Media Files	Block media file transfers to all destinations	3 Global
○	HIPAA - Diagnosis Lexicon	Block ICD-9 codes and diagnosis lexicon transfers to all destinations	5 Global
○	HIPAA - Diagnosis Lexicon and Personal information	Block ICD-9 codes, diagnosis lexicon and persnally identifiable information transfers to all destinations	10 Global
○	HIPAA - Personal Information	Block ersonally identifiable information transfers to all destinations	5 Global
○	HIPAA - Pharmaceutical firms	Block FDA recognised pharmaceutical firm transfers to all destinations	5 Global
○	HIPAA - Pharmaceutical firms, drugs and diagnosis	Block FDA recognised pharmaceutical drug, firm and ICD diagnosis lexicon transfers to all destinations	10 Global
○	HIPAA - Pharmaceutical firms and Personal Information	Block FDA recognised pharmaceutical firm and personally identifiable information transfers to all destinations	10 Global
○	HIPAA - Prescription Drugs	Block FDA recognised prescription drug and personally identifiable information transfers to all destinations	5 Global
○	HIPAA - Prescription Drugs and Personal Information	Block FDA recognised prescription drug and personally identifiable information transfers to all destinations	10 Global
○	PCI DSS - Credit Cards	Block credit number transfers to all destinations	5 Global
○	PCI DSS - Credit Cards and e-mail addresses	Block credit card number and e-mail address transfers to all destinations	10 Global
○	PCI DSS - Credit Cards and IBAN	Block credit card number and IBAN transfers to all destinations	10 Global
○	PCI DSS - Credit Cards and phone numbers	Block credit card number and telephone number transfers to all destinations	10 Global
○	PCI DSS - Credit Cards and postal addresses (US)	Block credit card number and postal address (US) transfers to all destinations	10 Global
○	PCI DSS - Credit Cards and Social Security Numbers	Block credit card number and social security number transfers to all destinations	10 Global
○	PCI DSS - Credit cards, social security numbers and addresses (US)	Block credit card number, social security number and postal address (US) transfers to all destinations	10 Global
○	PCI DSS - Credit cards, social security numbers and e-mail addresses	Block credit card number, social security number and email address transfers to all destinations	10 Global
○	PCI DSS - Credit cards, social security numbers and phone numbers	Block credit card number, social security number and phone number transfers to all destinations	10 Global

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7.2.3. Priorities for Content Aware Policies

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 to the left with a simple click on the left arrow for higher priority or on the right arrow for lower priority.

7.2.4. How Content Aware Policies Work

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

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 with a second policy 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 with the second policy 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 and report 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	Policy B with Priority 2	Policy C with Priority 3	Endpoint Protector Action
IGNORED	IGNORED	IGNORED	Information will not be blocked or reported.
IGNORED	IGNORED	*REPORTED*	Information will be reported.
IGNORED	*REPORTED*	*REPORTED*	Information will be reported.
REPORTED	*REPORTED*	*REPORTED*	Information will be reported.
IGNORED	IGNORED	**BLOCKED**	Information will be blocked.
IGNORED	**BLOCKED**	**BLOCKED**	Information will be blocked.
BLOCKED	**BLOCKED**	**BLOCKED**	Information will be blocked.
IGNORED	*REPORTED*	**BLOCKED**	Information will be reported.
IGNORED	**BLOCKED**	*REPORTED*	Information will be blocked.

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

Attention!

The information left unchecked when creating a policy will be considered as Ignored by Endpoint Protector and **NOT AS ALLOWED**.

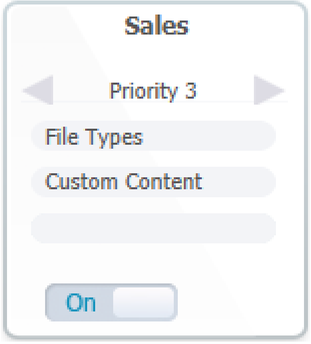
7.2.5. Types of Content Aware Policies

Depending on the selected content to detect, a policy can be classified in:

- **File Type Filter Policy**: detects/blocks all transfers of preselected file types, including preselected file types archived in zip files with no password protection
- **Predefined Content Policy**: detects/blocks all file transfers containing Credit Card and/or Personal Identifiable information
- **Custom Content Policy**: detects/blocks all file transfers containing terms from a preselected Custom Content Dictionary

Combined policies can be created by selecting several filter types for the same policy.

An example of a combined Content Aware Policy for the Sales Department to detect specific file types and custom terms is shown below.



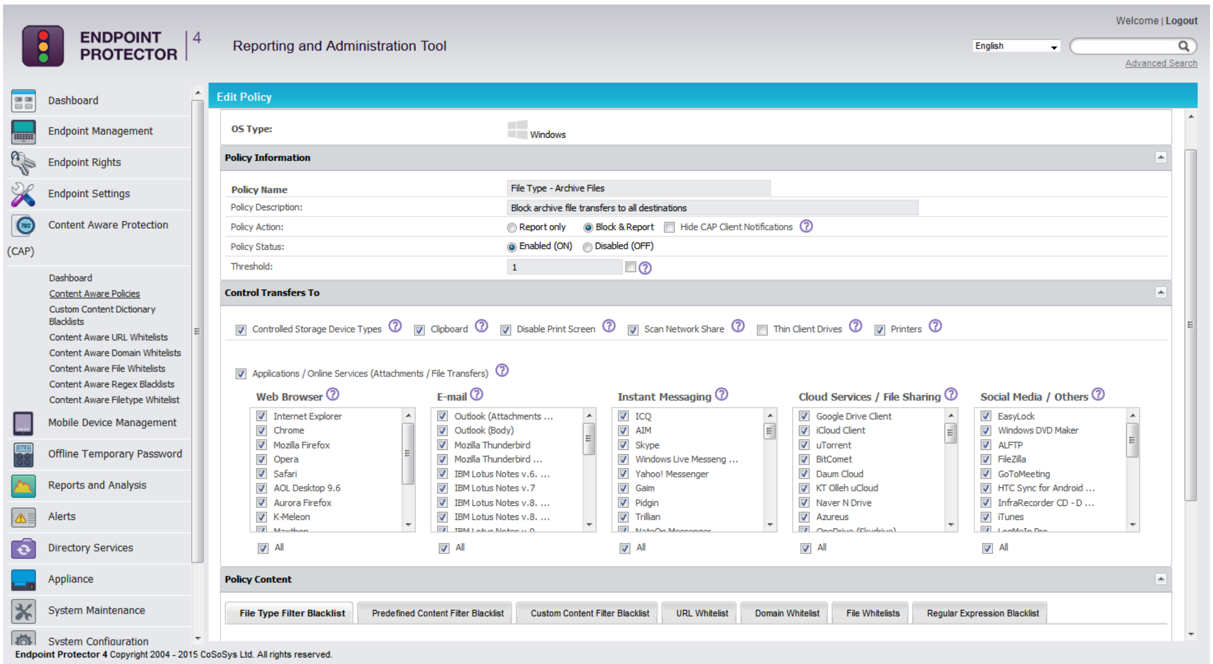
Depending on the selected content to monitor, the icon corresponding to the newly created policy will highlight the specific selected filters.

Note!

Content Aware Policies apply also to File Whitelist. This means that all files that were previously whitelisted will be inspected for sensitive content detection, reported and / or blocked according to the defined policy.

7.2.6. Setting up Content Aware Policies

To setup a Content Aware Policy, go to Content Aware Protection -> Content Aware Policies and click on the Create Your Own Policy icon or push the "Add Policy" button. This will open the Add a new Policy window, which will allow setting the parameters of the newly created policy.


ENDPOINT PROTECTOR 4
Reporting and Administration Tool
Welcome | Logout
English
Advanced Search
Dashboard
Endpoint Management
Endpoint Rights
Endpoint Settings
Content Aware Protection (CAP)
Dashboard
Content Aware Policies
Custom Content Dictionary Blacklists
Content Aware URL Whitelists
Content Aware Domain Whitelists
Content Aware File Whitelists
Content Aware Regex Blacklists
Content Aware Filetype Whitelist
Mobile Device Management
Offline Temporary Password
Reports and Analysis
Alerts
Directory Services
Appliance
System Maintenance
System Configuration
Edit Policy

OS Type: Windows

Policy Information

Policy Name: File Type - Archive Files

Policy Description: Block archive file transfers to all destinations

Policy Action: ○ Report only ● Block & Report □ Hide CAP Client Notifications

Policy Status: ● Enabled (ON) ○ Disabled (OFF)

Threshold: 1 □

Control Transfers To

☑ Controlled Storage Device Types ☑ Clipboard ☑ Disable Print Screen ☑ Scan Network Share □ Thin Client Drives ☑ Printers

☑ Applications / Online Services (Attachments / File Transfers)

Web Browser: ☑ Internet Explorer ☑ Chrome ☑ Mozilla Firefox ☑ Opera ☑ Safari ☑ AOL Desktop 9.6 ☑ Aurora Firefox ☑ K-Meleon ☑ Maxthon; ☑ All

E-mail: ☑ Outlook (Attachments ... ☑ Outlook (Body) ☑ Mozilla Thunderbird ☑ Mozilla Thunderbird ... ☑ IBM Lotus Notes v.6. ... ☑ IBM Lotus Notes v.7 ☑ IBM Lotus Notes v.8. ... ☑ IBM Lotus Notes v.8. ... ☑ IBM Lotus Notes v.9; ☑ All

Instant Messaging: ☑ ICQ ☑ AIM ☑ Skype ☑ Windows Live Messeng ... ☑ Yahoo! Messenger ☑ Gaim ☑ Pidgin ☑ Trillian ☑ NateOn Messenger; ☑ All

Cloud Services / File Sharing: ☑ Google Drive Client ☑ iCloud Client ☑ uTorrent ☑ BitComet ☑ Daum Cloud ☑ KT Olleh uCloud ☑ Naver N Drive ☑ Azureus ☑ OneDrive (Skydrive); ☑ All

Social Media / Others: ☑ EasyLock ☑ Windows DVD Maker ☑ ALFTP ☑ FileZilla ☑ GoToMeeting ☑ HTC Sync for Android ... ☑ InfraRecorder CD - D ... ☑ iTunes ☑ LogMeIn Pro; ☑ All

Policy Content

File Type Filter Blacklist
Predefined Content Filter Blacklist
Custom Content Filter Blacklist
URL Whitelist
Domain Whitelist
File Whitelists
Regular Expression Blacklist

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A policy can be enforced to detect & report all transfers of sensitive content data and/or block all transfers:

● Block & Report

○ Report only

Note!

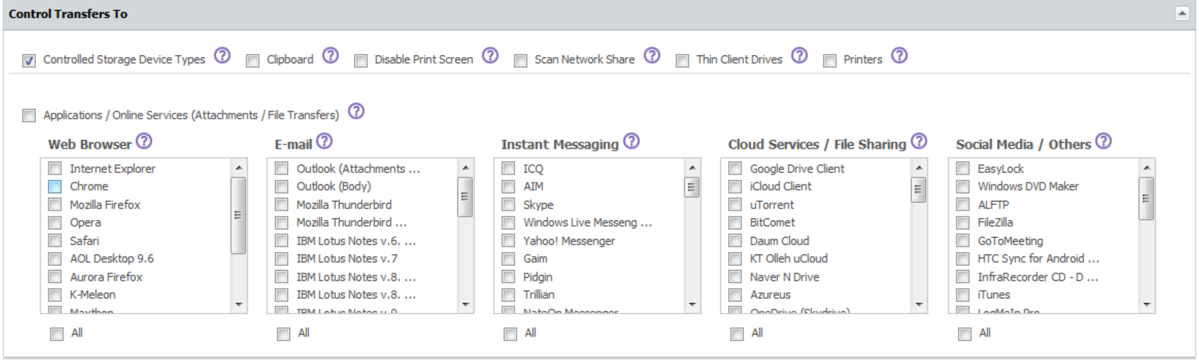
The Block & Report action will block all file transfers on the selected network entity. We recommend using the Report only action initially to detect but not block data transfers. This way, no activity will be interrupted and you can gain a better view of data use across your network.

By default, data control is turned off. To activate the defined content rules, a newly created policy must be enabled (ON). The policy status can be changed later by using the simple ON/OFF switch from the policy icon:

Note!

An enabled (ON) Policy will be enforced only after selecting the network entities to be monitored.

To complete the policy definition, the transfer destinations to be monitored must be selected and the content to be detected must be specified.



Control Transfers To

☑ Controlled Storage Device Types ? □ Clipboard ? □ Disable Print Screen ? □ Scan Network Share ? □ Thin Client Drives ? □ Printers ?

□ Applications / Online Services (Attachments / File Transfers) ?

Web Browser ?
- □ Internet Explorer
- □ Chrome
- □ Mozilla Firefox
- □ Opera
- □ Safari
- □ AOL Desktop 9.6
- □ Aurora Firefox
- □ K-Meleon
- □ Maxthon

□ All

E-mail ?
- □ Outlook (Attachments ...
- □ Outlook (Body)
- □ Mozilla Thunderbird
- □ Mozilla Thunderbird ...
- □ IBM Lotus Notes v.6. ...
- □ IBM Lotus Notes v.7
- □ IBM Lotus Notes v.8. ...
- □ IBM Lotus Notes v.8. ...
- □ IBM Lotus Notes v.9

□ All

Instant Messaging ?
- □ ICQ
- □ AIM
- □ Skype
- □ Windows Live Messeng ...
- □ Yahoo! Messenger
- □ Gaim
- □ Pidgin
- □ Trillian
- □ NateOn Messenger

□ All

Cloud Services / File Sharing ?
- □ Google Drive Client
- □ iCloud Client
- □ uTorrent
- □ BitComet
- □ Daum Cloud
- □ KT Olleh uCloud
- □ Naver N Drive
- □ Azureus
- □ OneDrive (Skydrive)

□ All

Social Media / Others ?
- □ EasyLock
- □ Windows DVD Maker
- □ ALFTP
- □ FileZilla
- □ GoToMeeting
- □ HTC Sync for Android ...
- □ InfraRecorder CD - D ...
- □ iTunes
- □ LogMeIn Pro

□ All

Below is the main categories list of transfer destinations to control:

- Controlled device types: comprises the list of all removable devices registered to Endpoint Protector. The list can be viewed at System Parameters -> Device Types -> Content Aware Protection.

Note!

For Controlled Device Types category, Endpoint Protector will monitor file transfers both to and from removable media.

- Clipboard: refers to all content captured through Copy & Paste and Cut & Paste operations
- Disable Print Screen: refers to the screen capture option
- Scan Network Share: refers to content uploaded to local networks
- Thin Client Drives: refers to RDP Storage Drives
- Printers: refers to both local and network shared printers

Note!

For Network Share category on OS X, Endpoint Protector will report all the events for "Report Only" policies. For "Block & Report" policies the transfer from a Local Share towards the Local Disk, Controlled Storage Device Types and Controlled Applications is blocked.

- Applications / Online Services (Attachments / File Transfers): comprises Web Browsers, E-MAIL Clients, IM, File Sharing, Social Media/Others.

Type	List of Applications
Web Browsers	Internet Explorer, Mozilla Firefox, Chrome, Opera, Safari, SeaMonkey, Maxthon, AOL Destop 9.6, K-Meleon, Aurora Firefox, Adobe Flash Player*
E-MAIL Clients	Microsoft Office Outlook, Mozilla Thunderbird, Windows Live Mail,Outlook Express, Windows Mail, AOL Mail, Opera Mail, SeaMonkey Mail, Courier, IBM Lotus Notes, GroupWise Client,
Instant Messaging	AIM, eBuddy, MySpace IM, ICQ, Google Talk, Skype, Windows Live Messenger, Yahoo! Messenger, mIRC, Trillian, MyChat, LingoWare, Chit Chat For Facebook, Nimbuzz, Facebook Messenger, Microsoft Communicator 2007, Facemoods, Gaim, LAN Chat Enterprise, OpenTalk, TurboIRC, WinSent Messenger, Pink Notes Plus, fTalk, XChat, ooVoo, TweetDeck, Pidgin Instant Messenger,NateOn Messenger, QQ International , Twhirl, Daum MyPeople, Mail.Ru
Cloud Services / File Sharing	Google Drive Client, iCloud, Dropbox, Microsoft SkyDrive, eMule, Kazaa, Shareaza, Morpheus, eDonkey, DC++, BitTorrent, Azureus, BitComet, uTorrent, iMesh, Daum Cloud, KT Olleh uCloud, Naver NDrive, Microsoft Skydrive client, Limewire, FTP Command, ownCloud client, Pogoplug Backup, Pruna P2P, Sendspace, Evernote, FileCloud Sync client, GitHub, Remote Desktop Connection, Mega, Yandex Disk
Social Media/Others	InfraRecorder, iTunes, Nokia PC Suite 2008 / 2011, Samsung Kies, Sony Ericsson PC Companion, TeamViewer, HTC Sync for Android phones, Total Commander, LogMeIn, EasyLock, GoToMeeting, Windows DVD Maker, FileZilla, ALFTP, GoToMeeting, Windows Store Apps

Note!

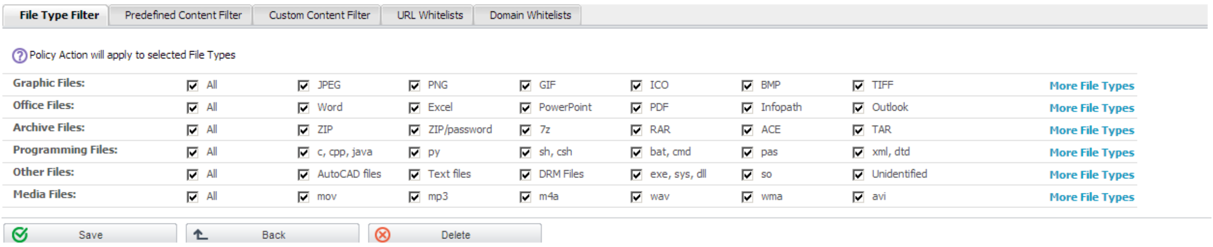
Adobe Flash Player must be checked inside the Web Browser category in order to block sites that use Adobe Flash Active X.

The last step in defining a new policy consists in selecting the content to detect from the three separate tabs for Content Filters.

The File Type Filter contains a list of supported file types grouped in six categories:

- Graphic Files: JPEG, PNG, GIF, ICO, BMP, TIFF, EPS, CorelDraw etc.
- Office Files: Word (.DOC, .DOCX), Excel (.XLS, .XLSX), PowerPoint (.PPT, .PPTX), PDF, Infopath (.XSN), RTF, OneNote (.ONE), Outlook (.PST, .OST) etc.
- Archive Files: ZIP, 7z, RAR, ACE, TAR, XAR etc.
- Programming Files: C, CPP, JAVA, PY, SH, CSH, BAT, CMD, PAS, XML, DTD TEX, F, PHP, Ruby (.RB), Perl (.PL) etc.
- Media Files: MP3, M4A, WAV, WMA, AVI, AIF, M3U, MPA etc.
- Other Files: TXT, EXE, SYS, DLL, SO, DRM, SolidWorks, Nasca-Drm, Ideas-3D-CAD, etc.

For each category, the most common file types are displayed. To be able to view and select more file types, click on the More File Types option at the end of each file type enumeration.



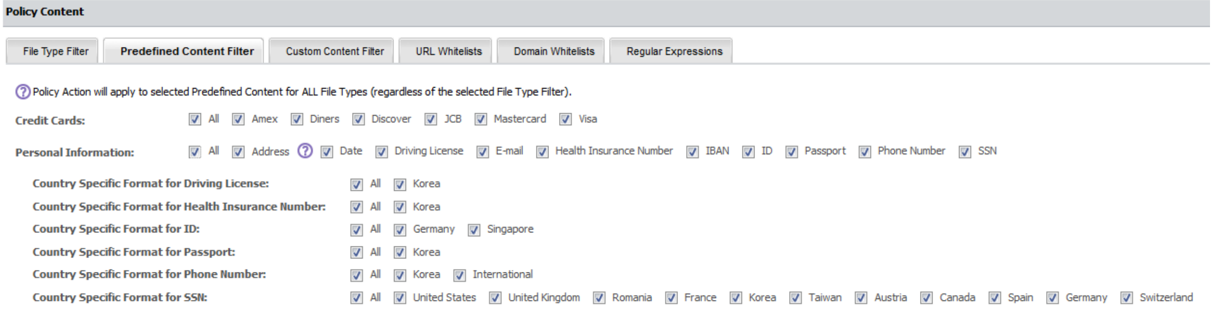
Policy Action will apply to selected File Types

Graphic Files:	☑ All	☑ JPEG	☑ PNG	☑ GIF	☑ ICO	☑ BMP	☑ TIFF	More File Types
Office Files:	☑ All	☑ Word	☑ Excel	☑ PowerPoint	☑ PDF	☑ Infopath	☑ Outlook	More File Types
Archive Files:	☑ All	☑ ZIP	☑ ZIP/password	☑ 7z	☑ RAR	☑ ACE	☑ TAR	More File Types
Programming Files:	☑ All	☑ c, cpp, java	☑ py	☑ sh, csh	☑ bat, cmd	☑ pas	☑ xml, dtd	More File Types
Other Files:	☑ All	☑ AutoCAD files	☑ Text files	☑ DRM Files	☑ exe, sys, dll	☑ so	☑ Unidentified	More File Types
Media Files:	☑ All	☑ mov	☑ mp3	☑ m4a	☑ wav	☑ wma	☑ avi	More File Types

Note!

As many files (e.g. Programming Files) are actually .TXT files, we recommend more precaution when selecting this file type to avoid any undesired effects.

The “Predefined Content Filter” displays a list of predefined items to detect, from credit card information to Personal Identifiable Information. The Content Aware Protection module offers the option of Localization, meaning that you can select specific formats for a list of countries for information such as Driving License, ID, Phone Number and Social Security Number. By leaving unchecked this option, all formats will be detected by the Content Aware Protection agent.



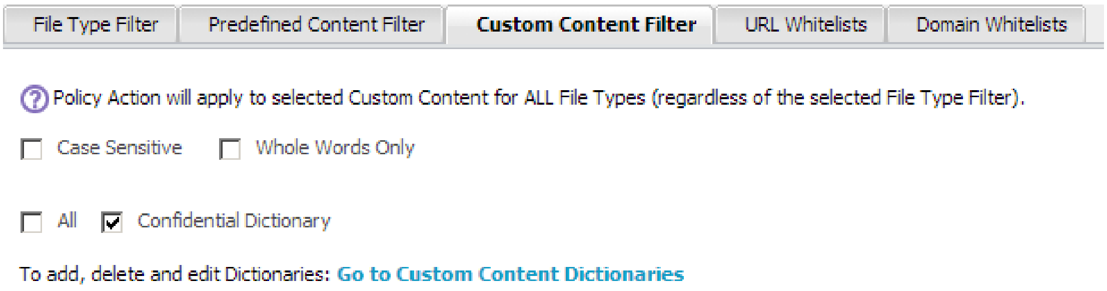
Policy Action will apply to selected Predefined Content for ALL File Types (regardless of the selected File Type Filter).

Credit Cards: ☑ All ☑ Amex ☑ Diners ☑ Discover ☑ JCB ☑ Mastercard ☑ Visa

Personal Information: ☑ All ☑ Address ☑ Date ☑ Driving License ☑ E-mail ☑ Health Insurance Number ☑ IBAN ☑ ID ☑ Passport ☑ Phone Number ☑ SSN

Country Specific Format for Driving License: ☑ All ☑ Korea
Country Specific Format for Health Insurance Number: ☑ All ☑ Korea
Country Specific Format for ID: ☑ All ☑ Germany ☑ Singapore
Country Specific Format for Passport: ☑ All ☑ Korea
Country Specific Format for Phone Number: ☑ All ☑ Korea ☑ International
Country Specific Format for SSN: ☑ All ☑ United States ☑ United Kingdom ☑ Romania ☑ France ☑ Korea ☑ Taiwan ☑ Austria ☑ Canada ☑ Spain ☑ Germany ☑ Switzerland

The “Custom Content Filter” displays a list of Content Aware dictionaries. By selecting one or more dictionaries, the Content Aware Protection agent will detect any occurrence of one, more or all terms contained in the Dictionary list.



Policy Action will apply to selected Custom Content for ALL File Types (regardless of the selected File Type Filter).

□ Case Sensitive □ Whole Words Only

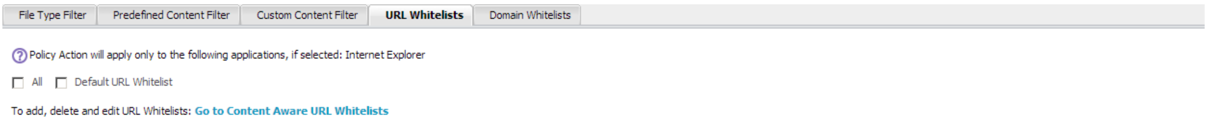
□ All ☑ Confidential Dictionary

To add, delete and edit Dictionaries: **Go to Custom Content Dictionaries**

By checking the Case Sensitive option, the agent can differentiate the uppercase and lowercase letters when inspecting the content.

If the Whole Words Only option is marked, terms from the inspected content are detected only if they are an identical match with the ones that appear in the dictionary (e.g. „age‟ is in the Dictionary; variations like „aged‟, „agent‟, „agency‟ etc. won´t be reported/blocked).

The “URL Whitelist” displays a list of URL whitelists. By selecting one or more whitelists, the Content Aware Protection agent will not scan uploads or attachments to the web addresses present in the whitelists. Whitelisting works for Internet Explorer.

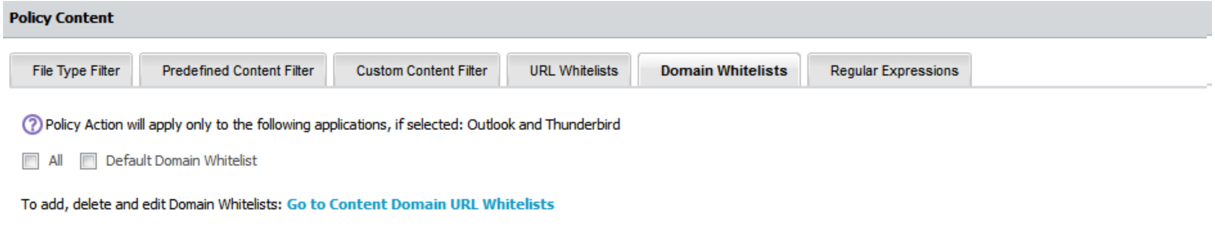


Policy Action will apply only to the following applications, if selected: Internet Explorer

□ All □ Default URL Whitelist

To add, delete and edit URL Whitelists: **Go to Content Aware URL Whitelists**

The “Domain Whitelist” displays a list of domain whitelists. By selecting one or more whitelists, the Content Aware Protection agent will not scan mails sent to the recipients or domains present in the whitelists. Whitelisting works for Microsoft Outlook and Mozilla Thunderbird.

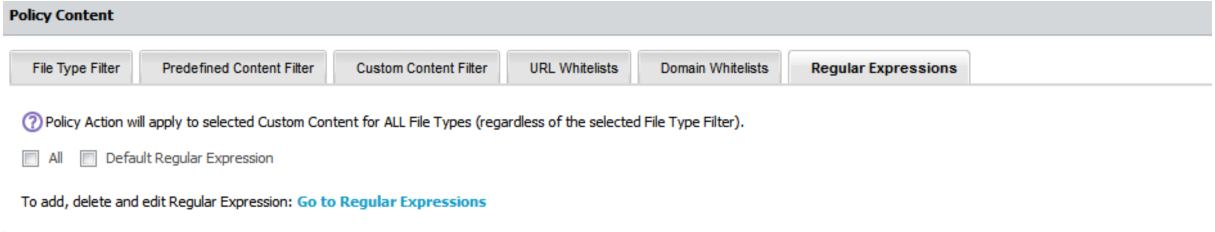


Policy Action will apply only to the following applications, if selected: Outlook and Thunderbird

□ All □ Default Domain Whitelist

To add, delete and edit Domain Whitelists: **Go to Content Domain URL Whitelists**

The “Regular Expressions” shows the list of the created regular expressions and the administrator can select up to five (5) expressions.



Policy Content

Policy Action will apply to selected Custom Content for ALL File Types (regardless of the selected File Type Filter).

□ All □ Default Regular Expression

To add, delete and edit Regular Expression: Go to Regular Expressions

Once a policy is created, it will be displayed inside the Policies List. To enforce a content aware policy inside the network, one must select the specific policy that they want to apply by clicking on it and check the corresponding boxes to the network entity on which they want to apply the content rules. 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.

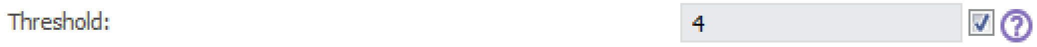
The administrator can be notified of each occurrence of an event described in a newly created policy by setting up a Content Aware alert for that specific policy from System Alerts -> Content Aware Alerts.

7.2.7. The Threshold Number

A powerful Content Aware Policy option consists of setting up a threshold. A threshold is defined by the number of actions or events up to which the policy does not block or report a file transfer. The system enables the use of two types of thresholds, a **regular** type and a **global** type.

Suppose that you have set up a “Block & Report” policy on the transfer of Social Security Numbers (SSN) on some types of Internet browsers. A Regular Threshold setup of four (4) will block all transfers - on those browsers - which contain four or more individual SSN numbers, but not 1, 2, 3 x SSN appearances. A set value of four (4) will permit and only report those transfers.

By checking the box next to the number, the threshold will receive a global function.



Threshold: 4 ☑

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. In another example, two (2) threats, one being a Social Security Number and the other being a Phone number, will not be blocked by a policy with a Regular Threshold of 2, only by one with a Global Threshold. On the other hand, two (2) Social Security Numbers will be blocked by policies with both types of thresholds set at two (2).

The info button ⓘ next to the checkbox for the Global threshold provides more examples related to the differences between the Regular and the Global Threshold.

Note!

Enabling the threshold option will produce no effect when the Policy Action is set on “Report Only”.

The Threshold option applies only on the “Predefined Content” filter of the Content Aware Protection module and to the “Personal Information” and “Internet Protocol (IP) addresses” filters of the HIPAA Content Aware Protection policies.

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.

7.3. Custom Content Dictionary Blacklists

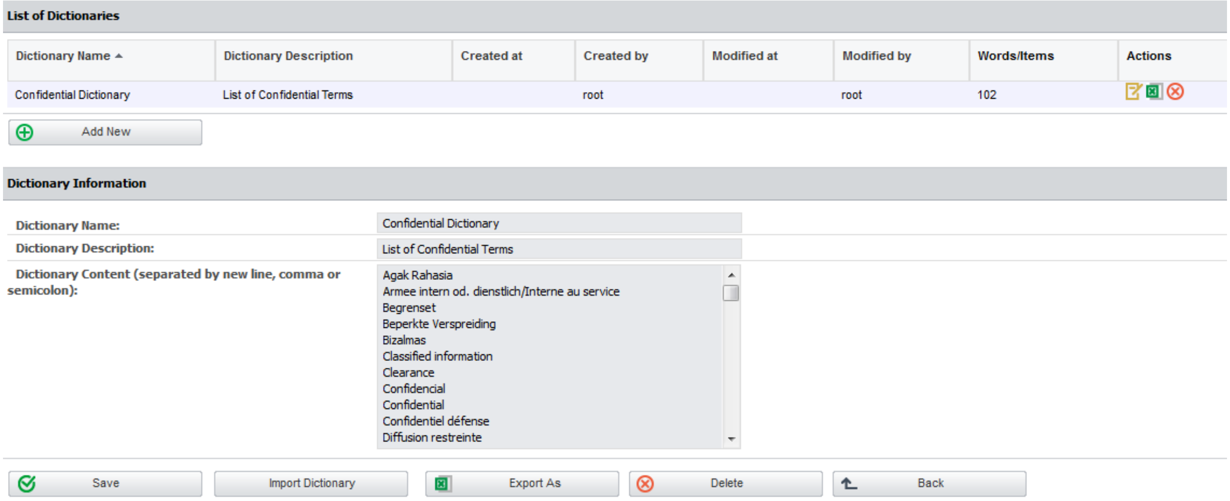
Custom Content Dictionary Blacklists are custom defined lists of terms and expressions to be detected as sensitive content by Endpoint Protector. The list of custom content dictionaries is available under Content Aware Protection -> Custom Content Dictionary Blacklists.

The available actions for each dictionary are: **Edit**, **Export Dictionary** and **Delete**.

✎ ▦ ⊗

A new dictionary can be created by clicking on the “Add New” button. To populate the content of a newly created dictionary, items of at least three characters might be entered either manually separated by comma, semicolon or new line or directly imported from an Excel file by pressing the Import Dictionary button.

An example of a Custom Content Dictionary with financial terms is shown below:



List of Dictionaries

Dictionary Name ▲	Dictionary Description	Created at	Created by	Modified at	Modified by	Words/Items	Actions
Confidential Dictionary	List of Confidential Terms		root		root	102	✎ ☒ ⊗

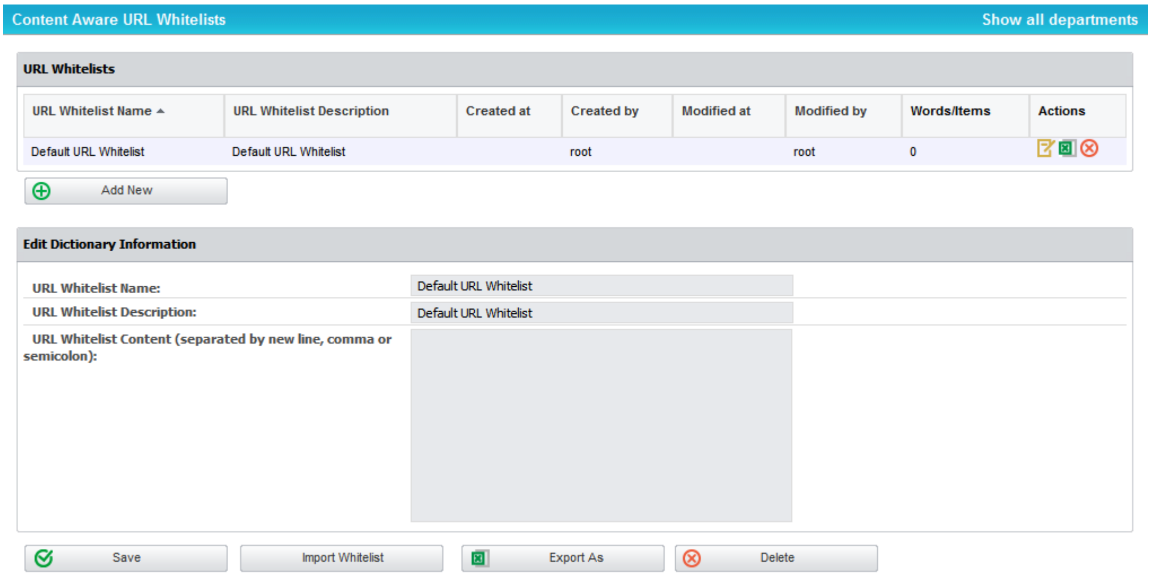
Dictionary Information

Dictionary Name:	Confidential Dictionary
Dictionary Description:	List of Confidential Terms
Dictionary Content (separated by new line, comma or semicolon):	Agak Rahasia Armee intern od. dienstlich/Interne au service Begrenset Beperkte Verspreiding Bizalmas Classified information Clearance Confidencial Confidential Confidentiel défense Diffusion restreinte

Once a new dictionary is created, it will be automatically displayed inside the Custom Content tab when creating a new or editing an existing Content Aware Policy. The Content Aware Protection module comes with a predefined set of dictionaries.

7.4. Content Aware URL Whitelists

URL Whitelists are custom defined lists of web addresses where uploading of confidential information will be allowed by the Endpoint Protector. This feature works on Internet Explorer.



Content Aware URL Whitelists — **Show all departments**

URL Whitelists

URL Whitelist Name ▲	URL Whitelist Description	Created at	Created by	Modified at	Modified by	Words/Items	Actions
Default URL Whitelist	Default URL Whitelist		root		root	0	✎ ☒ ⊗

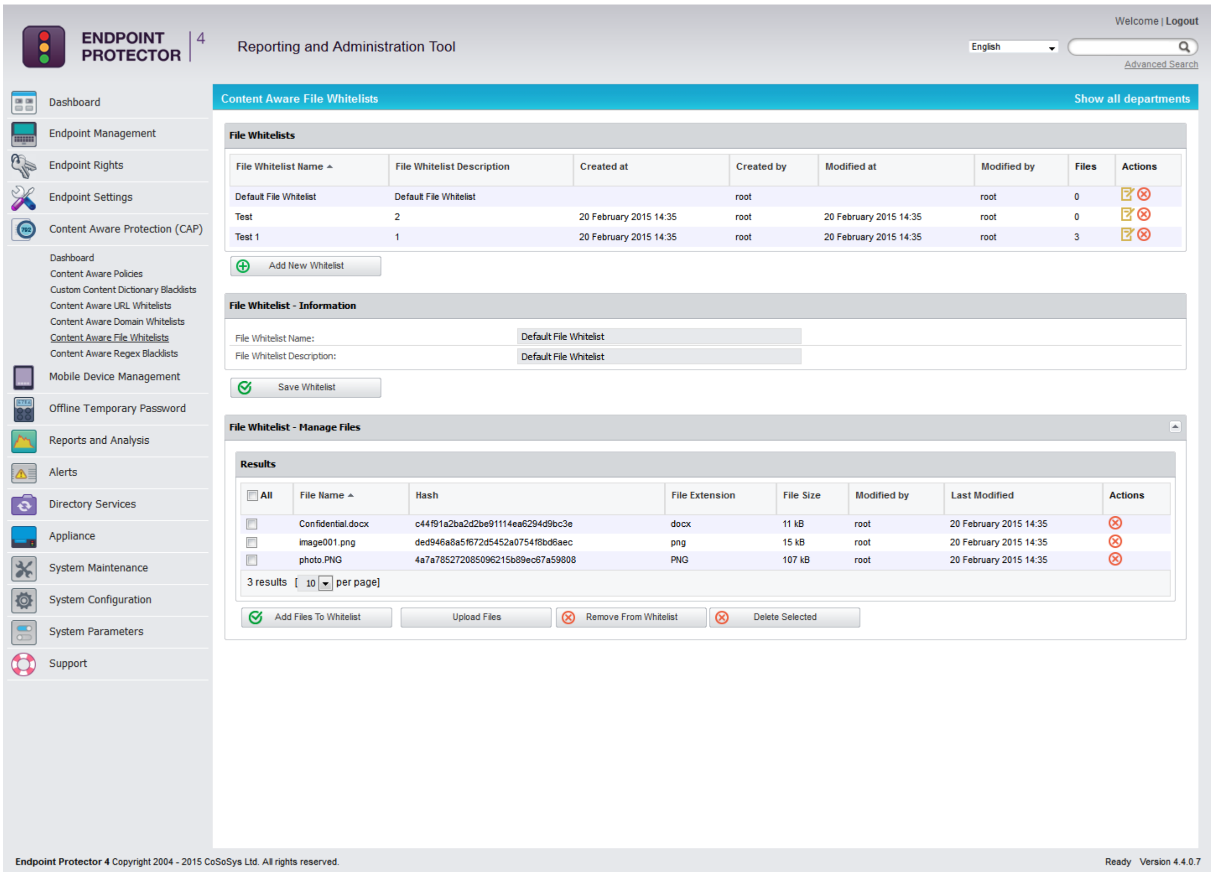
Edit Dictionary Information

URL Whitelist Name:	Default URL Whitelist
URL Whitelist Description:	Default URL Whitelist
URL Whitelist Content (separated by new line, comma or semicolon):	

Once a new URL whitelist is added, it will be automatically displayed inside the URL Whitelists tab.

7.5. Content Aware File Whitelists

Content Aware File Whitelists are custom groups of files which the administrator wishes to exclude from the enforced Content Aware policies.



File Whitelists

File Whitelist Name ▲	File Whitelist Description	Created at	Created by	Modified at	Modified by	Files	Actions
Default File Whitelist	Default File Whitelist		root		root	0	✎ ⊗
Test	2	20 February 2015 14:35	root	20 February 2015 14:35	root	0	✎ ⊗
Test 1	1	20 February 2015 14:35	root	20 February 2015 14:35	root	3	✎ ⊗

File Whitelist - Information

File Whitelist Name: Default File Whitelist

File Whitelist Description: Default File Whitelist

File Whitelist - Manage Files

Results

□ All	File Name ▲	Hash	File Extension	File Size	Modified by	Last Modified	Actions
□	Confidential.docx	c44f91a2ba2d2be91114ea6294d9bc3e	docx	11 kB	root	20 February 2015 14:35	⊗
□	image001.png	ded946a8a5f672d5452a0754f8bd6aec	png	15 kB	root	20 February 2015 14:35	⊗
□	photo.PNG	4a7a785272085096215b89ec67a59808	PNG	107 kB	root	20 February 2015 14:35	⊗

3 results [10 per page]

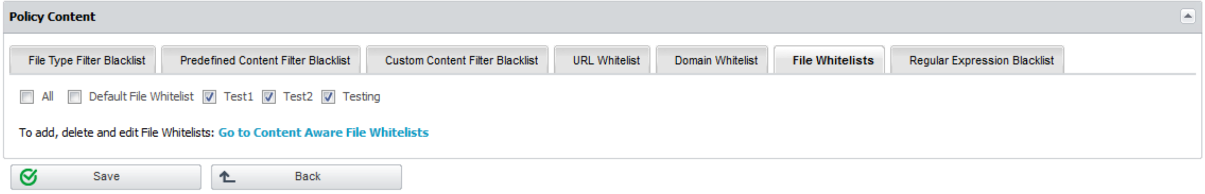
The first step requires the files to be uploaded on the Endpoint Protector application by using the **Upload Files** button.

The second step is to use **Add New Whitelist** which will prompt with an empty File Whitelist – Information section. After the name and description of the whitelist are set, they can be saved using the **Save Whitelist** button.

After the File Whitelists section is populated with the wanted lists, the administrator can use the **Edit** ✎ button to select one of the lists - and enable the selection of one or multiple files from the Manage Files section – and populate it with files recently uploaded.

The final step required is to press the button **Add Files To Whitelist**, which will save all the modifications made to the most recently edited list.

From here on, navigating to the below shown menu will allow an administrator to whitelist one or multiple file whitelists for any Content Aware policy enforced on the network.

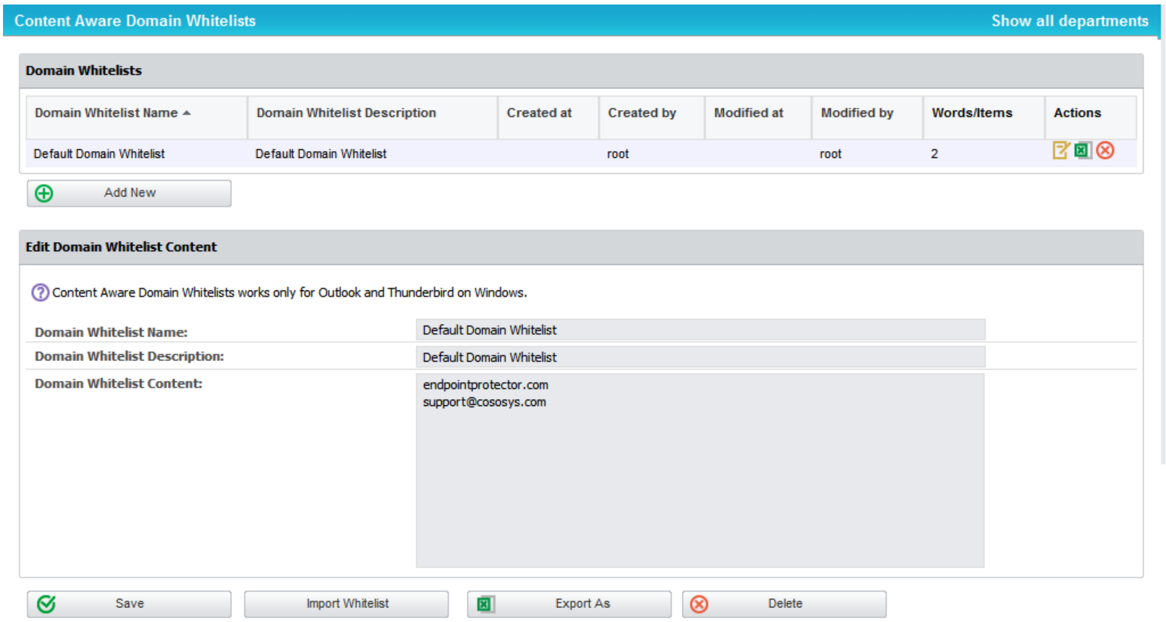

Policy Content
File Type Filter Blacklist
Predefined Content Filter Blacklist
Custom Content Filter Blacklist
URL Whitelist
Domain Whitelist
File Whitelists
Regular Expression Blacklist
Save
Back

□ All □ Default File Whitelist ☑ Test1 ☑ Test2 ☑ Testing

To add, delete and edit File Whitelists: Go to Content Aware File Whitelists

7.6. Content Aware Domain Whitelists

Domain Whitelists are custom defined e-mail addresses to which sending of confidential information will be allowed by the Endpoint Protector .This feature works on Microsoft Outlook and Mozilla Thunderbird.



Domain Whitelist Name ▲	Domain Whitelist Description	Created at	Created by	Modified at	Modified by	Words/Items	Actions
Default Domain Whitelist	Default Domain Whitelist		root		root	2	

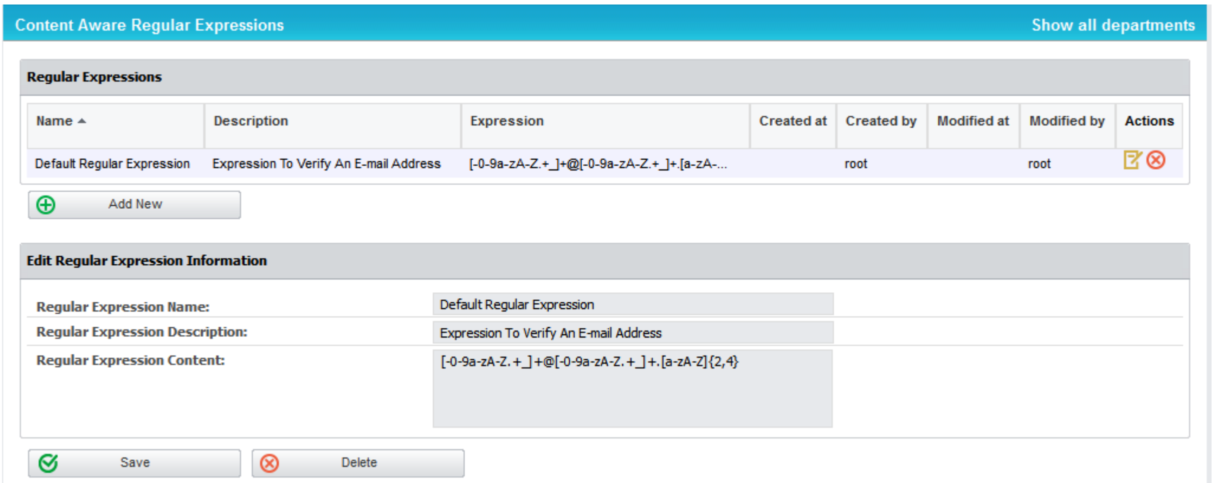
Content Aware Domain Whitelists works only for Outlook and Thunderbird on Windows.

Domain Whitelist Name:	Default Domain Whitelist
Domain Whitelist Description:	Default Domain Whitelist
Domain Whitelist Content:	endpointprotector.com support@cososys.com

Once a new domain whitelist is added, it will be automatically displayed inside the Domain Whitelists tab.

7.7. Content Aware Regex Blacklists

By definition, Regular Expressions are sequences of characters that form a search pattern, mainly for use in pattern matching with strings. An administrator can create a regular expression in order to find a certain recurrence in the data that is transferred across the protected network.



Content Aware Regular Expressions

Regular Expressions

Name ▲	Description	Expression	Created at	Created by	Modified at	Modified by	Actions
Default Regular Expression	Expression To Verify An E-mail Address	[-0-9a-zA-Z.+_]+@[-0-9a-zA-Z.+_]+.[a-zA-...		root		root	

Edit Regular Expression Information

Regular Expression Name:	Default Regular Expression
Regular Expression Description:	Expression To Verify An E-mail Address
Regular Expression Content:	[-0-9a-zA-Z.+_]+@[-0-9a-zA-Z.+_]+.[a-zA-Z]{2,4}

Example that matches an e-mail: **[-0-9a-zA-Z.+_]+@[-0-9a-zA-Z.+_]+\.[a-zA-Z]{2,4}**

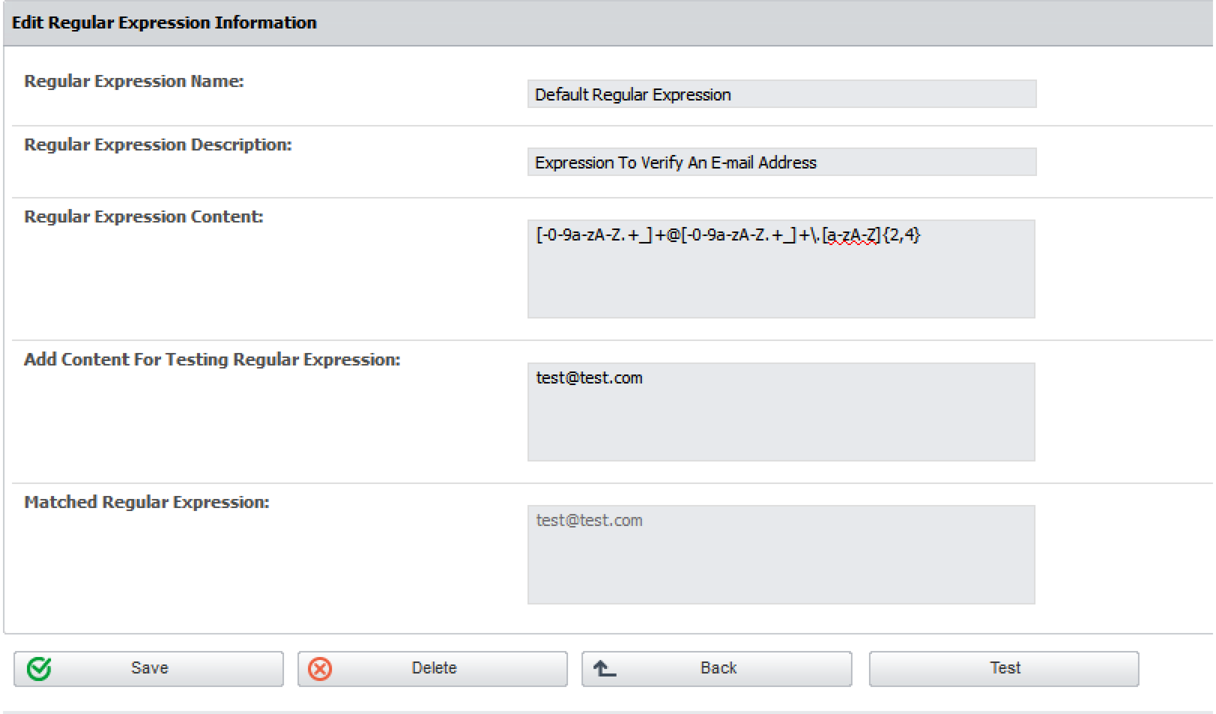
Example that matches an IP: **(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)){3}**

Note!

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.

This feature is provided "as is" and requires advanced knowledge of the Regular Expression syntax.
The regular expressions feature is provided with no direct support and it is the responsibility of the customers to learn and implement regular expressions and to thoroughly test.

Regular Expressions can be tested for accuracy. Insert into the "Add Content for Testing Regular Expression" box a general example of something on which the regex applies to, and press the "Test" button. If the Regular Expression has no errors inside of it, then the same content should appear into the "Matched Regular Expression" box, as shown below:



Edit Regular Expression Information

Regular Expression Name:	Default Regular Expression
Regular Expression Description:	Expression To Verify An E-mail Address
Regular Expression Content:	[-0-9a-zA-Z.+_]+@[-0-9a-zA-Z.+_]+\.[a-zA-Z]{2,4}
Add Content For Testing Regular Expression:	test@test.com
Matched Regular Expression:	test@test.com

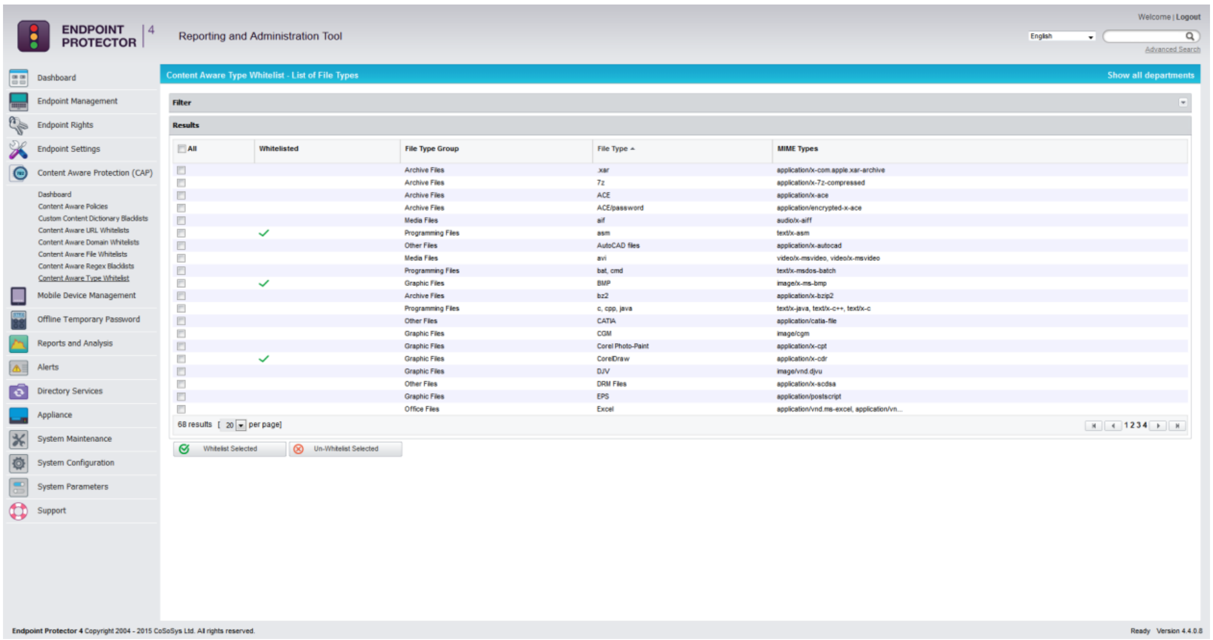
7.8. Content Aware Type Whitelist

Content Aware Type Whitelist allows the administrator to skip scanning the content of certain MIME types. This applies to Custom Content Dictionary, Predefined Content Dictionary and Regular Expressions Filter.

The purpose of this action would be to reduce false positive incidents such as Personal Identification Information (SSN, etc.) threats detected in metadata of some file types where the risk is very low (e.g. .dll, .exe).

First, when using this feature, a Content Aware Policy that uses a Custom Content Filter Blacklist has to be set up.

The next step is to navigate to “Content Aware Type Whitelist” and choose the exceptions that are required.



Content Aware Type Whitelist - List of File Types

□ All	Whitelisted	File Type Group	File Type ▲	MIME Types
□		Archive Files	.xar	application/x-com.apple.xar-archive
□		Archive Files	7z	application/x-7z-compressed
□		Archive Files	ACE	application/x-ace
□		Archive Files	ACE/password	application/encrypted-x-ace
□		Media Files	aif	audio/x-aiff
□	✓	Programming Files	asm	text/x-asm
□		Other Files	AutoCAD files	application/x-autocad
□		Media Files	avi	video/x-msvideo, video/x-msvideo
□		Programming Files	bat, cmd	text/x-msdos-batch
□	✓	Graphic Files	BMP	image/x-ms-bmp
□		Archive Files	bz2	application/x-bzip2
□		Programming Files	c, cpp, java	text/x-java, text/x-c++, text/x-c
□		Other Files	CATIA	application/catia-file
□		Graphic Files	CGM	image/cgm
□		Graphic Files	Corel Photo-Paint	application/x-cpt
□	✓	Graphic Files	CorelDraw	application/x-cdr
□		Graphic Files	DJV	image/vnd.djvu
□		Other Files	DRM Files	application/x-scdsa
□		Graphic Files	EPS	application/postscript
□		Office Files	Excel	application/vnd.ms-excel, application/vn...

68 results [20 per page] 1 2 3 4

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To select and apply the exceptions for the file type, simply tick the box to the left of each extension name, then save by clicking the Whitelist Selected button.

If the configuration is saved successfully, the ✓ symbol will be displayed to the left of the file type.

To remove the file type, simply select it and click on the Un-Whitelist Selected button.

This is a simple to use yet efficient feature that allows the system administrator more flexibility and also better filtration of data.

7.9. How Content Aware Protection works for monitored Applications / Online Services

The following table shows a list of actions and content that are screened/inspected or left unscreened/uninspected by the Content Aware Protection feature.

APPLICATION	SCREENED	NOT SCREENED
Web Browsers	Uploaded Files Webmail Attachments	Webpage Content Downloaded Content Blog Posts
E-MAIL Clients	File Attachments Microsoft Outlook E-MAIL Content Microsoft Outlook Forwarded and Saved Attachments Microsoft Outlook E-mailed directly from Windows Explorer Microsoft Outlook Copied Attachments from one E-MAIL to another Mozilla Thunderbird E-MAIL Content	E-MAIL Content for other E-MAIL Services Forwarded Attachments Saved Attachments Attachments e-mailed directly from Windows Explorer Copied Attachments from one E-MAIL to another
Instant Messaging	File Transfers Shared Picture Files	IM Message Content Sent Files
File Sharing	File Uploads	Saved Files
Social Media/Other	File Transfers	Blog Posts

*Other limitations may apply.

7.10. HIPAA compliant Content Aware Protection

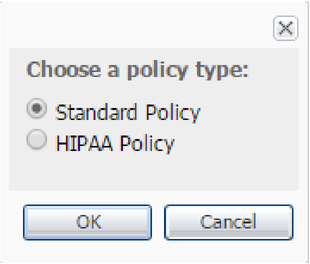
The Health Insurance Portability and Accountability Act (HIPAA) is a set of standards created to safeguard protected health information (PHI) by regulating healthcare providers. HIPAA was created in 1996 by the US Congress but it took the creation of a new act called HITECH (The Health Information Technology for Economic and Clinical Health Act) to ensure its effectiveness, starting from February 2010.

When it comes to audits, some requirement may be subject to interpretation but from an IT department point of view, compliance means setup of processes and controls that ensure security and integrity of PHI.

As HIPAA / HITECH compliancy also relate to things like employee trainings and physical access to the facilities (keys, access cards, tokens) data backup and disposal, Data Loss Prevention and Mobile Device Management solutions cannot solely ensure compliance.

7.10.1. How Endpoint Protector is HIPAA compliant

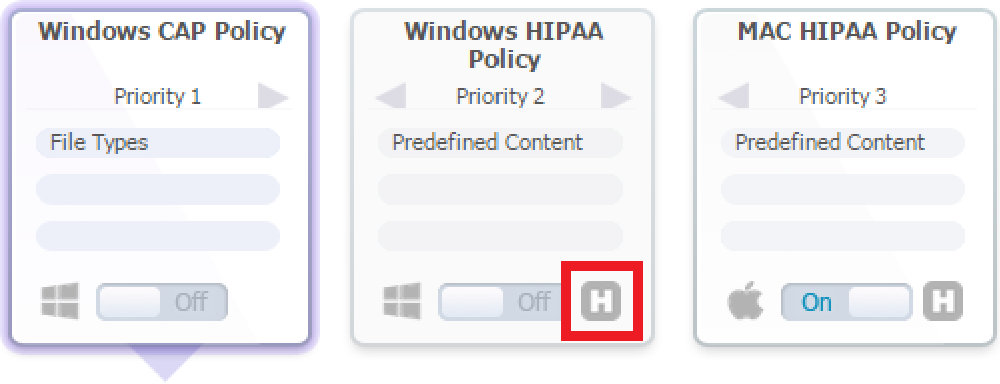
When a user decides to create a new Content Aware Protection, he is prompted with the possibility of creating a regular policy or a HIPAA policy.



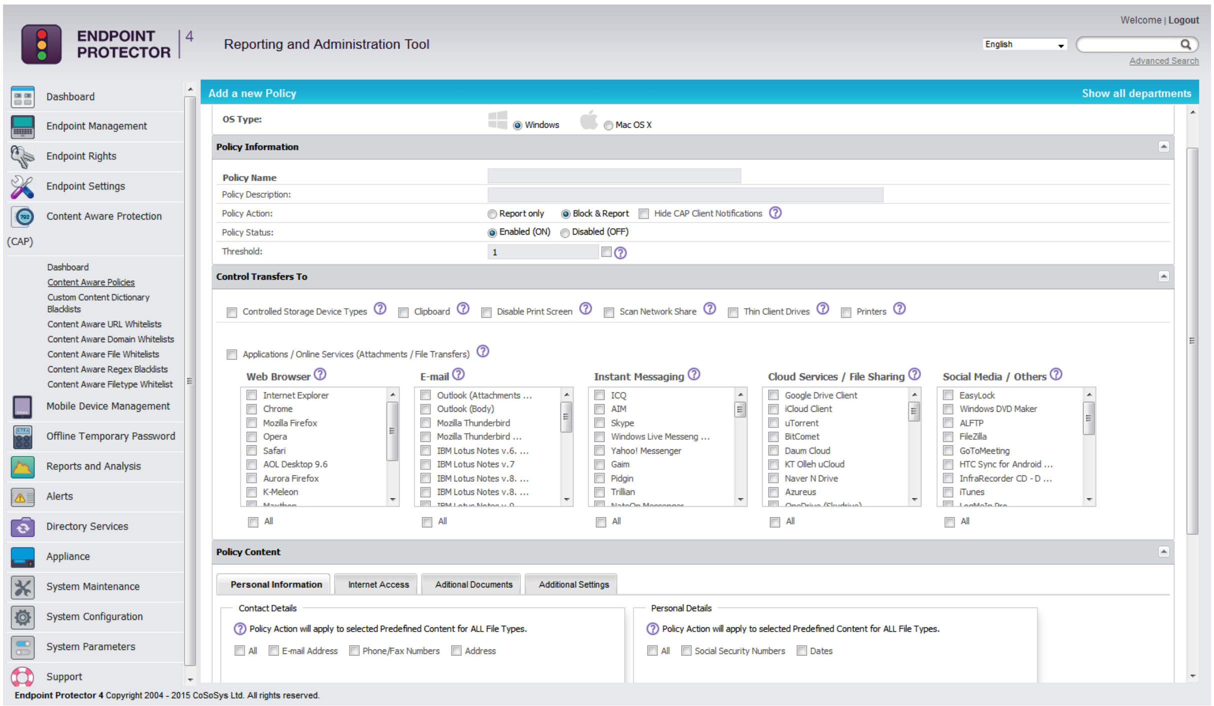
Choose a policy type:

● Standard Policy
○ HIPAA Policy

HIPAA policies can be created and used on their own or in combination with regular policies, for a better control of the data inside the network. These policies are active for both Windows and OS X clients and come predefined to block all the PHIs related to HIPAA compliance. They are marked in the bottom right corner of the policy tab with a distinctive H.



The inside of a policies’ menu looks like the below shown:



Add a new Policy

OS Type: ● Windows ○ Mac OS X

Policy Information

Policy Name

Policy Description:

Policy Action: ○ Report only ● Block & Report □ Hide CAP Client Notifications

Policy Status: ● Enabled (ON) ○ Disabled (OFF)

Threshold: 1 □

Control Transfers To

□ Controlled Storage Device Types □ Clipboard □ Disable Print Screen □ Scan Network Share □ Thin Client Drives □ Printers

□ Applications / Online Services (Attachments / File Transfers)

Web Browser
□ Internet Explorer
□ Chrome
□ Mozilla Firefox
□ Opera
□ Safari
□ AOL Desktop 9.6
□ Aurora Firefox
□ K-Meleon
□ Maxthon
□ All

E-mail
□ Outlook (Attachments ...
□ Outlook (Body)
□ Mozilla Thunderbird
□ Mozilla Thunderbird ...
□ IBM Lotus Notes v.6. ...
□ IBM Lotus Notes v.7
□ IBM Lotus Notes v.8. ...
□ IBM Lotus Notes v.8. ...
□ IBM Lotus Notes v.9
□ All

Instant Messaging
□ ICQ
□ AIM
□ Skype
□ Windows Live Messeng ...
□ Yahoo! Messenger
□ Gaim
□ Pidgin
□ Trillian
□ NateOn Messenger
□ All

Cloud Services / File Sharing
□ Google Drive Client
□ iCloud Client
□ uTorrent
□ BitComet
□ Daum Cloud
□ KT Olleh uCloud
□ Naver N Drive
□ Azureus
□ OneDrive (Skydrive)
□ All

Social Media / Others
□ EasyLock
□ Windows DVD Maker
□ ALFTP
□ FileZilla
□ GoToMeeting
□ HTC Sync for Android ...
□ InfraRecorder CD - D ...
□ iTunes
□ LogMeIn Pro
□ All

Policy Content

Contact Details

Policy Action will apply to selected Predefined Content for ALL File Types.

□ All □ E-mail Address □ Phone/Fax Numbers □ Address

Personal Details

Policy Action will apply to selected Predefined Content for ALL File Types.

□ All □ Social Security Numbers □ Dates

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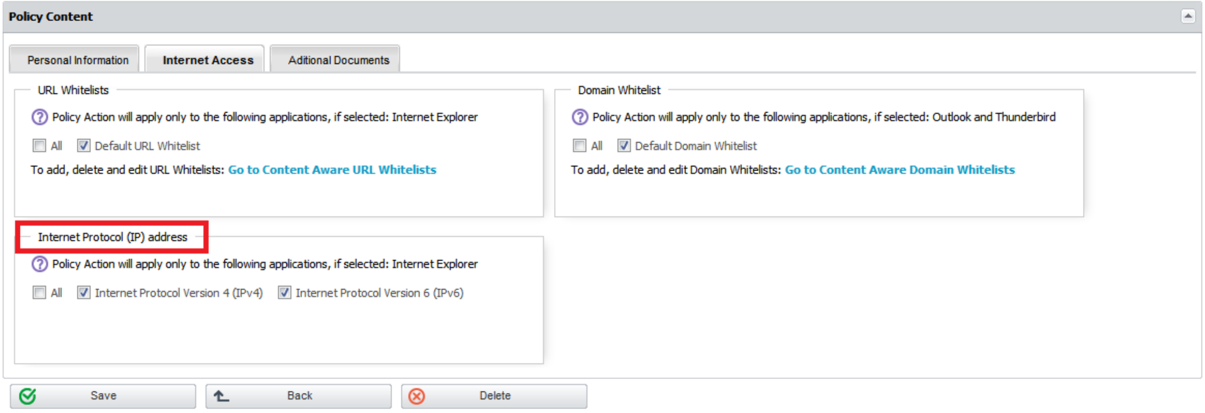
Most of the functionalities are identical to the workings of the regular Content Aware Protection policies, with a few notable exceptions:

- A HIPAA policy will scan in **ALL** the File Types recognized by Endpoint Protector. There are no exceptions
- The Personal Information details are preset to US standard formats (Address, Phone/Fax and Social Security Numbers)
- The Internet Access tab contains both IPv4 and IPv6 targets, as well as the URL and Domain Whitelist options



Policy Content

Personal Information | **Internet Access** | Aditional Documents

URL Whitelists

Policy Action will apply only to the following applications, if selected: Internet Explorer

□ All ☑ Default URL Whitelist

To add, delete and edit URL Whitelists: **Go to Content Aware URL Whitelists**

Domain Whitelist

Policy Action will apply only to the following applications, if selected: Outlook and Thunderbird

□ All ☑ Default Domain Whitelist

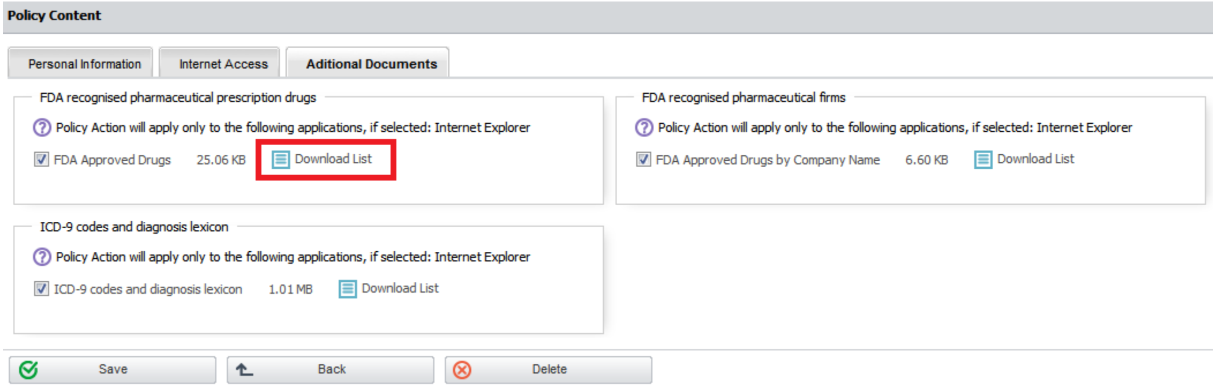
To add, delete and edit Domain Whitelists: **Go to Content Aware Domain Whitelists**

Internet Protocol (IP) address

Policy Action will apply only to the following applications, if selected: Internet Explorer

□ All ☑ Internet Protocol Version 4 (IPv4) ☑ Internet Protocol Version 6 (IPv6)

- The HIPAA compliant documents related to FDA approved drug names, companies and the complete list of ICD compliant diagnosis names can be targeted aswell as downloaded from the Additional Documents tab



Policy Content

Personal Information | Internet Access | **Aditional Documents**

FDA recognised pharmaceutical prescription drugs

Policy Action will apply only to the following applications, if selected: Internet Explorer

☑ FDA Approved Drugs 25.06 KB Download List

FDA recognised pharmaceutical firms

Policy Action will apply only to the following applications, if selected: Internet Explorer

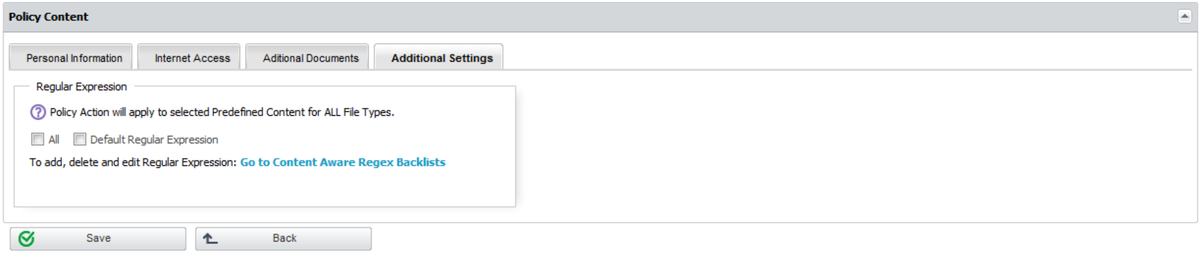
☑ FDA Approved Drugs by Company Name 6.60 KB Download List

ICD-9 codes and diagnosis lexicon

Policy Action will apply only to the following applications, if selected: Internet Explorer

☑ ICD-9 codes and diagnosis lexicon 1.01 MB Download List

- The Regular Expressions section must be accessed using the tab called Additional Settings, as seen below:



Policy Content

Personal Information | Internet Access | Aditional Documents | **Additional Settings**

Regular Expression

Policy Action will apply to selected Predefined Content for ALL File Types.

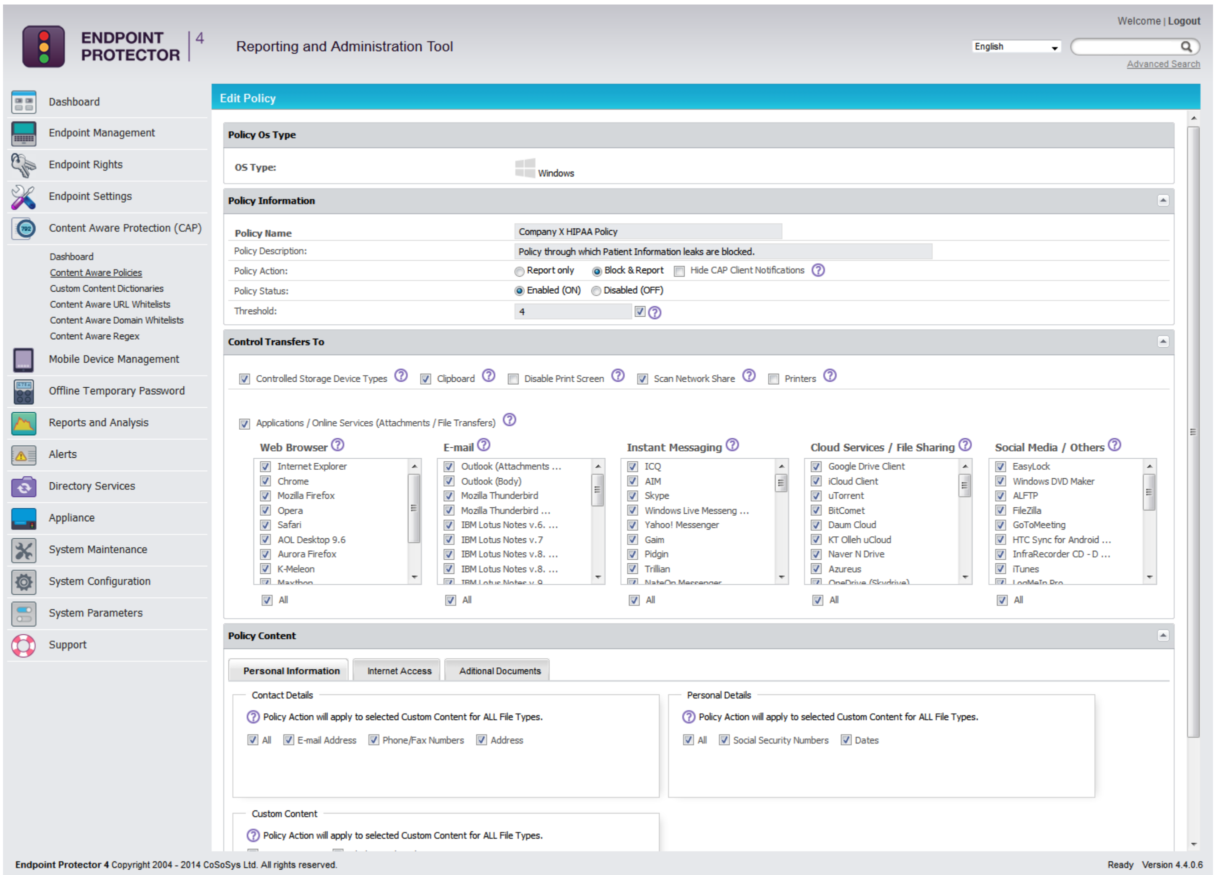
□ All □ Default Regular Expression

To add, delete and edit Regular Expression: **Go to Content Aware Regex Backlists**

7.10.2. Use Case Nr. 1

Suppose that Company X handles patient medical records that come in electronic formats and which contain generic 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:



Edit Policy

Policy Os Type

OS Type: Windows

Policy Information

Policy Name: Company X HIPAA Policy

Policy Description: Policy through which Patient Information leaks are blocked.

Policy Action: ○ Report only ● Block & Report ☐ Hide CAP Client Notifications

Policy Status: ● Enabled (ON) ○ Disabled (OFF)

Threshold: 4 ☑

Control Transfers To

☑ Controlled Storage Device Types ☑ Clipboard ☐ Disable Print Screen ☑ Scan Network Share ☐ Printers

☑ Applications / Online Services (Attachments / File Transfers)

Web Browser
- ☑ Internet Explorer
- ☑ Chrome
- ☑ Mozilla Firefox
- ☑ Opera
- ☑ Safari
- ☑ AOL Desktop 9.6
- ☑ Aurora Firefox
- ☑ K-Meleon
- ☑ Maxthon
- ☑ All

E-mail
- ☑ Outlook (Attachments ...
- ☑ Outlook (Body)
- ☑ Mozilla Thunderbird
- ☑ Mozilla Thunderbird ...
- ☑ IBM Lotus Notes v.6. ...
- ☑ IBM Lotus Notes v.7
- ☑ IBM Lotus Notes v.8. ...
- ☑ IBM Lotus Notes v.8. ...
- ☑ IBM Lotus Notes v.9
- ☑ All

Instant Messaging
- ☑ ICQ
- ☑ AIM
- ☑ Skype
- ☑ Windows Live Messeng ...
- ☑ Yahoo! Messenger
- ☑ Gaim
- ☑ Pidgin
- ☑ Trillian
- ☑ NateOn Messenger
- ☑ All

Cloud Services / File Sharing
- ☑ Google Drive Client
- ☑ iCloud Client
- ☑ uTorrent
- ☑ BitComet
- ☑ Daum Cloud
- ☑ KT Olleh uCloud
- ☑ Naver N Drive
- ☑ Azureus
- ☑ OneDrive (Skydrive)
- ☑ All

Social Media / Others
- ☑ EasyLock
- ☑ Windows DVD Maker
- ☑ ALFTP
- ☑ FileZilla
- ☑ GoToMeeting
- ☑ HTC Sync for Android ...
- ☑ InfraRecorder CD - D ...
- ☑ iTunes
- ☑ LogMeIn Pro
- ☑ All

Policy Content

Personal Information | Internet Access | Aditional Documents

Contact Details

Policy Action will apply to selected Custom Content for ALL File Types.

☑ All ☑ E-mail Address ☑ Phone/Fax Numbers ☑ Address

Personal Details

Policy Action will apply to selected Custom Content for ALL File Types.

☑ All ☑ Social Security Numbers ☑ Dates

Custom Content

Policy Action will apply to selected Custom Content for ALL File Types.

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Ready Version 4.4.0.6

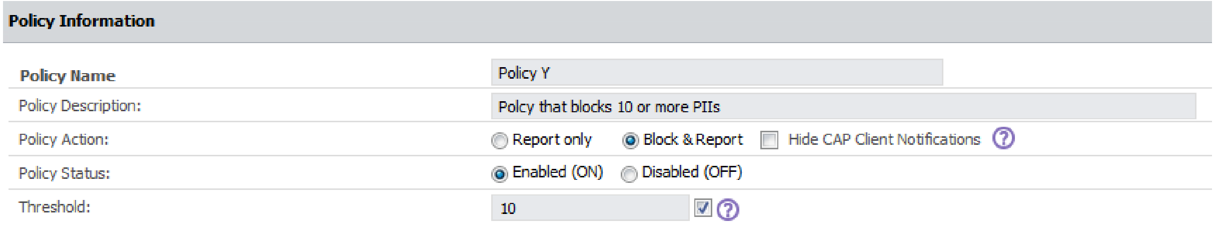
This policy is set on Block & Report with a Global Threshold of 4. It scans the Controlled Storage Device Types (which can be inspected from the System Parameters -> Device Types), the Clipboard and the Network Share aswell as all the database of applications recognized by Endpoint Protector. This policy 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

7.10.3. 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 Personally Identifiable Information (PII) items per patient. Other than these files, the company's staff regularly uses some file which contain three (3) of the same

PIIs per file. Company Y would like to block the leakage of the files database from its database that contain 10 or more items yet only report the transfer of the files containing 3 items.

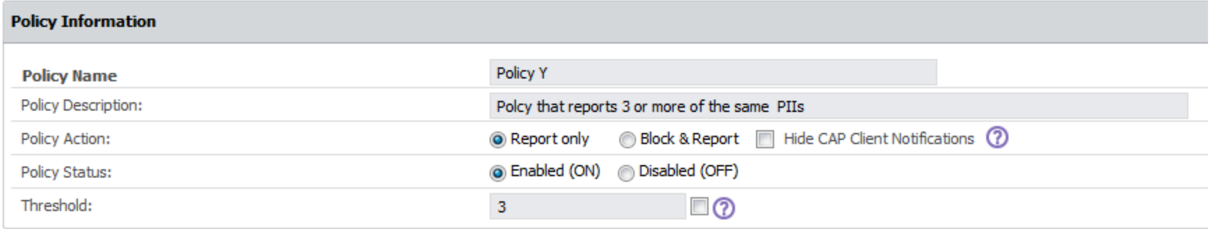
The administrator can setup a policy which will block the transfer of files containing 10 PII's by using a Global Threshold of 10, like in the policy shown below:



Policy Information

Policy Name	Policy Y
Policy Description:	Polcy that blocks 10 or more PIIs
Policy Action:	○ Report only ● Block & Report □ Hide CAP Client Notifications ?
Policy Status:	● Enabled (ON) ○ Disabled (OFF)
Threshold:	10 ☑ ?

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



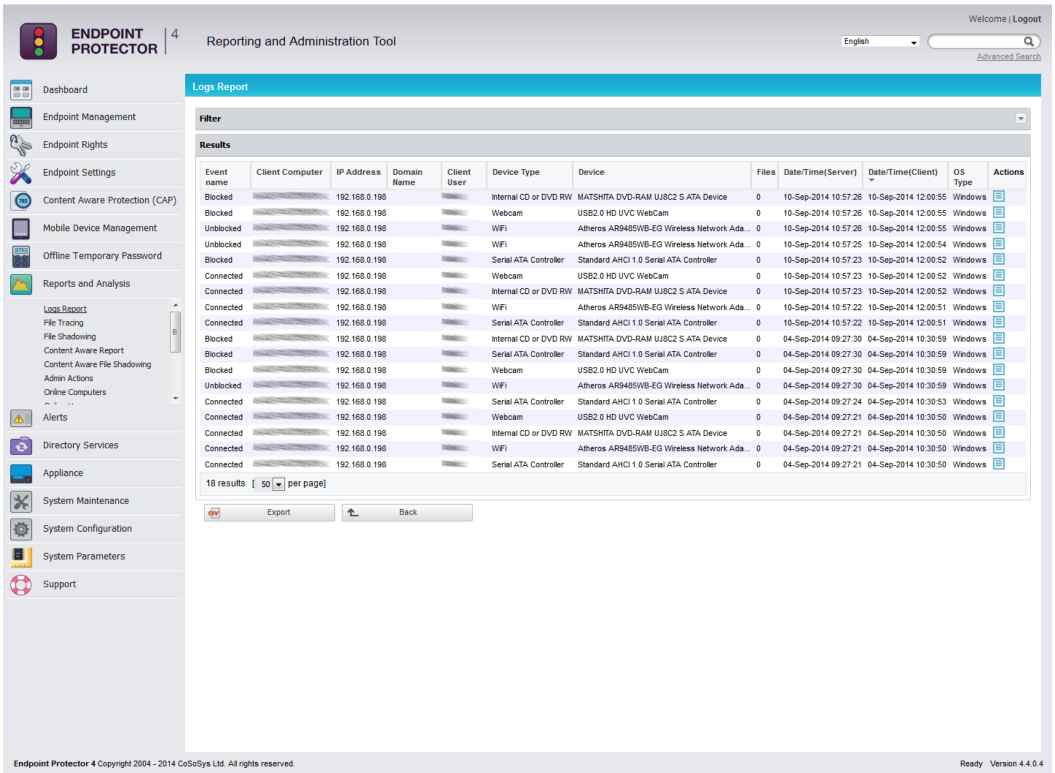
Policy Information

Policy Name	Policy Y
Policy Description:	Polcy that reports 3 or more of the same PIIs
Policy Action:	● Report only ○ Block & Report □ Hide CAP Client Notifications ?
Policy Status:	● Enabled (ON) ○ Disabled (OFF)
Threshold:	3 □ ?

Following our recommendations from subchapter 7.2.5, the Block & Report policy will have the 1st priority while the Report Only policy will be the 2nd.

8. Reports and Analysis

This module is designed to offer the administrator feedback regarding system functionality and information related to devices, users and computers in the entire system.



Event name	Client Computer	IP Address	Domain Name	Client User	Device Type	Device	Files	Date/Time(Server)	Date/Time(Client)	OS Type	Actions
Blocked	[redacted]	192.168.0.198		[redacted]	Internal CD or DVD RW	MATSHITA DVD-RAM UJ8C2 S ATA Device	0	10-Sep-2014 10:57:26	10-Sep-2014 12:00:55	Windows	☰
Blocked	[redacted]	192.168.0.198		[redacted]	Webcam	USB2.0 HD UVC WebCam	0	10-Sep-2014 10:57:26	10-Sep-2014 12:00:55	Windows	☰
Unblocked	[redacted]	192.168.0.198		[redacted]	WiFi	Atheros AR9485WB-EG Wireless Network Ada...	0	10-Sep-2014 10:57:26	10-Sep-2014 12:00:55	Windows	☰
Unblocked	[redacted]	192.168.0.198		[redacted]	WiFi	Atheros AR9485WB-EG Wireless Network Ada...	0	10-Sep-2014 10:57:25	10-Sep-2014 12:00:54	Windows	☰
Blocked	[redacted]	192.168.0.198		[redacted]	Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	0	10-Sep-2014 10:57:23	10-Sep-2014 12:00:52	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Webcam	USB2.0 HD UVC WebCam	0	10-Sep-2014 10:57:23	10-Sep-2014 12:00:52	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Internal CD or DVD RW	MATSHITA DVD-RAM UJ8C2 S ATA Device	0	10-Sep-2014 10:57:23	10-Sep-2014 12:00:52	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	WiFi	Atheros AR9485WB-EG Wireless Network Ada...	0	10-Sep-2014 10:57:22	10-Sep-2014 12:00:51	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	0	10-Sep-2014 10:57:22	10-Sep-2014 12:00:51	Windows	☰
Blocked	[redacted]	192.168.0.198		[redacted]	Internal CD or DVD RW	MATSHITA DVD-RAM UJ8C2 S ATA Device	0	04-Sep-2014 09:27:30	04-Sep-2014 10:30:59	Windows	☰
Blocked	[redacted]	192.168.0.198		[redacted]	Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	0	04-Sep-2014 09:27:30	04-Sep-2014 10:30:59	Windows	☰
Blocked	[redacted]	192.168.0.198		[redacted]	Webcam	USB2.0 HD UVC WebCam	0	04-Sep-2014 09:27:30	04-Sep-2014 10:30:59	Windows	☰
Unblocked	[redacted]	192.168.0.198		[redacted]	WiFi	Atheros AR9485WB-EG Wireless Network Ada...	0	04-Sep-2014 09:27:30	04-Sep-2014 10:30:59	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	0	04-Sep-2014 09:27:24	04-Sep-2014 10:30:53	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Webcam	USB2.0 HD UVC WebCam	0	04-Sep-2014 09:27:21	04-Sep-2014 10:30:50	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Internal CD or DVD RW	MATSHITA DVD-RAM UJ8C2 S ATA Device	0	04-Sep-2014 09:27:21	04-Sep-2014 10:30:50	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	WiFi	Atheros AR9485WB-EG Wireless Network Ada...	0	04-Sep-2014 09:27:21	04-Sep-2014 10:30:50	Windows	☰
Connected	[redacted]	192.168.0.198		[redacted]	Serial ATA Controller	Standard AHCI 1.0 Serial ATA Controller	0	04-Sep-2014 09:27:21	04-Sep-2014 10:30:50	Windows	☰

18 results [50 per page]

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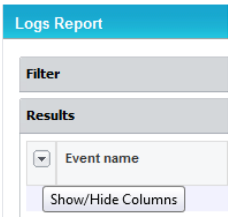
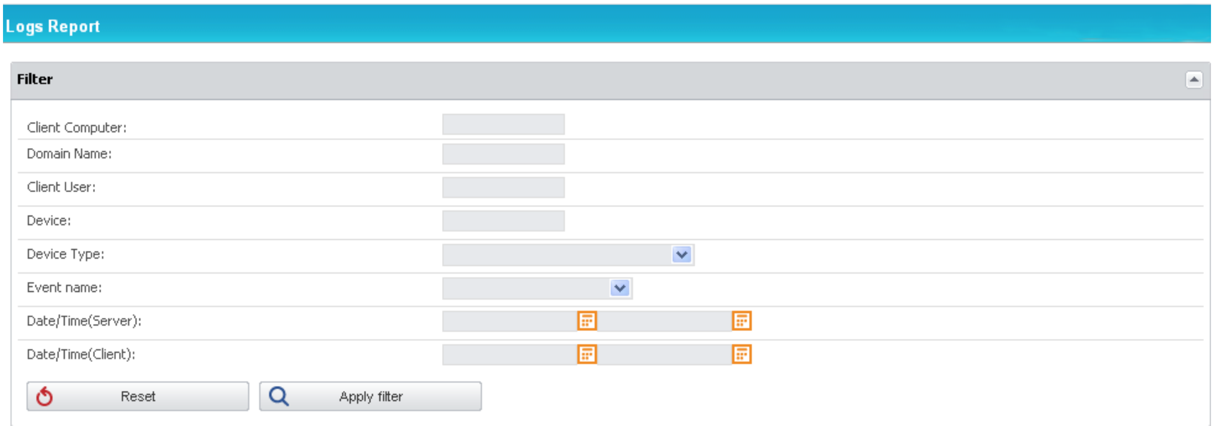
All tabs described below will have a filter option at the beginning of each table. This will add or remove columns based on the content considered relevant.



8.1. Logs Report

The most powerful and detailed representation of activity recordings can be achieved using this module. It allows the administrator to see exactly what actions took place at what time. This information also contains the computer name, user and device used and also the action taken and the files accessed.

The granular filter included in this module is designed to make finding information quick and easy.



Logs Report

Filter

Client Computer:

Domain Name:

Client User:

Device:

Device Type:

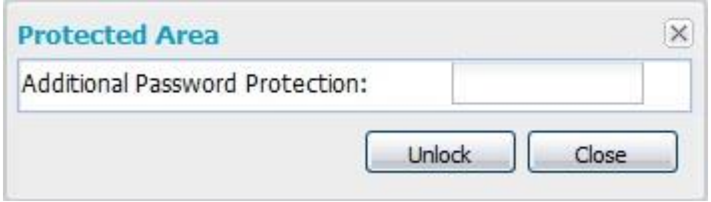
Event name:

Date/Time(Server):

Date/Time(Client):

The administrator has the possibility of exporting either the search results or the entire log report as a .CSV file, which can later be printed out for detailed analysis.

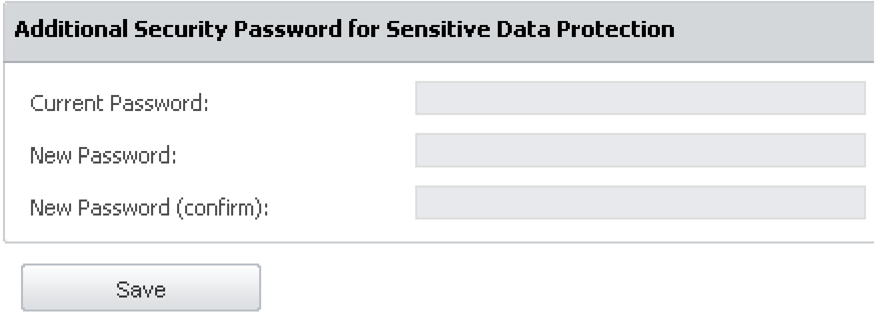
As an additional data security measure, this module may be protected by an additional password set by the Super Administrator.



Protected Area

Additional Password Protection:

The additional security password can be set from the System Configuration module, under the System Security tab and it applies to all the Reports and Analysis sections.



Additional Security Password for Sensitive Data Protection

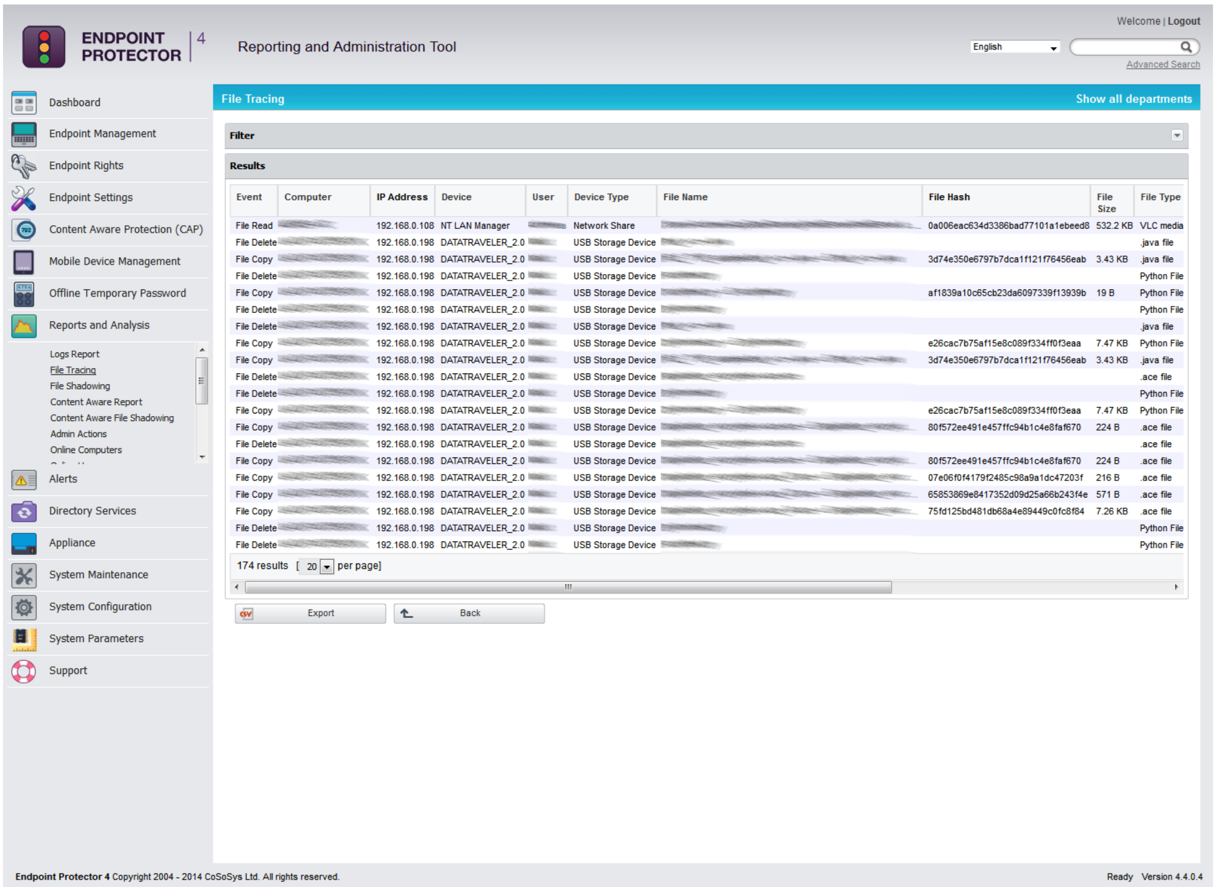
Current Password:

New Password:

New Password (confirm):

8.2. File Tracing

Displays the list of file properties traced of files that have been transferred from a protected computer to a portable device or another computer on the network, and vice versa. It also displays the original location of the transferred files if Detect Source Copy is activated from System Policies or Global Settings.



Event	Computer	IP Address	Device	User	Device Type	File Name	File Hash	File Size	File Type
File Read	[redacted]	192.168.0.108	NT LAN Manager	[redacted]	Network Share	[redacted]	0a006eac634d3386bad77101a1ebeed8	532.2 KB	VLC media
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			.java file
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	3d74e350e6797b7dca1f121f76456eab	3.43 KB	.java file
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			Python File
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	af1839a10c65cb23da6097339f13939b	19 B	Python File
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			Python File
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			.java file
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	e26cac7b75af15e8c089f334ff0f3eaa	7.47 KB	Python File
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	3d74e350e6797b7dca1f121f76456eab	3.43 KB	.java file
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			.ace file
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			Python File
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	e26cac7b75af15e8c089f334ff0f3eaa	7.47 KB	Python File
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	80f572ee491e457ffc94b1c4e8faf670	224 B	.ace file
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			.ace file
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	80f572ee491e457ffc94b1c4e8faf670	224 B	.ace file
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	07e06f0f4179f2485c98a9a1dc47203f	216 B	.ace file
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	65853869e8417352d09d25a66b243f4e	571 B	.ace file
File Copy	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]	75fd125bd481db68a4e89449c0fc8f84	7.26 KB	.ace file
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			Python File
File Delete	[redacted]	192.168.0.198	DATATRAVELER_2.0	[redacted]	USB Storage Device	[redacted]			Python File

174 results [20 per page]

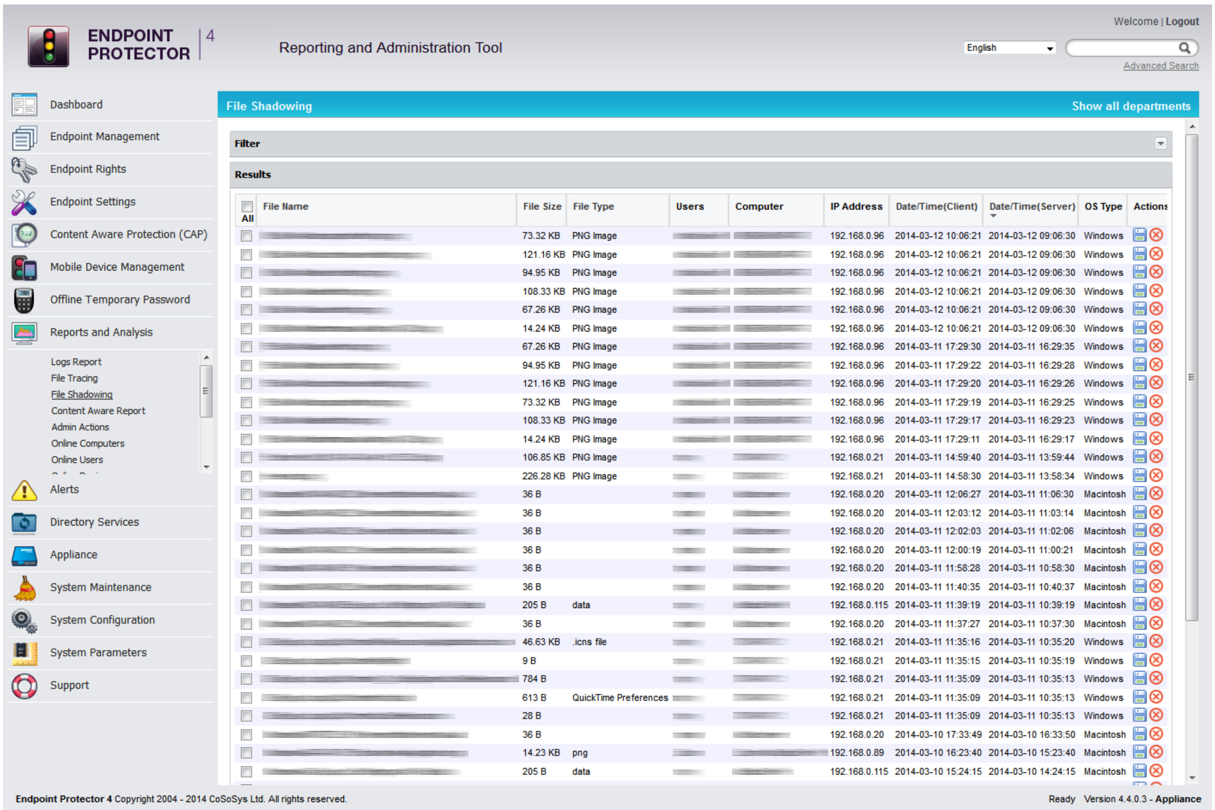
Similar with the Logs Reports section, you may need to enter an additional password set by the administrator in order to be able to access the list of files.

A special mention is given here to the “File Hash” column. The Endpoint Protector application computes an MD5 hash for most of the files on which the File Tracing feature applies to. By this way we ensure that threats coming from the changing of the content inside of files is mitigated.

8.3. File Shadowing

Displays the list of file shadows and files that have been transferred from a protected computer to a portable device. The list of files may be protected by an additional password set by the administrator. In this case, you will be prompted to insert the additional password when entering this section.

Additionally, the shadowed files can be saved locally on the Server by the Endpoint Protector administrator.



□ All	File Name	File Size	File Type	Users	Computer	IP Address	Date/Time(Client)	Date/Time(Server)	OS Type	Actions
□	[redacted]	73.32 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-12 10:06:21	2014-03-12 09:06:30	Windows	
□	[redacted]	121.16 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-12 10:06:21	2014-03-12 09:06:30	Windows	
□	[redacted]	94.95 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-12 10:06:21	2014-03-12 09:06:30	Windows	
□	[redacted]	108.33 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-12 10:06:21	2014-03-12 09:06:30	Windows	
□	[redacted]	67.26 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-12 10:06:21	2014-03-12 09:06:30	Windows	
□	[redacted]	14.24 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-12 10:06:21	2014-03-12 09:06:30	Windows	
□	[redacted]	67.26 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-11 17:29:30	2014-03-11 16:29:35	Windows	
□	[redacted]	94.95 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-11 17:29:22	2014-03-11 16:29:28	Windows	
□	[redacted]	121.16 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-11 17:29:20	2014-03-11 16:29:26	Windows	
□	[redacted]	73.32 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-11 17:29:19	2014-03-11 16:29:25	Windows	
□	[redacted]	108.33 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-11 17:29:17	2014-03-11 16:29:23	Windows	
□	[redacted]	14.24 KB	PNG Image	[redacted]	[redacted]	192.168.0.96	2014-03-11 17:29:11	2014-03-11 16:29:17	Windows	
□	[redacted]	106.85 KB	PNG Image	[redacted]	[redacted]	192.168.0.21	2014-03-11 14:59:40	2014-03-11 13:59:44	Windows	
□	[redacted]	226.28 KB	PNG Image	[redacted]	[redacted]	192.168.0.21	2014-03-11 14:58:30	2014-03-11 13:58:34	Windows	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 12:06:27	2014-03-11 11:06:30	Macintosh	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 12:03:12	2014-03-11 11:03:14	Macintosh	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 12:02:03	2014-03-11 11:02:06	Macintosh	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 12:00:19	2014-03-11 11:00:21	Macintosh	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 11:58:28	2014-03-11 10:58:30	Macintosh	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 11:40:35	2014-03-11 10:40:37	Macintosh	
□	[redacted]	205 B	data	[redacted]	[redacted]	192.168.0.115	2014-03-11 11:39:19	2014-03-11 10:39:19	Macintosh	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-11 11:37:27	2014-03-11 10:37:30	Macintosh	
□	[redacted]	46.63 KB	.icns file	[redacted]	[redacted]	192.168.0.21	2014-03-11 11:35:16	2014-03-11 10:35:20	Windows	
□	[redacted]	9 B		[redacted]	[redacted]	192.168.0.21	2014-03-11 11:35:15	2014-03-11 10:35:19	Windows	
□	[redacted]	784 B		[redacted]	[redacted]	192.168.0.21	2014-03-11 11:35:09	2014-03-11 10:35:13	Windows	
□	[redacted]	613 B	QuickTime Preferences	[redacted]	[redacted]	192.168.0.21	2014-03-11 11:35:09	2014-03-11 10:35:13	Windows	
□	[redacted]	28 B		[redacted]	[redacted]	192.168.0.21	2014-03-11 11:35:09	2014-03-11 10:35:13	Windows	
□	[redacted]	36 B		[redacted]	[redacted]	192.168.0.20	2014-03-10 17:33:49	2014-03-10 16:33:50	Macintosh	
□	[redacted]	14.23 KB	png	[redacted]	[redacted]	192.168.0.89	2014-03-10 16:23:40	2014-03-10 15:23:40	Macintosh	
□	[redacted]	205 B	data	[redacted]	[redacted]	192.168.0.115	2014-03-10 15:24:15	2014-03-10 14:24:15	Macintosh	

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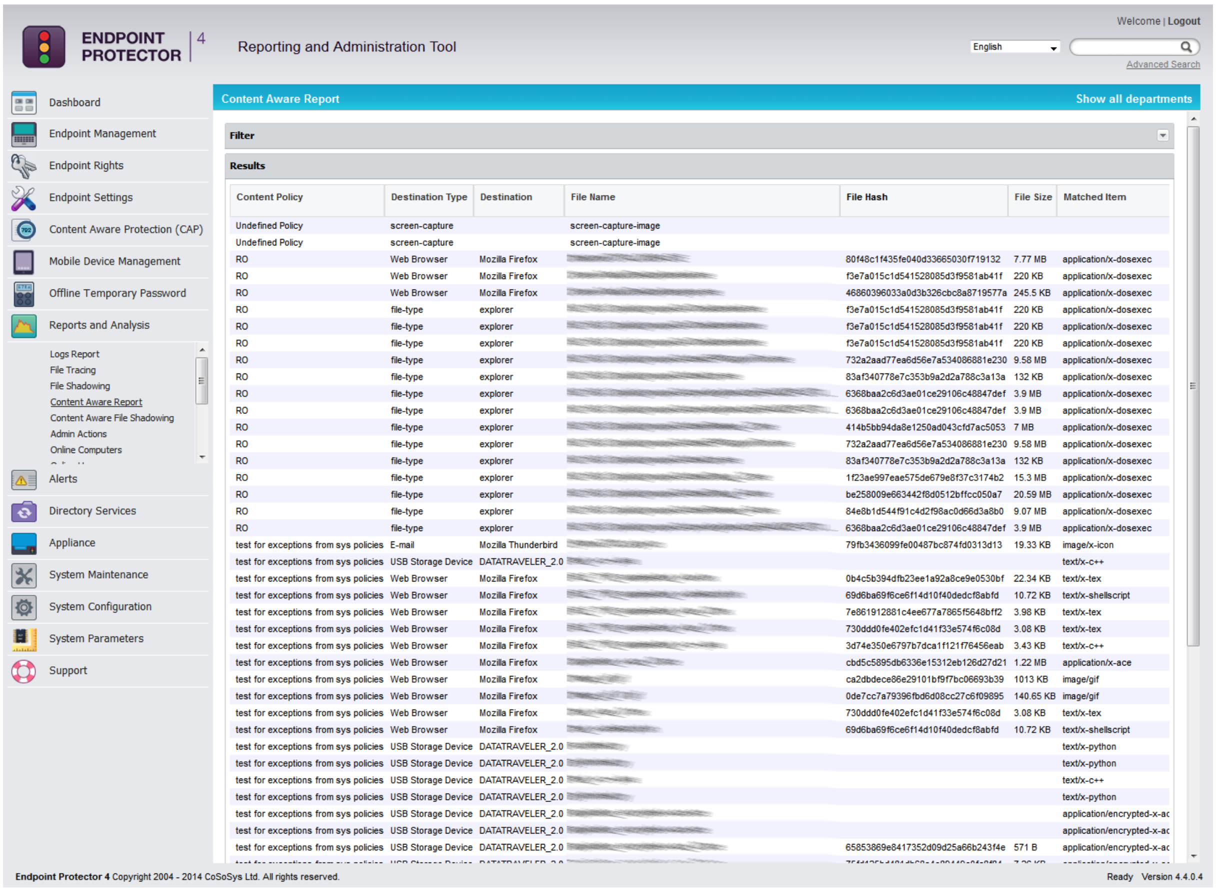
Ready Version 4.4.0.3 - Appliance

8.4. Content Aware Report

This module provides detailed logs of all Content Aware activity. It allows the administrator to see exactly what data incidents were detected corresponding to the Content Aware Policies applied and at what time. This information also contains the computer name, user and transfer destination type, the action taken and the file inspected. The included granular filter is designed to make finding information quick and easy.



Content Policy	Destination Type	Destination	File Name	File Hash	File Size	Matched Item
Undefined Policy	screen-capture		screen-capture-image			
Undefined Policy	screen-capture		screen-capture-image			
RO	Web Browser	Mozilla Firefox	[redacted]	80f48c1f435fe040d33665030f719132	7.77 MB	application/x-dosexec
RO	Web Browser	Mozilla Firefox	[redacted]	f3e7a015c1d541528085d3f9581ab41f	220 KB	application/x-dosexec
RO	Web Browser	Mozilla Firefox	[redacted]	46860396033a0d3b326cbc8a8719577a	245.5 KB	application/x-dosexec
RO	file-type	explorer	[redacted]	f3e7a015c1d541528085d3f9581ab41f	220 KB	application/x-dosexec
RO	file-type	explorer	[redacted]	f3e7a015c1d541528085d3f9581ab41f	220 KB	application/x-dosexec
RO	file-type	explorer	[redacted]	f3e7a015c1d541528085d3f9581ab41f	220 KB	application/x-dosexec
RO	file-type	explorer	[redacted]	732a2aad77ea6d56e7a534086881e230	9.58 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	83af340778e7c353b9a2d2a788c3a13a	132 KB	application/x-dosexec
RO	file-type	explorer	[redacted]	6368baa2c6d3ae01ce29106c48847def	3.9 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	6368baa2c6d3ae01ce29106c48847def	3.9 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	414b5bb94da8e1250ad043cfd7ac5053	7 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	732a2aad77ea6d56e7a534086881e230	9.58 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	83af340778e7c353b9a2d2a788c3a13a	132 KB	application/x-dosexec
RO	file-type	explorer	[redacted]	1f23ae997eae575de679e8f37c3174b2	15.3 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	be258009e663442f8d0512bffcc050a7	20.59 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	84e8b1d544f91c4d2f98ac0d66d3a8b0	9.07 MB	application/x-dosexec
RO	file-type	explorer	[redacted]	6368baa2c6d3ae01ce29106c48847def	3.9 MB	application/x-dosexec
test for exceptions from sys policies	E-mail	Mozilla Thunderbird	[redacted]	79fb3436099fe00487bc874fd0313d13	19.33 KB	image/x-icon
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			text/x-c++
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	0b4c5b394dfb23ee1a92a8ce9e0530bf	22.34 KB	text/x-tex
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	69d6ba69f6ce6f14d10f40dedcf8abfd	10.72 KB	text/x-shellscript
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	7e861912881c4ee677a7865f5648bff2	3.98 KB	text/x-tex
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	730ddd0fe402efc1d41f33e574f6c08d	3.08 KB	text/x-tex
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	3d74e350e6797b7dca1f121f76456eab	3.43 KB	text/x-c++
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	cbd5c5895db6336e15312eb126d27d21	1.22 MB	application/x-ace
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	ca2dbdece86e29101bf9f7bc06693b39	1013 KB	image/gif
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	0de7cc7a79396fbd6d08cc27c6f09895	140.65 KB	image/gif
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	730ddd0fe402efc1d41f33e574f6c08d	3.08 KB	text/x-tex
test for exceptions from sys policies	Web Browser	Mozilla Firefox	[redacted]	69d6ba69f6ce6f14d10f40dedcf8abfd	10.72 KB	text/x-shellscript
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			text/x-python
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			text/x-python
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			text/x-c++
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			text/x-python
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			application/encrypted-x-ac
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]			application/encrypted-x-ac
test for exceptions from sys policies	USB Storage Device	DATATRAVELER_2.0	[redacted]	65853869e8417352d09d25a66b243f4e	571 B	application/encrypted-x-ac

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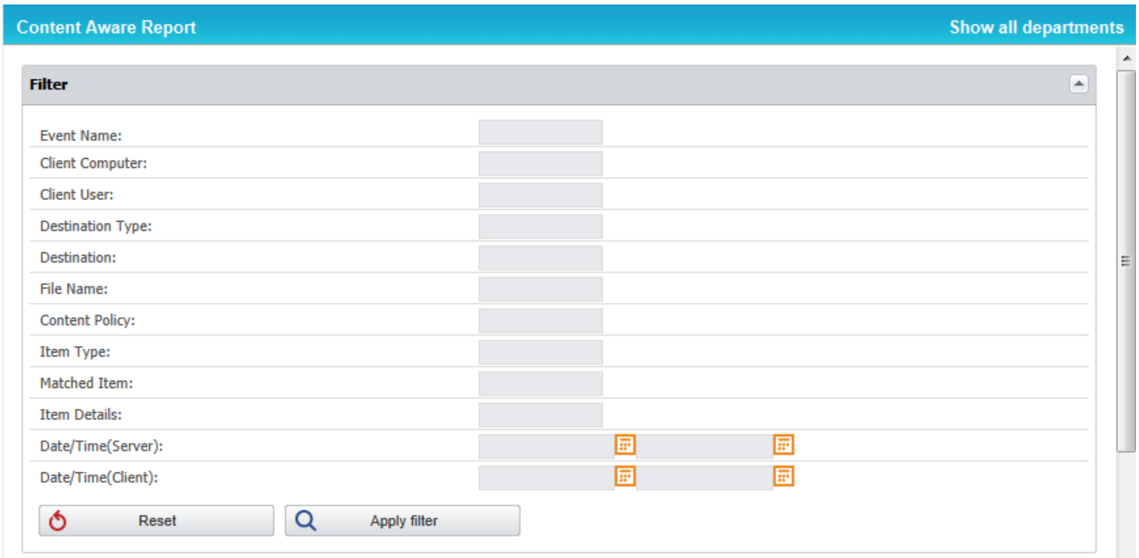
The administrator has the possibility of exporting both the search results and the entire log report as a .CSV file, which can later be printed out for detailed auditing.

As an additional data security measure, this module may be protected by an additional password set by the Super Administrator. For more details, please see section 8.1. Logs Report.



Content Aware Report

Show all departments

Filter

Event Name:

Client Computer:

Client User:

Destination Type:

Destination:

File Name:

Content Policy:

Item Type:

Matched Item:

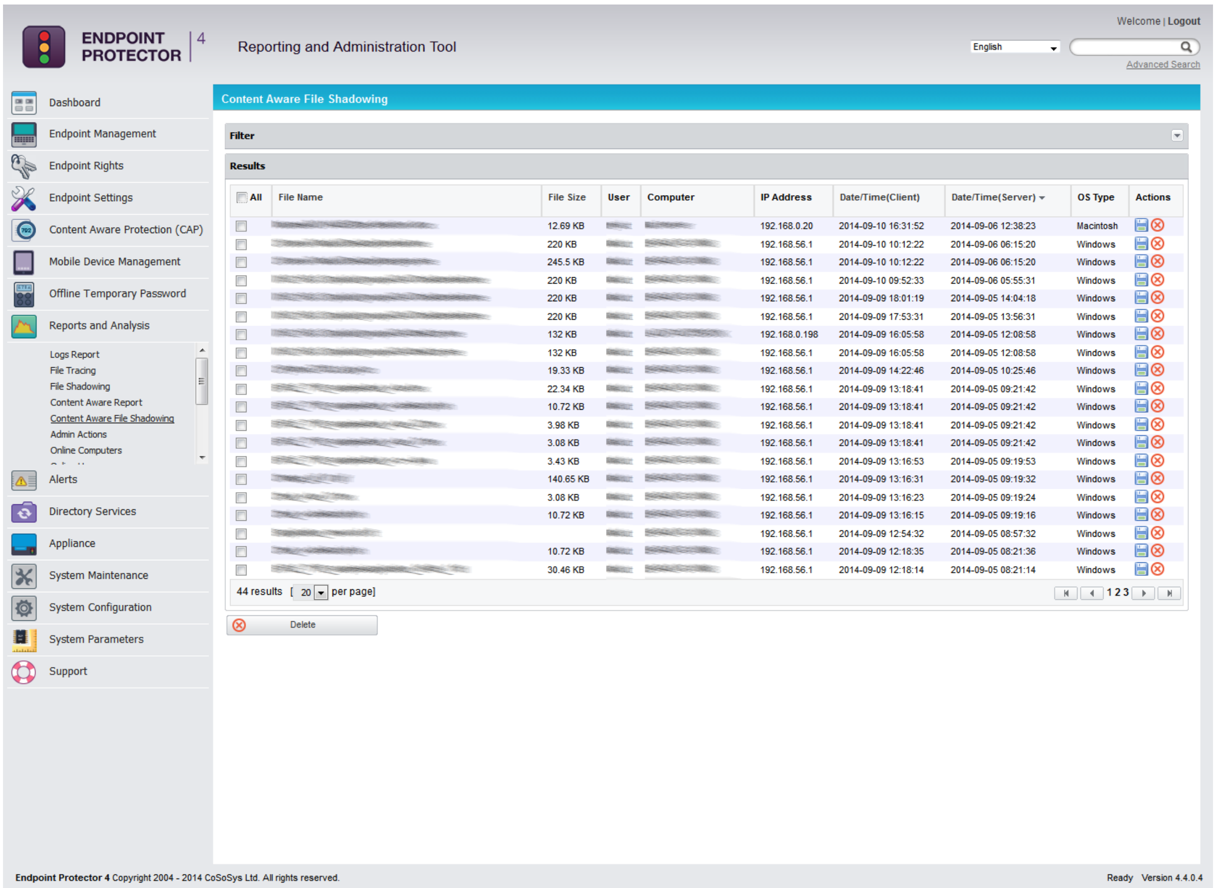
Item Details:

Date/Time(Server):

Date/Time(Client):

8.5. Content Aware File Shadowing

Displays the list of file shadows and files that have been detected by a Content Aware policy. The list of files may be protected by the additional password set by the administrator for all the Reports and Analysis sections. In this case, you will be prompted to insert the additional password when entering this section.



Content Aware File Shadowing

Filter

Results

□ All	File Name	File Size	User	Computer	IP Address	Date/Time(Client)	Date/Time(Server)	OS Type	Actions
□	[redacted]	12.69 KB	[redacted]	[redacted]	192.168.0.20	2014-09-10 16:31:52	2014-09-06 12:38:23	Macintosh	
□	[redacted]	220 KB	[redacted]	[redacted]	192.168.56.1	2014-09-10 10:12:22	2014-09-06 06:15:20	Windows	
□	[redacted]	245.5 KB	[redacted]	[redacted]	192.168.56.1	2014-09-10 10:12:22	2014-09-06 06:15:20	Windows	
□	[redacted]	220 KB	[redacted]	[redacted]	192.168.56.1	2014-09-10 09:52:33	2014-09-06 05:55:31	Windows	
□	[redacted]	220 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 18:01:19	2014-09-05 14:04:18	Windows	
□	[redacted]	220 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 17:53:31	2014-09-05 13:56:31	Windows	
□	[redacted]	132 KB	[redacted]	[redacted]	192.168.0.198	2014-09-09 16:05:58	2014-09-05 12:08:58	Windows	
□	[redacted]	132 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 16:05:58	2014-09-05 12:08:58	Windows	
□	[redacted]	19.33 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 14:22:46	2014-09-05 10:25:46	Windows	
□	[redacted]	22.34 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:18:41	2014-09-05 09:21:42	Windows	
□	[redacted]	10.72 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:18:41	2014-09-05 09:21:42	Windows	
□	[redacted]	3.98 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:18:41	2014-09-05 09:21:42	Windows	
□	[redacted]	3.08 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:18:41	2014-09-05 09:21:42	Windows	
□	[redacted]	3.43 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:16:53	2014-09-05 09:19:53	Windows	
□	[redacted]	140.65 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:16:31	2014-09-05 09:19:32	Windows	
□	[redacted]	3.08 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:16:23	2014-09-05 09:19:24	Windows	
□	[redacted]	10.72 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 13:16:15	2014-09-05 09:19:16	Windows	
□	[redacted]		[redacted]	[redacted]	192.168.56.1	2014-09-09 12:54:32	2014-09-05 08:57:32	Windows	
□	[redacted]	10.72 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 12:18:35	2014-09-05 08:21:36	Windows	
□	[redacted]	30.46 KB	[redacted]	[redacted]	192.168.56.1	2014-09-09 12:18:14	2014-09-05 08:21:14	Windows	

44 results [20 per page]

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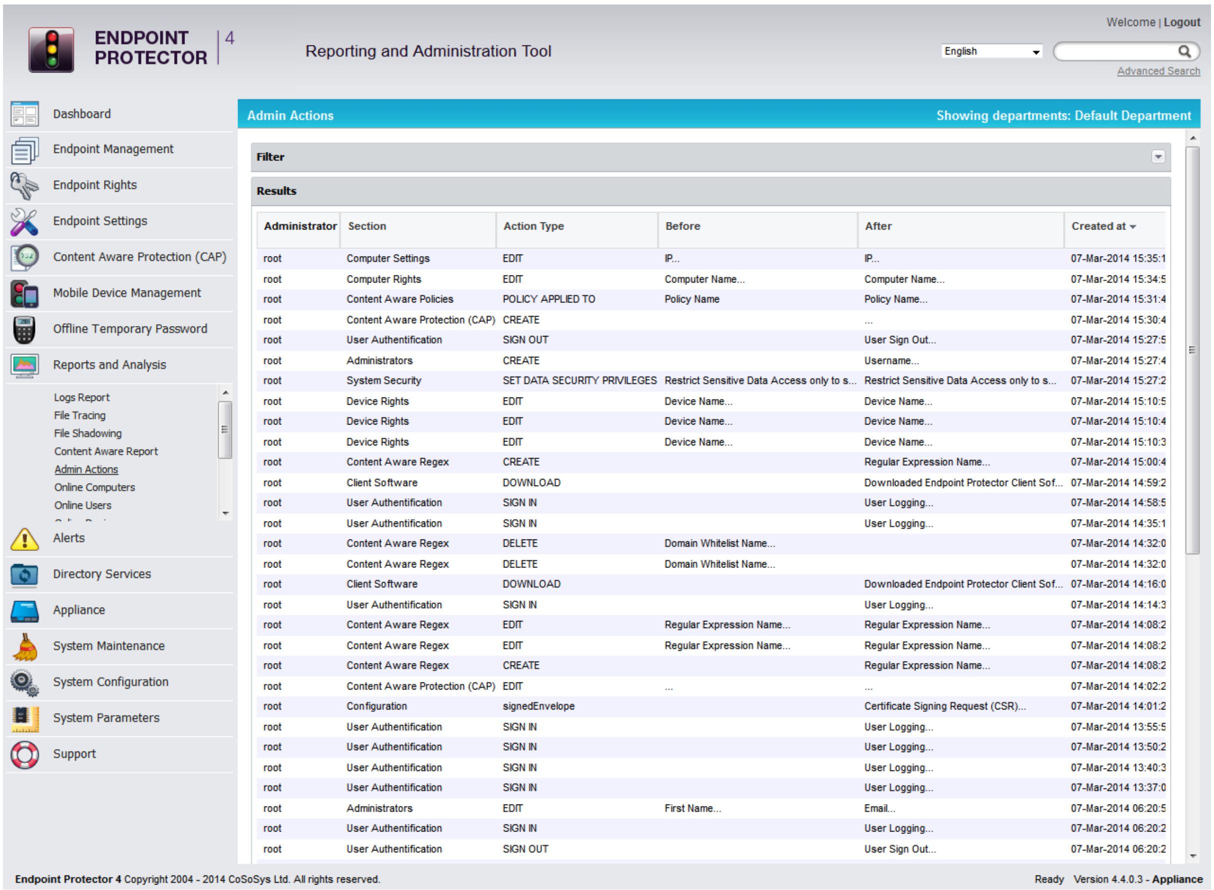
8.6. Admin Actions

Every important action performed by administrators in the interface is recorded. Clicking the “view details” button will open the “Admin Actions Details” page where further details about the specific event is shown, with the status of the modified feature before and after the change took place.



Administrator	Section	Action Type	Before	After	Created at
root	Computer Settings	EDIT	IP...	IP...	07-Mar-2014 15:35:1
root	Computer Rights	EDIT	Computer Name...	Computer Name...	07-Mar-2014 15:34:5
root	Content Aware Policies	POLICY APPLIED TO	Policy Name	Policy Name...	07-Mar-2014 15:31:4
root	Content Aware Protection (CAP)	CREATE		...	07-Mar-2014 15:30:4
root	User Authentification	SIGN OUT		User Sign Out...	07-Mar-2014 15:27:5
root	Administrators	CREATE		Username...	07-Mar-2014 15:27:4
root	System Security	SET DATA SECURITY PRIVILEGES	Restrict Sensitive Data Access only to s...	Restrict Sensitive Data Access only to s...	07-Mar-2014 15:27:2
root	Device Rights	EDIT	Device Name...	Device Name...	07-Mar-2014 15:10:5
root	Device Rights	EDIT	Device Name...	Device Name...	07-Mar-2014 15:10:4
root	Device Rights	EDIT	Device Name...	Device Name...	07-Mar-2014 15:10:3
root	Content Aware Regex	CREATE		Regular Expression Name...	07-Mar-2014 15:00:4
root	Client Software	DOWNLOAD		Downloaded Endpoint Protector Client Sof...	07-Mar-2014 14:59:2
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 14:58:5
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 14:35:1
root	Content Aware Regex	DELETE	Domain Whitelist Name...		07-Mar-2014 14:32:0
root	Content Aware Regex	DELETE	Domain Whitelist Name...		07-Mar-2014 14:32:0
root	Client Software	DOWNLOAD		Downloaded Endpoint Protector Client Sof...	07-Mar-2014 14:16:0
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 14:14:3
root	Content Aware Regex	EDIT	Regular Expression Name...	Regular Expression Name...	07-Mar-2014 14:08:2
root	Content Aware Regex	EDIT	Regular Expression Name...	Regular Expression Name...	07-Mar-2014 14:08:2
root	Content Aware Regex	CREATE		Regular Expression Name...	07-Mar-2014 14:08:2
root	Content Aware Protection (CAP)	EDIT	...	...	07-Mar-2014 14:02:2
root	Configuration	signedEnvelope		Certificate Signing Request (CSR)...	07-Mar-2014 14:01:2
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 13:55:5
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 13:50:2
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 13:40:3
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 13:37:0
root	Administrators	EDIT	First Name...	Email...	07-Mar-2014 06:20:5
root	User Authentification	SIGN IN		User Logging...	07-Mar-2014 06:20:2
root	User Authentification	SIGN OUT		User Sign Out...	07-Mar-2014 06:20:2

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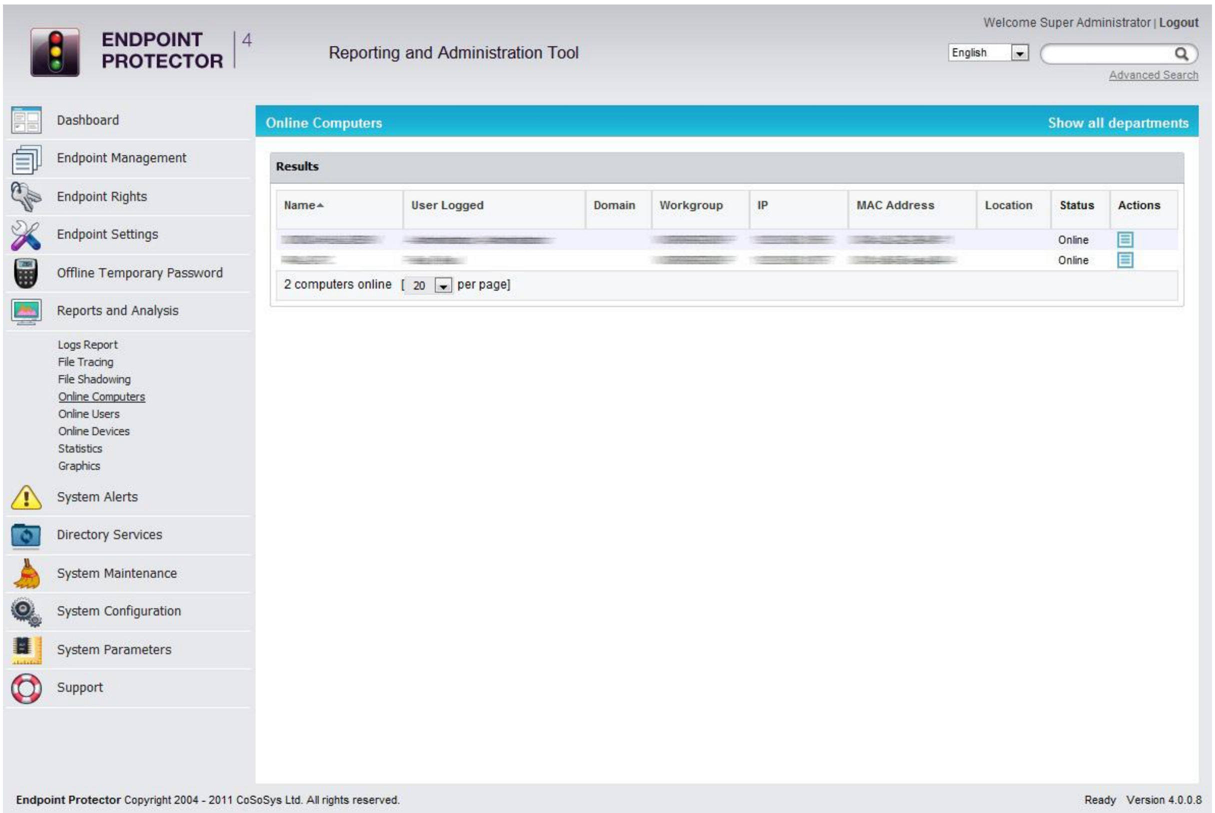
The logs can be exported in a .csv file, while the filter can help find the desired information quickly and easily.

8.7. Online Computers



Name▲	User Logged	Domain	Workgroup	IP	MAC Address	Location	Status	Actions
[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		Online	☰
[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		Online	☰

2 computers online [20 per page]

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Ready Version 4.0.0.8

Offers real time* monitoring of the client computers registered on the system which have an established connection with the server.

*depends on the Refresh Interval; if the Refresh Interval for computer X is 1 minute, than the computer X was communicating with the server in the last 1 minute.

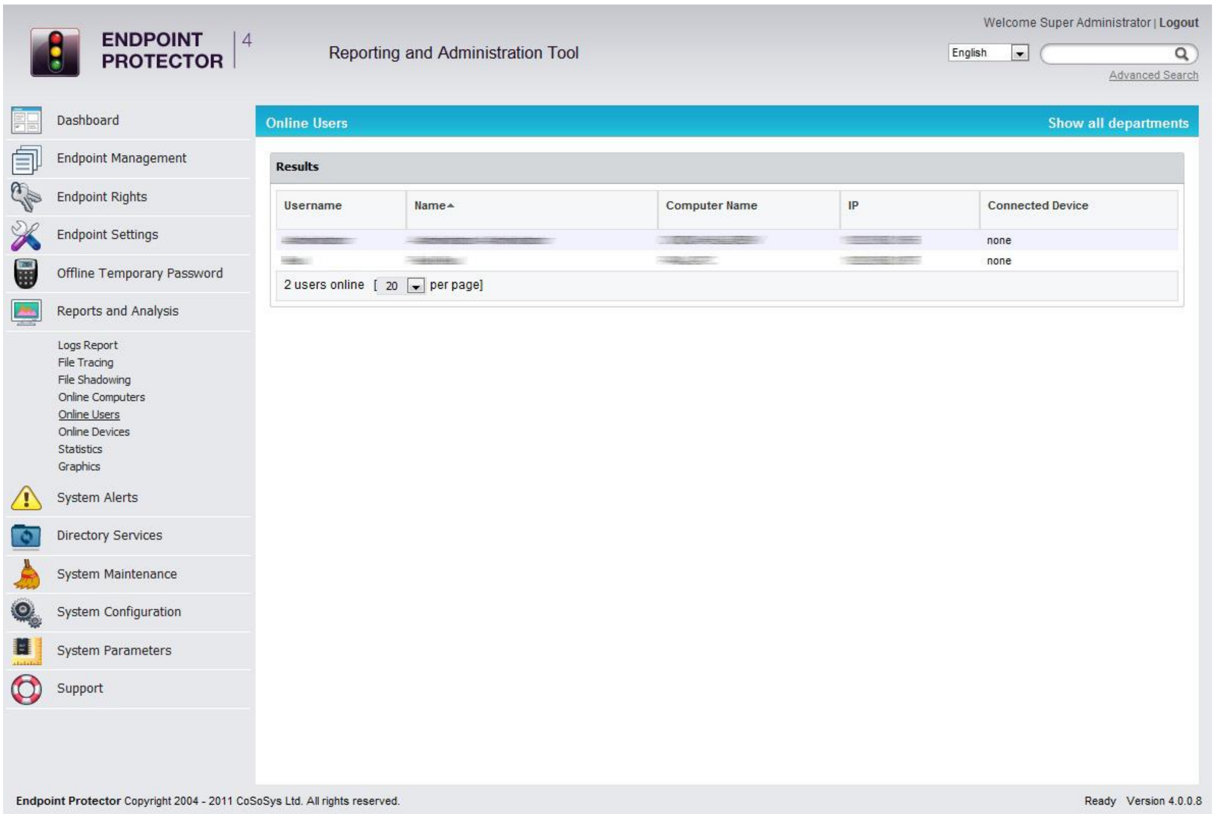
The administrator has the possibility of accessing the log for a certain computer by pressing the "View Logs" action button.

☰

Pressing this button will take you to the logs report where it will only display the actions of that specific computer for which the button was pushed.

8.8. Online Users

Shows a list of users that are connected to the Endpoint Protector Server in real time.



Username	Name▲	Computer Name	IP	Connected Device
[redacted]	[redacted]	[redacted]	[redacted]	none
[redacted]	[redacted]	[redacted]	[redacted]	none

2 users online [20 per page]

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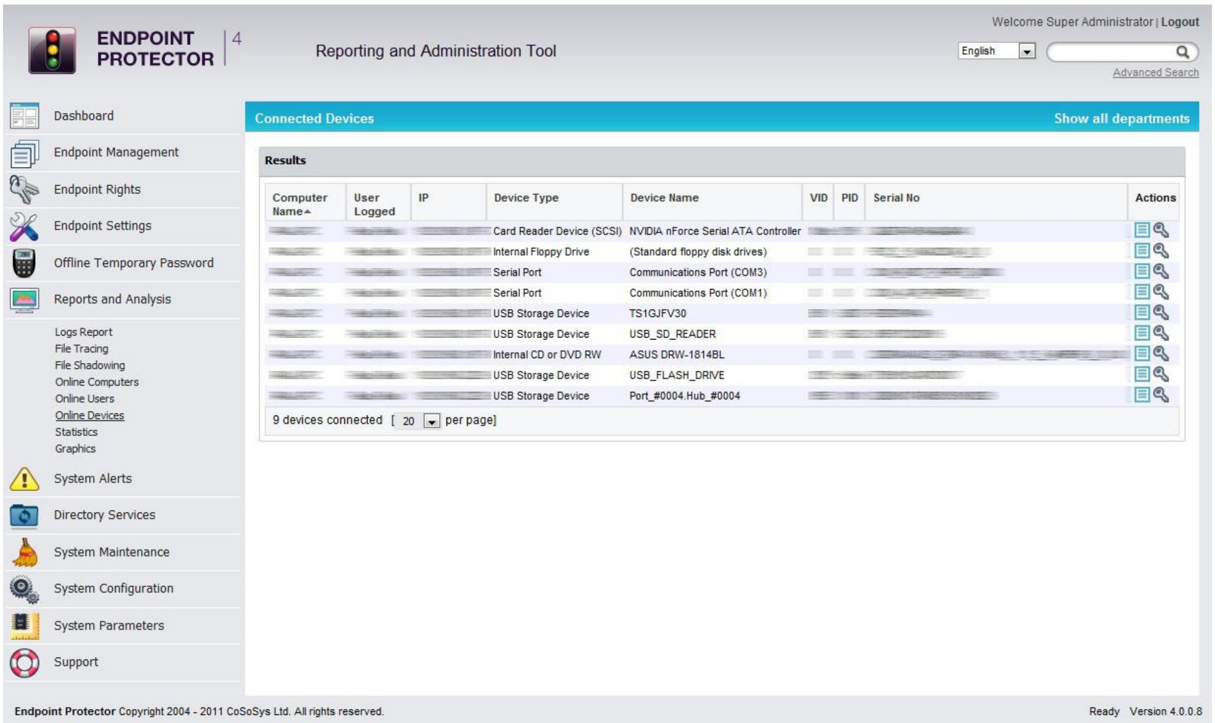
Ready Version 4.0.0.8

8.9. Online Devices

Offers information regarding the devices connected to the computers on the system.



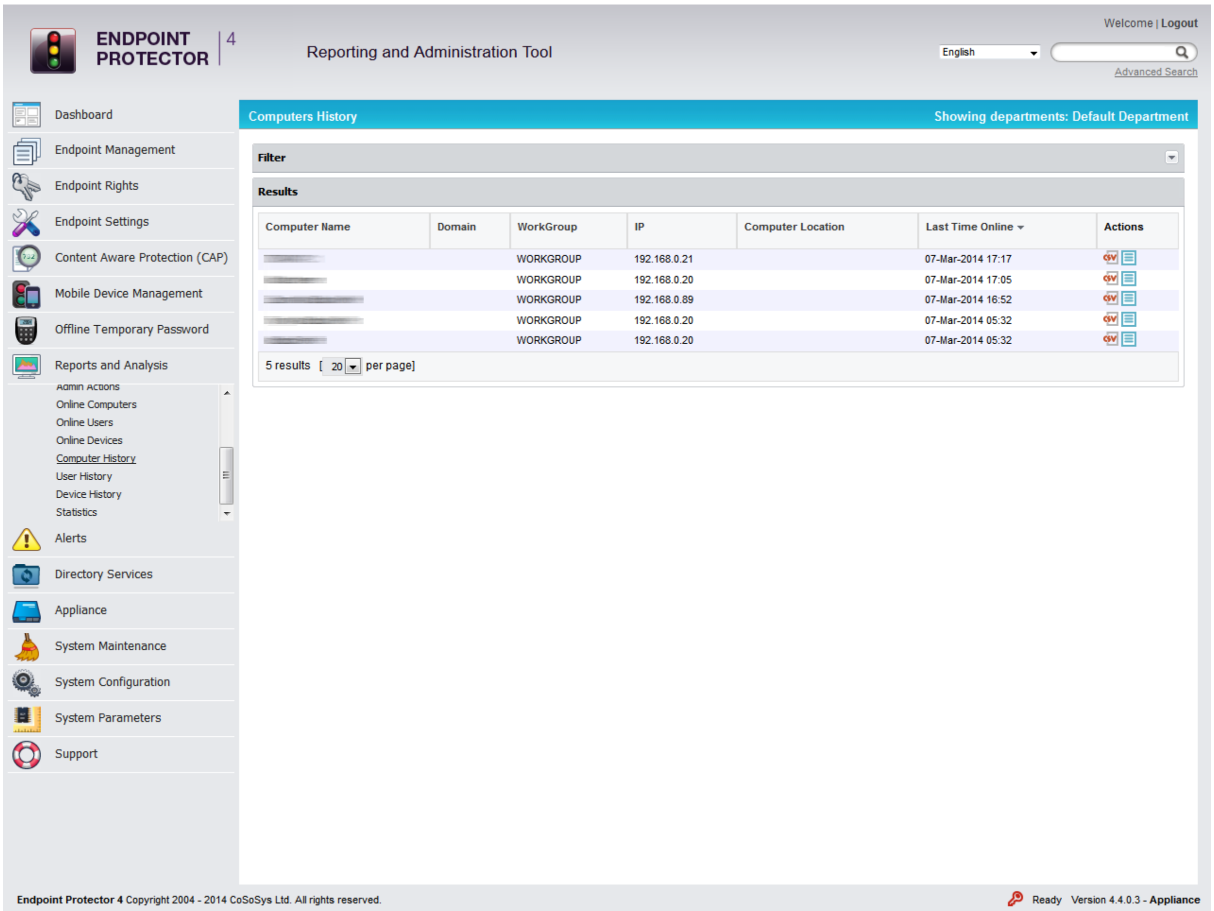
Computer Name▲	User Logged	IP	Device Type	Device Name	VID	PID	Serial No	Actions
[redacted]	[redacted]	[redacted]	Card Reader Device (SCSI)	NVIDIA nForce Serial ATA Controller	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	Internal Floppy Drive	(Standard floppy disk drives)	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	Serial Port	Communications Port (COM3)	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	Serial Port	Communications Port (COM1)	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	USB Storage Device	TS1GJFV30	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	USB Storage Device	USB_SD_READER	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	Internal CD or DVD RW	ASUS DRW-1814BL	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	USB Storage Device	USB_FLASH_DRIVE	[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	USB Storage Device	Port_#0004.Hub_#0004	[redacted]	[redacted]	[redacted]	

9 devices connected [20 per page]

The administrator can see which devices are connected to what computers and also the client user who is accessing them. The administrator can also use the action buttons "View Logs" and "Manage Rights" to quickly administer the device.

8.10. Computer History

This module shows all computers that were at least once connected to the server. With the help of the "Export" button the logs can be saved to a .csv file, while pressing the "View Machine log" will show the Logs Report page filtered for the respective Computer.



Computers History — Showing departments: Default Department

Computer Name	Domain	WorkGroup	IP	Computer Location	Last Time Online	Actions
[redacted]		WORKGROUP	192.168.0.21		07-Mar-2014 17:17	CSV ▤
[redacted]		WORKGROUP	192.168.0.20		07-Mar-2014 17:05	CSV ▤
[redacted]		WORKGROUP	192.168.0.89		07-Mar-2014 16:52	CSV ▤
[redacted]		WORKGROUP	192.168.0.20		07-Mar-2014 05:32	CSV ▤
[redacted]		WORKGROUP	192.168.0.20		07-Mar-2014 05:32	CSV ▤

5 results [20 per page]

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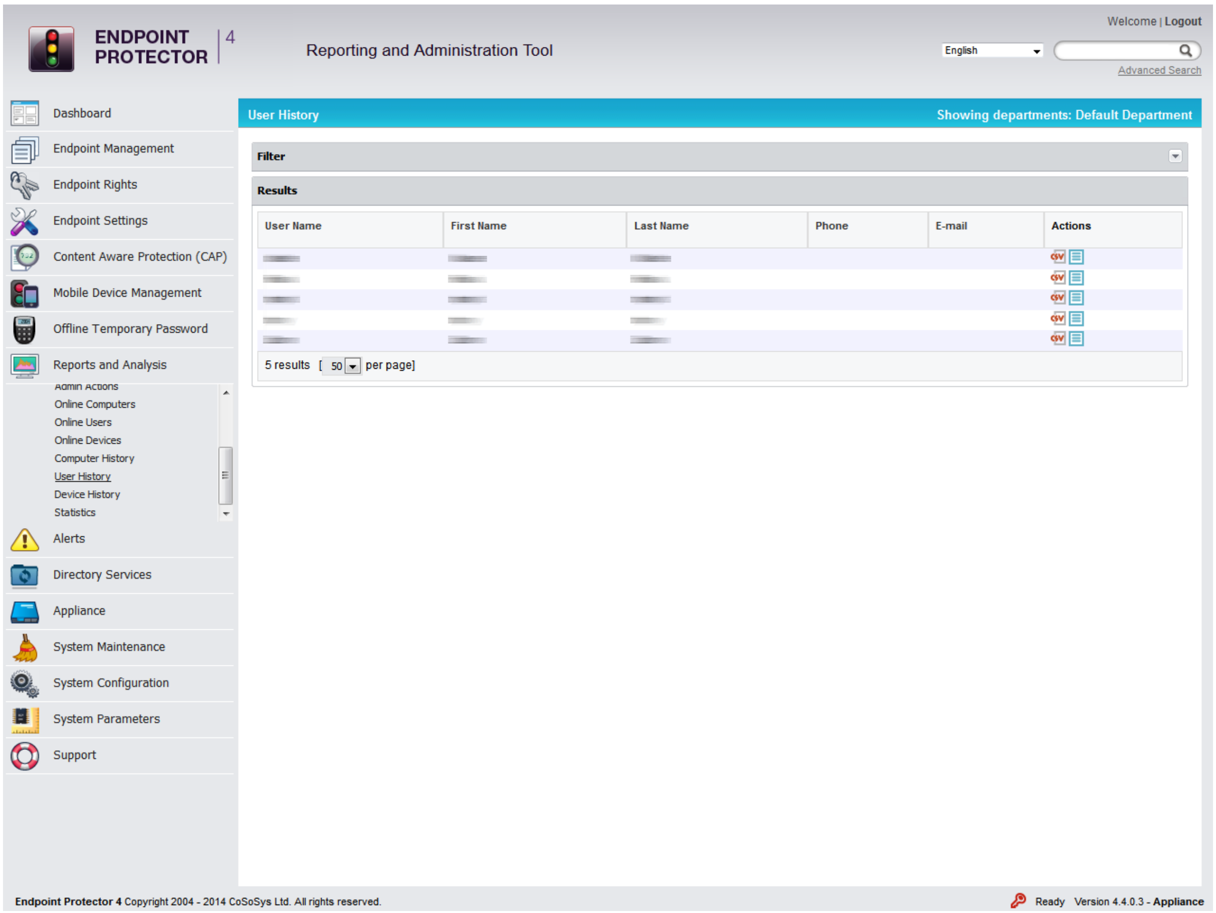
Ready Version 4.4.0.3 - Appliance

8.11. User History

This module shows all users that were at least once connected to the server. With the help of the "Export" button the logs can be saved to a .csv file, while pressing the "View User log" will show the Logs Report page filtered for the respective User.



User Name	First Name	Last Name	Phone	E-mail	Actions
[redacted]	[redacted]	[redacted]			CSV ▤
[redacted]	[redacted]	[redacted]			CSV ▤
[redacted]	[redacted]	[redacted]			CSV ▤
[redacted]	[redacted]	[redacted]			CSV ▤
[redacted]	[redacted]	[redacted]			CSV ▤

5 results [50 per page]

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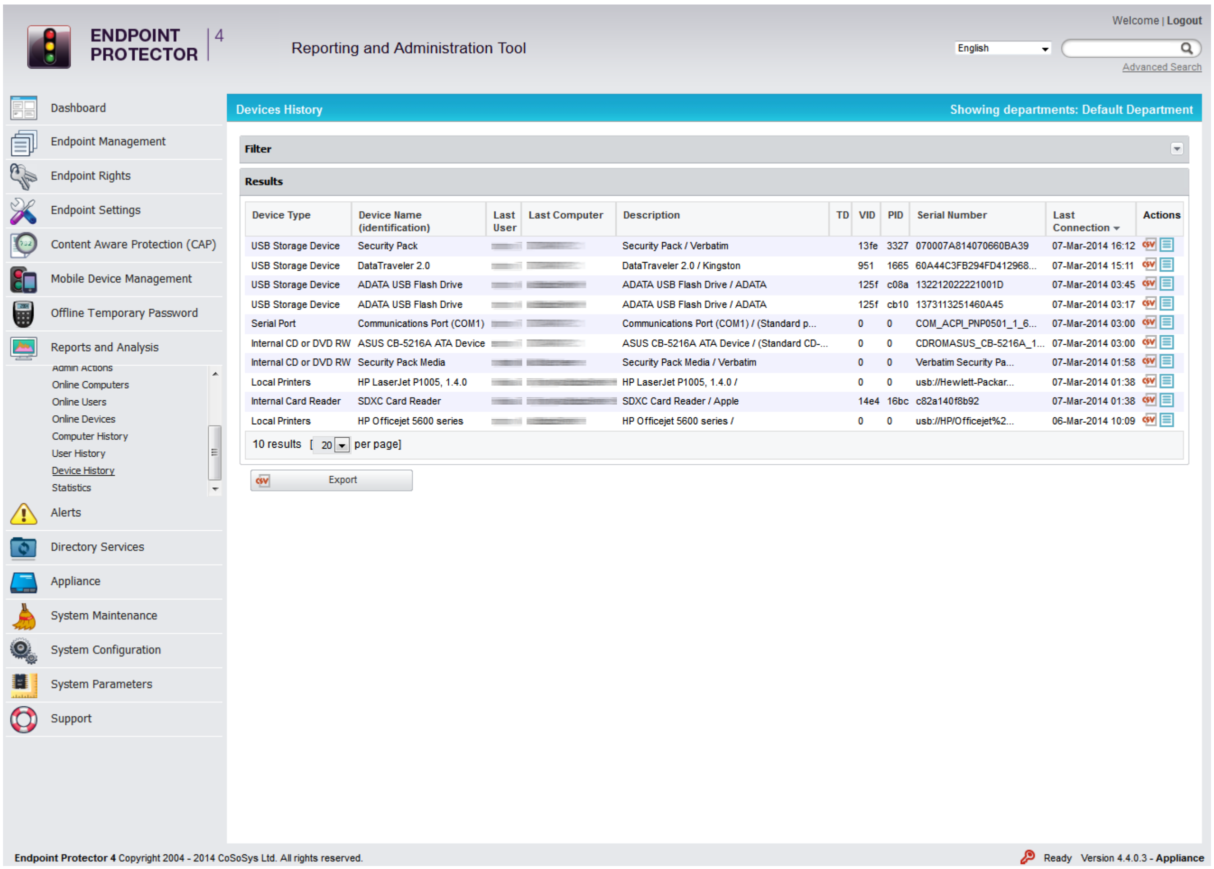
8.12. Device History

Similar to Computer and User history, all devices that were at least once connected to the server can be found here. Logs can be exported to a .csv file by pressing the “Export” button, while “View Device Log” will show the Logs Report page filtered for the respective device.



Device Type	Device Name (identification)	Last User	Last Computer	Description	TD	VID	PID	Serial Number	Last Connection	Actions
USB Storage Device	Security Pack	[redacted]	[redacted]	Security Pack / Verbatim		13fe	3327	070007A814070660BA39	07-Mar-2014 16:12	csv ☰
USB Storage Device	DataTraveler 2.0	[redacted]	[redacted]	DataTraveler 2.0 / Kingston		951	1665	60A44C3FB294FD412968...	07-Mar-2014 15:11	csv ☰
USB Storage Device	ADATA USB Flash Drive	[redacted]	[redacted]	ADATA USB Flash Drive / ADATA		125f	c08a	132212022221001D	07-Mar-2014 03:45	csv ☰
USB Storage Device	ADATA USB Flash Drive	[redacted]	[redacted]	ADATA USB Flash Drive / ADATA		125f	cb10	1373113251460A45	07-Mar-2014 03:17	csv ☰
Serial Port	Communications Port (COM1)	[redacted]	[redacted]	Communications Port (COM1) / (Standard p...		0	0	COM_ACPI_PNP0501_1_6...	07-Mar-2014 03:00	csv ☰
Internal CD or DVD RW	ASUS CB-5216A ATA Device	[redacted]	[redacted]	ASUS CB-5216A ATA Device / (Standard CD-...		0	0	CDROMASUS_CB-5216A_1...	07-Mar-2014 03:00	csv ☰
Internal CD or DVD RW	Security Pack Media	[redacted]	[redacted]	Security Pack Media / Verbatim		0	0	Verbatim Security Pa...	07-Mar-2014 01:58	csv ☰
Local Printers	HP LaserJet P1005, 1.4.0	[redacted]	[redacted]	HP LaserJet P1005, 1.4.0 /		0	0	usb://Hewlett-Packar...	07-Mar-2014 01:38	csv ☰
Internal Card Reader	SDXC Card Reader	[redacted]	[redacted]	SDXC Card Reader / Apple		14e4	16bc	c82a140f8b92	07-Mar-2014 01:38	csv ☰
Local Printers	HP Officejet 5600 series	[redacted]	[redacted]	HP Officejet 5600 series /		0	0	usb://HP/Officejet%2...	06-Mar-2014 10:09	csv ☰

10 results [20 per page]

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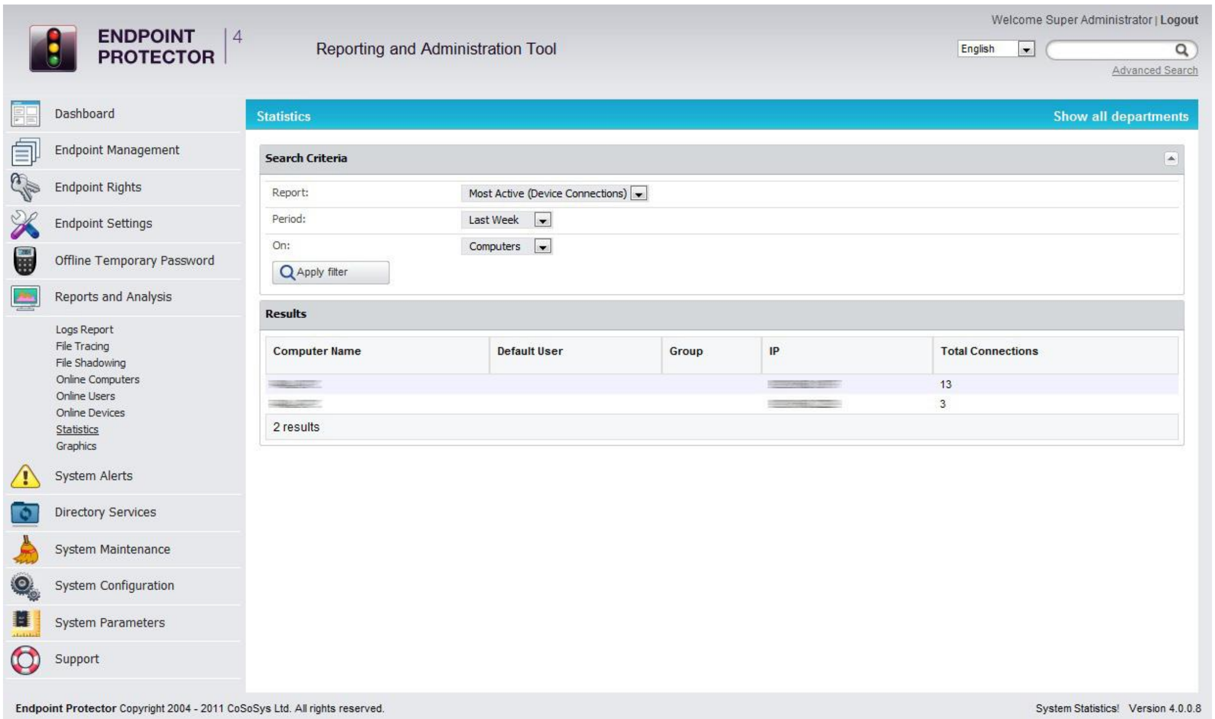
8.13. Statistics

The Statistics module will allow 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 the “Apply filter” button.



Report: Most Active (Device Connections)

Period: Last Week

On: Computers

Computer Name	Default User	Group	IP	Total Connections
[redacted]			[redacted]	13
[redacted]			[redacted]	3

2 results

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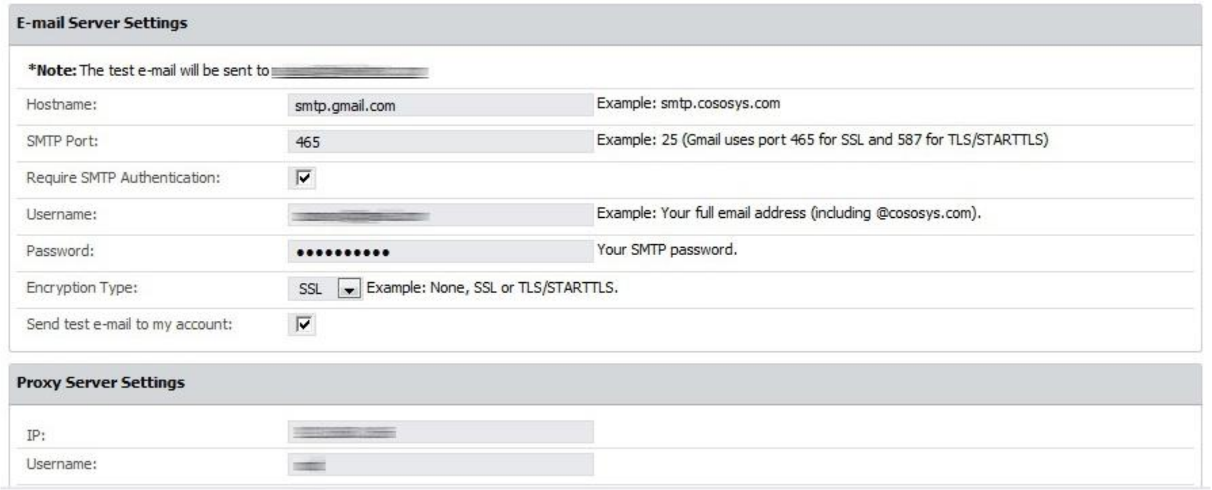
System Statistics! Version 4.0.0.8

9. Alerts

Endpoint Protector allows you to set notifications (Alerts) for Sensitive Content Transfers, Devices, Computers, Groups and Users making monitoring them easier. An Alert will trigger an E-MAIL that will be sent to the selected administrator(s) that are intended to receive the alerts. You can set up device related activity alerts in the System Alerts-> Define System Alerts module in Endpoint Protector. The Define Content Aware Alerts option will allow administrators to set special alerts for sensitive content detection and transfer blocking.

Before you can create an E-MAIL alert, you must configure the server host and provide a user name and password to that mail server. You can do that by accessing “System Settings” in the “System Configuration” module.



E-mail Server Settings

***Note:** The test e-mail will be sent to [redacted]

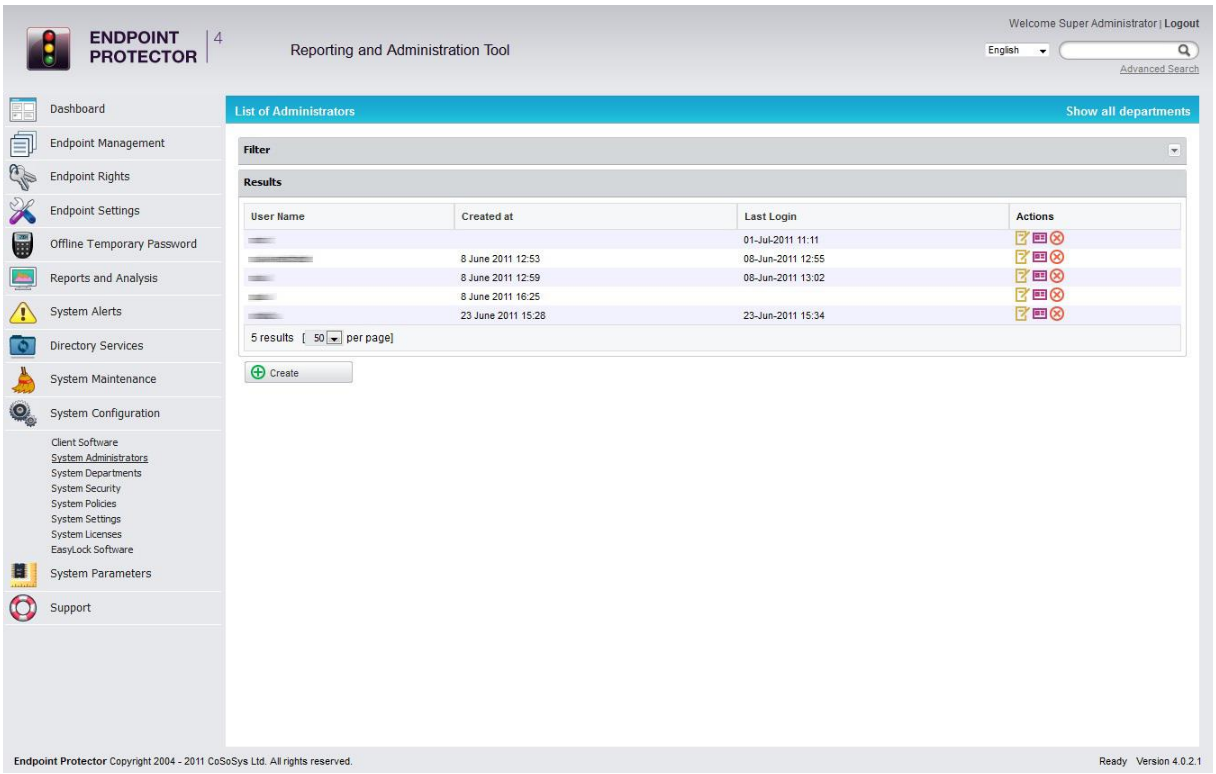
Hostname:	smtp.gmail.com	Example: smtp.cososys.com
SMTP Port:	465	Example: 25 (Gmail uses port 465 for SSL and 587 for TLS/STARTTLS)
Require SMTP Authentication:	☑	
Username:	[redacted]	Example: Your full email address (including @cososys.com).
Password:	●●●●●●●●●●	Your SMTP password.
Encryption Type:	SSL ▾	Example: None, SSL or TLS/STARTTLS.
Send test e-mail to my account:	☑	

Proxy Server Settings

IP:	[redacted]
Username:	[redacted]

You can also verify if your settings are correct by checking the box next to “Send test E-MAIL to my account”.

You also have to configure the E-MAIL of your current user with which you are accessing Endpoint Protector; by default, “root”. To do this, go to “System Configuration” > “System Administrators”.



List of Administrators

Results

User Name	Created at	Last Login	Actions
[redacted]		01-Jul-2011 11:11	✎ ▤ ⊗
[redacted]	8 June 2011 12:53	08-Jun-2011 12:55	✎ ▤ ⊗
[redacted]	8 June 2011 12:59	08-Jun-2011 13:02	✎ ▤ ⊗
[redacted]	8 June 2011 16:25		✎ ▤ ⊗
[redacted]	23 June 2011 15:28	23-Jun-2011 15:34	✎ ▤ ⊗

5 results [50 per page]

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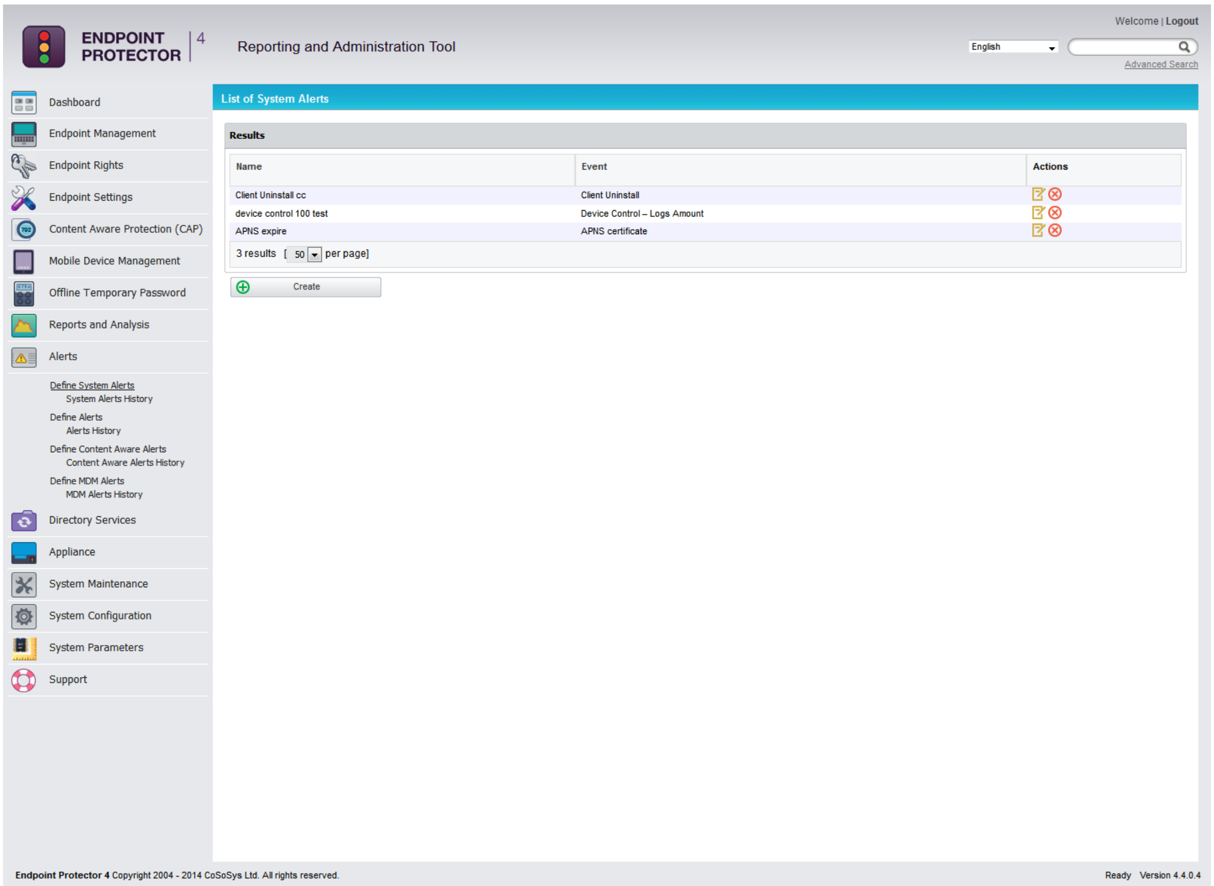
The actions available here are Edit, Edit Info and Delete.

✎ ▤ ⊗

Select the option “Edit info” for the desired user and complete the required fields. After you are done, click “Save”.

Now you are set up to receive E-MAIL alerts.

9.1. Define System Alerts



List of System Alerts

Results

Name	Event	Actions
Client Uninstall cc	Client Uninstall	
device control 100 test	Device Control – Logs Amount	
APNS expire	APNS certificate	

3 results [50 per page]

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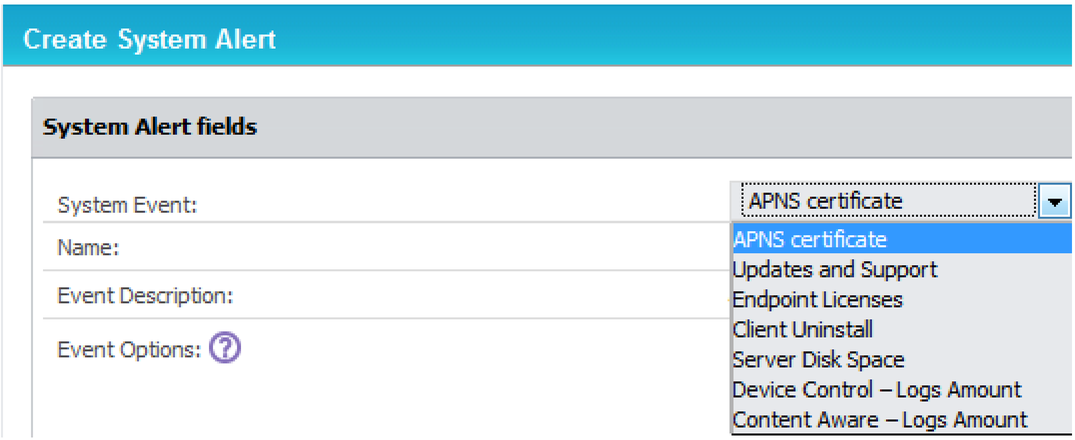
Ready Version 4.4.0.4

To create a new system alert, go to “Define System Alerts” and click “Create”.

There are several types of alerts available as shown below:


Create System Alert

System Alert fields

System Event: APNS certificate

Name:

Event Description:

Event Options:

APNS certificate – APNS certificates expire and have to be renewed on a regular basis. These alerts eliminates the risks of having to re-enroll all the mobile devices by sending an e-mail reminder 60, 30 or 10 days prior.

Updates and Support – To ensure the Endpoint Protector Appliance is up to date, a reminder can be sent regarding each module maintenance status (Device Control, Content Aware Protection and Mobile Device Management).

Endpoint Licenses – As each network is constantly growing, to eliminate the risks of having unprotected endpoints, an alert can be generated. It can be defined if the percentage of already used Endpoint Licenses reaches 70%, 80% or 90%.

Client Uninstall – For a better management of a large network, an alert can be sent each time an Endpoint Protector Client is uninstalled. This is particularly helpful when there are several assigned Administrators.

Server Disk Space – Ensuring Server Disk Space remains available for logs to be stored and policies are properly applied, and alert can be setup when disk space reaches 70%, 80% or 90%.

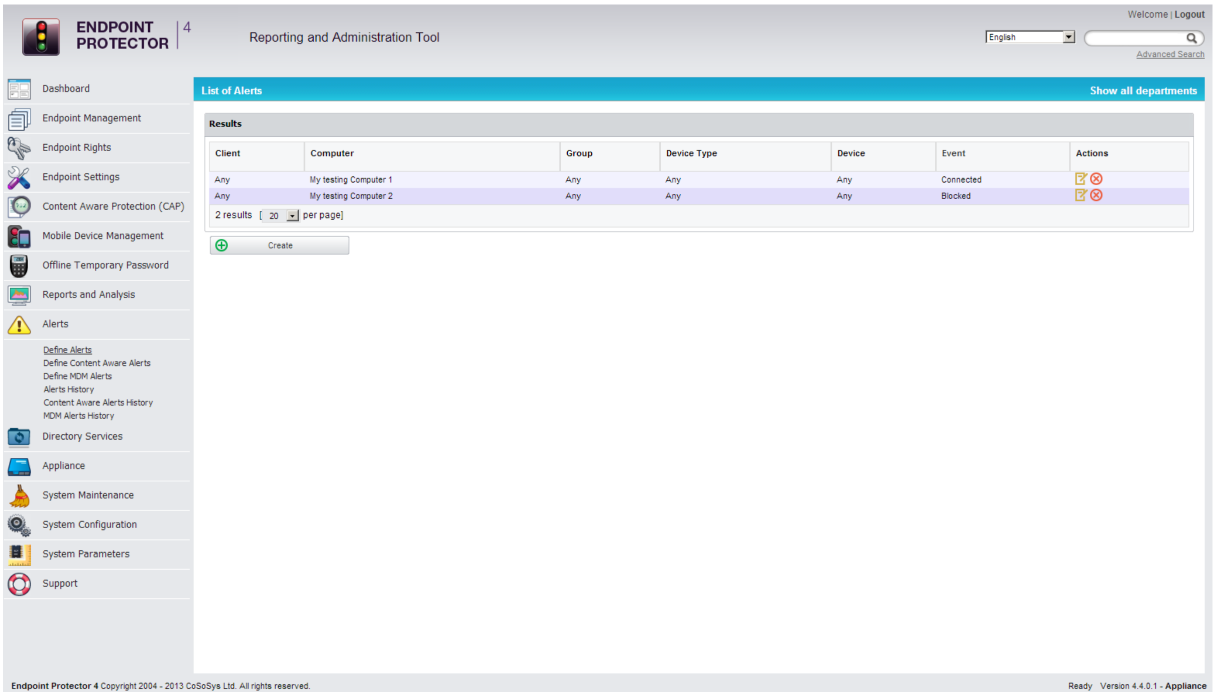
Device Control – Logs Amount – An alert can be sent each time the Number of Device Control Logs Stored reaches a specific amount. The option to choose either from an interval between 10,000 rows or 10,000,000 rows or define a desired value are available.

Content Aware – Logs Amount – An alert can be sent each time the Number of Content Aware Logs Stored reaches a specific amount. The option to choose either from an interval between 10,000 rows or 10,000,000 rows or define a desired value are available.

Note!

Both the APNS Certificate and Update and Support system alerts can be disabled from General Dashboard -> System Status

9.2. Define Alerts (Device Control Alerts)



Results

Client	Computer	Group	Device Type	Device	Event	Actions
Any	My testing Computer 1	Any	Any	Any	Connected	
Any	My testing Computer 2	Any	Any	Any	Blocked	

2 results [20 per page]

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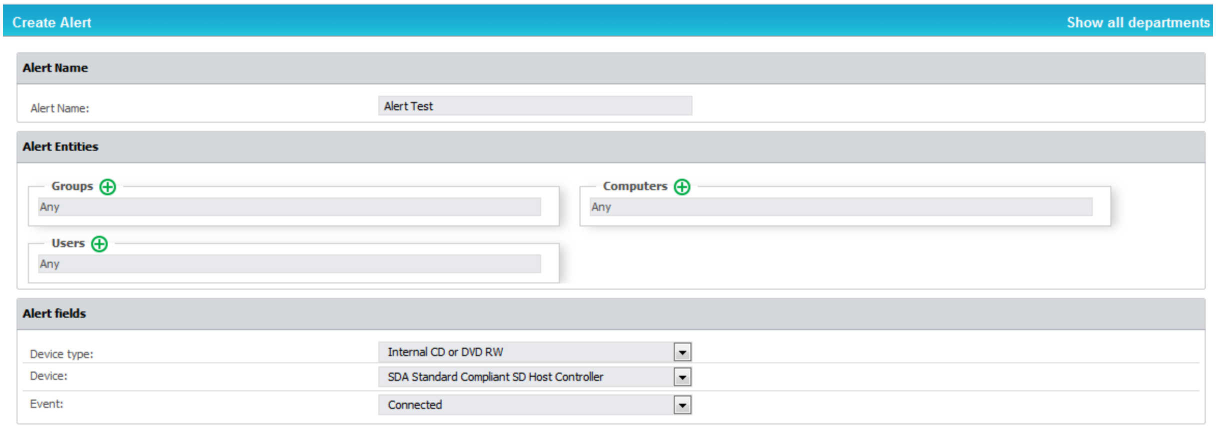
Ready Version 4.4.0.1 - Appliance

To create a new alert, go to “Define Alerts” and click “Create”.



Alert Name

Alert Name: Alert Test

Alert Entities

Groups: Any

Computers: Any

Users: Any

Alert fields

Device type:	Internal CD or DVD RW
Device:	SDA Standard Compliant SD Host Controller
Event:	Connected

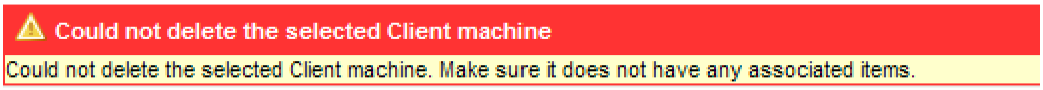
Then select the Group, User, Computer, Device type or Device - depending if you mean a single device or all devices of a certain type - and the event that will trigger the notification. The filters shown above designed to make finding information quick and easy.

You can also select one or more administrators to receive the same notification(s). This is useful in case there is more than one administrator for Endpoint Protector.

Example: if you want to be notified when a certain device is connected to a certain computer you must set up an alert choosing the specific device and computer that you wish to be notified of and selecting the “Connected” event from the events list.

In this case, the “Client” and “Group” fields do not influence the triggering of the alert so there is no need to fill them out. Setting up a value for the “Group” field means that the alert will be triggered when the selected event occurs for any clients or computers in that group.

If you try to delete any items (Users, Groups, Computers etc.) that have been used in setting up an alert, you will receive a notification, and you will not be able to delete them.

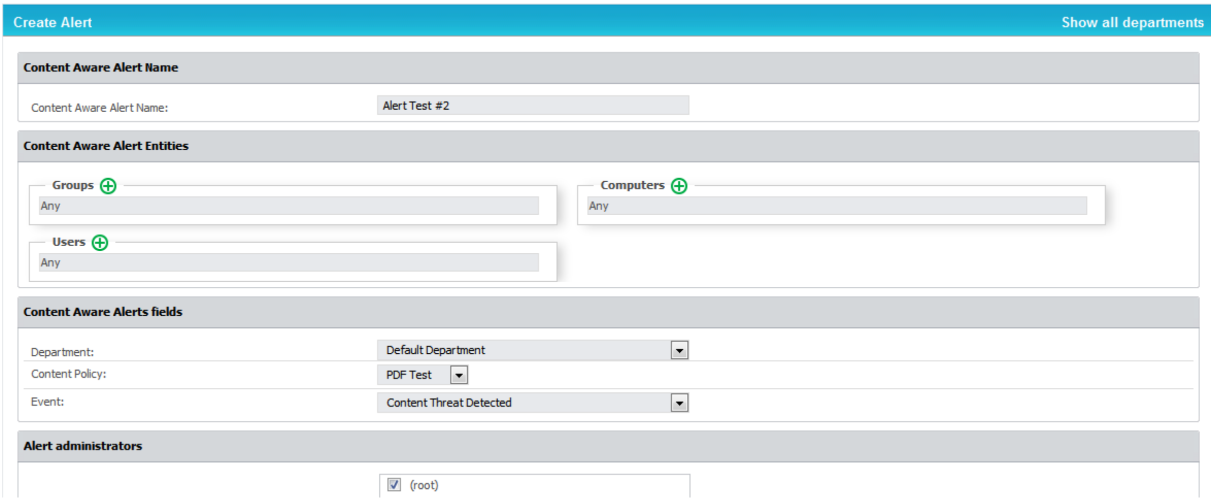


⚠ Could not delete the selected Client machine

Could not delete the selected Client machine. Make sure it does not have any associated items.

9.3. Define Content Aware Alerts

To create a new Content Aware Alert corresponding to the policies defined in the Content Aware Protection module, go to Define Content Aware Alerts submenu option and click “Create”.



Content Aware Alert Name

Content Aware Alert Name: Alert Test #2

Content Aware Alert Entities

Groups: Any

Computers: Any

Users: Any

Content Aware Alerts fields

Department: Default Department

Content Policy: PDF Test

Event: Content Threat Detected

Alert administrators

☑ (root)

Then select the Group, Computer, User that you want to monitor, the Content Aware Policy to be considered, and the event that will trigger the notification. The filter is designed to make finding information quick and easy.

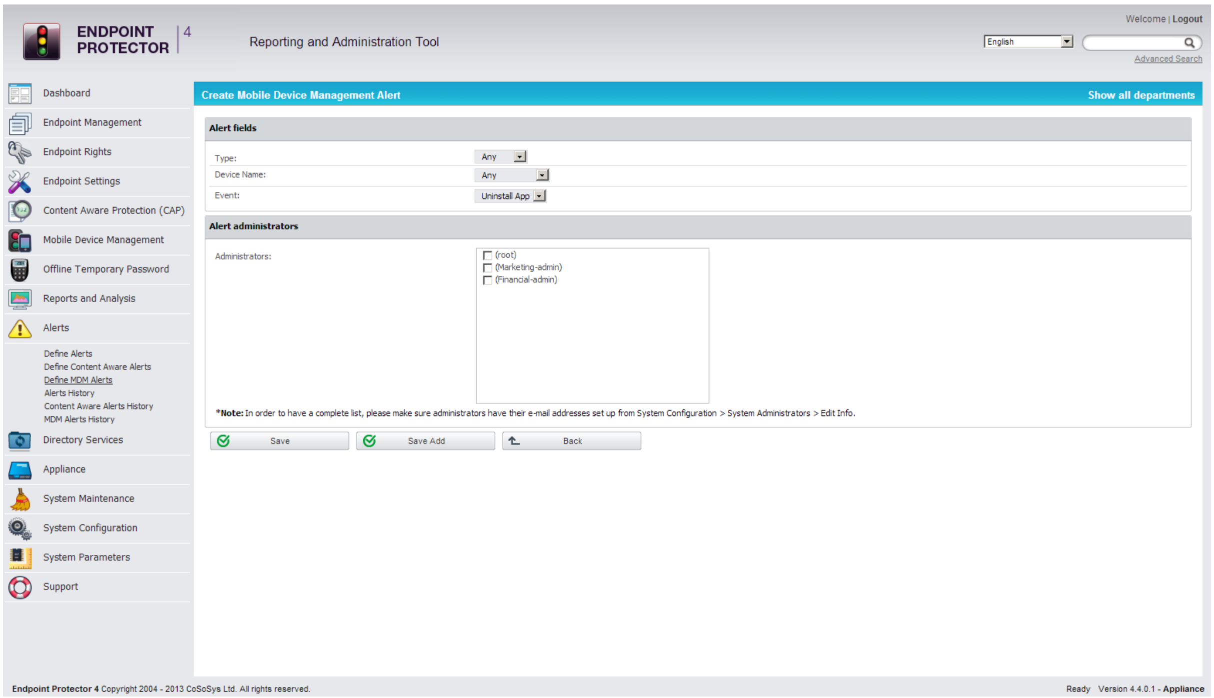
Example: if you want to be notified when a file containing credit card information is attached to an E-MAIL on one of the Financial Departments computers, you must set up an alert choosing the Financial Department as the monitored entity, the Content Aware Policy that inspects documents for that type of information and, finally, selecting the “Content Threat Detected” event from the events list.

Note!

Before creating the alert, you must make sure that the selected Content Aware Policy is enabled on the chosen Computer, User, Group or Department.

9.4. Define MDM Alerts

To create a new MDM alert go to the "Define MDM Alerts" tab and press the "Create" button.



Create Mobile Device Management Alert

Alert fields

Type: Any

Device Name: Any

Event: Uninstall App

Alert administrators

Administrators:
- □ (root)
- □ (Marketing-admin)
- □ (Financial-admin)

***Note:** In order to have a complete list, please make sure administrators have their e-mail addresses set up from System Configuration > System Administrators > Edit Info.

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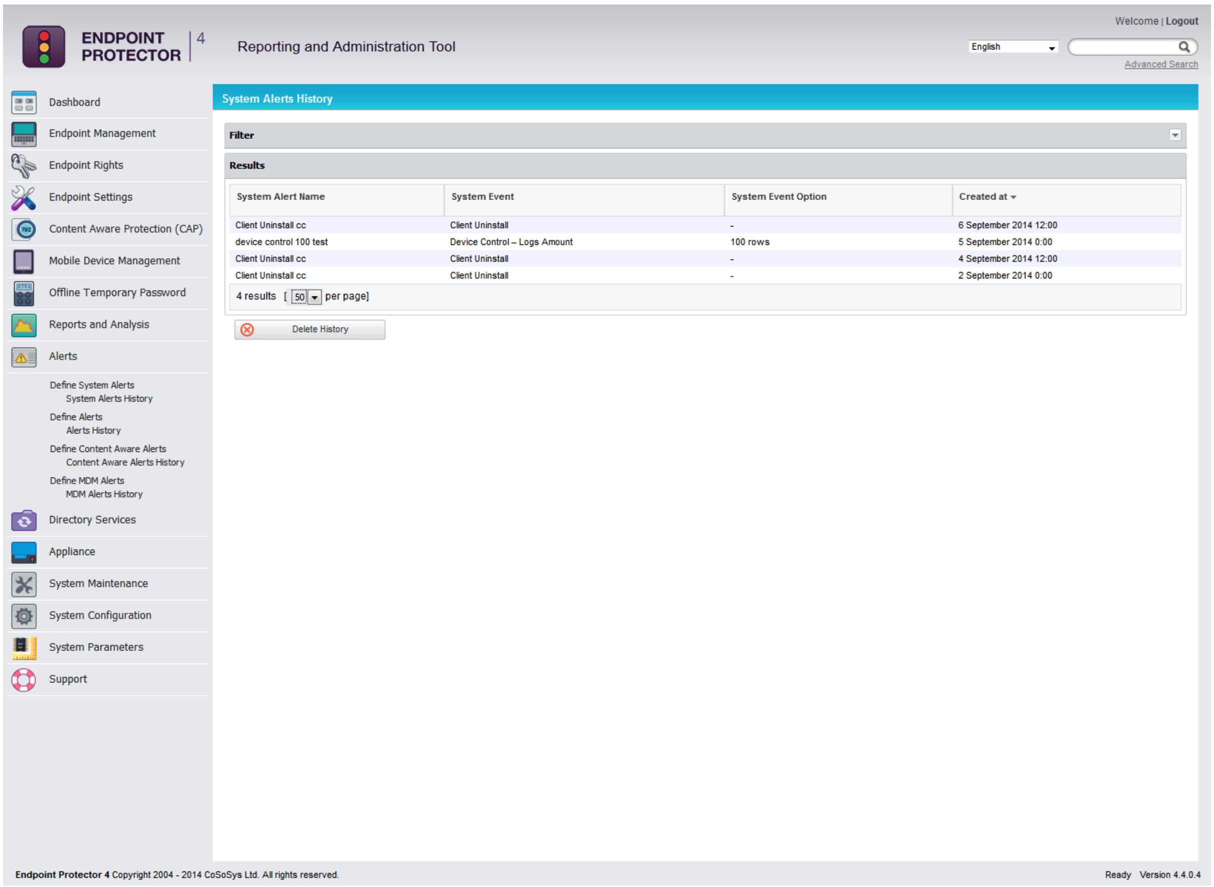
Ready Version 4.4.0.1 - **Appliance**

Alerts can be created for IOS MDM profile removal, Android application removal, SIM card changed and carrier changed.

9.5. System Alerts History

A history of the system alerts is kept in this tab for later auditing. Each event that triggers a system alert will be saved here. Administrators can search for data more easily with the implemented filter, while if not needed anymore the logs can be deleted by pressing the “Delete History” button.

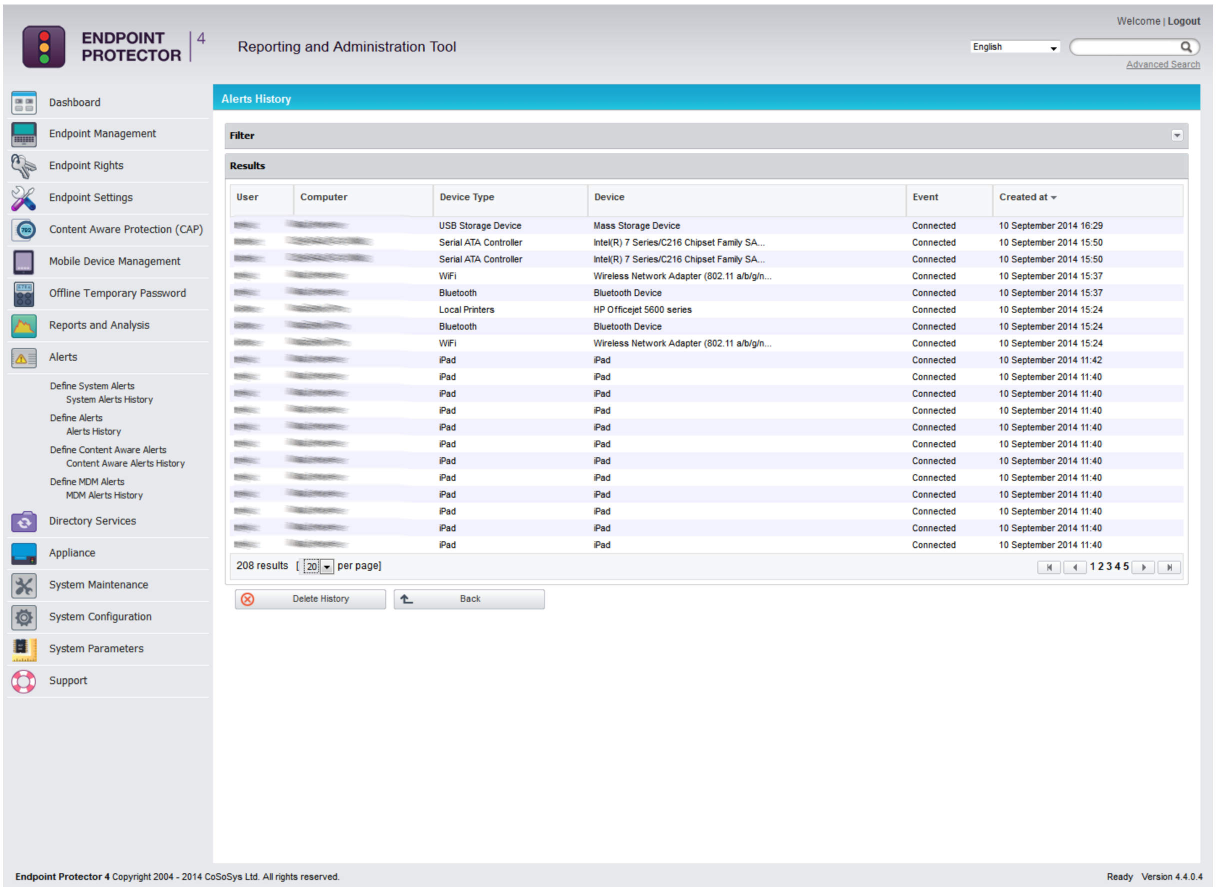


System Alert Name	System Event	System Event Option	Created at
Client Uninstall cc	Client Uninstall	-	6 September 2014 12:00
device control 100 test	Device Control – Logs Amount	100 rows	5 September 2014 0:00
Client Uninstall cc	Client Uninstall	-	4 September 2014 12:00
Client Uninstall cc	Client Uninstall	-	2 September 2014 0:00

4 results [50 per page]

9.6. Alerts History

A history of the alerts is kept in this tab for later auditing. Each event that triggers an alert will be saved here. Administrators can search for data more easily with the implemented filter, while if not needed anymore the logs can be deleted by pressing "Delete History" the button.



User	Computer	Device Type	Device	Event	Created at
[redacted]	[redacted]	USB Storage Device	Mass Storage Device	Connected	10 September 2014 16:29
[redacted]	[redacted]	Serial ATA Controller	Intel(R) 7 Series/C216 Chipset Family SA...	Connected	10 September 2014 15:50
[redacted]	[redacted]	Serial ATA Controller	Intel(R) 7 Series/C216 Chipset Family SA...	Connected	10 September 2014 15:50
[redacted]	[redacted]	WiFi	Wireless Network Adapter (802.11 a/b/g/n...	Connected	10 September 2014 15:37
[redacted]	[redacted]	Bluetooth	Bluetooth Device	Connected	10 September 2014 15:37
[redacted]	[redacted]	Local Printers	HP Officejet 5600 series	Connected	10 September 2014 15:24
[redacted]	[redacted]	Bluetooth	Bluetooth Device	Connected	10 September 2014 15:24
[redacted]	[redacted]	WiFi	Wireless Network Adapter (802.11 a/b/g/n...	Connected	10 September 2014 15:24
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:42
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40
[redacted]	[redacted]	iPad	iPad	Connected	10 September 2014 11:40

208 results [20 per page] 1 2 3 4 5

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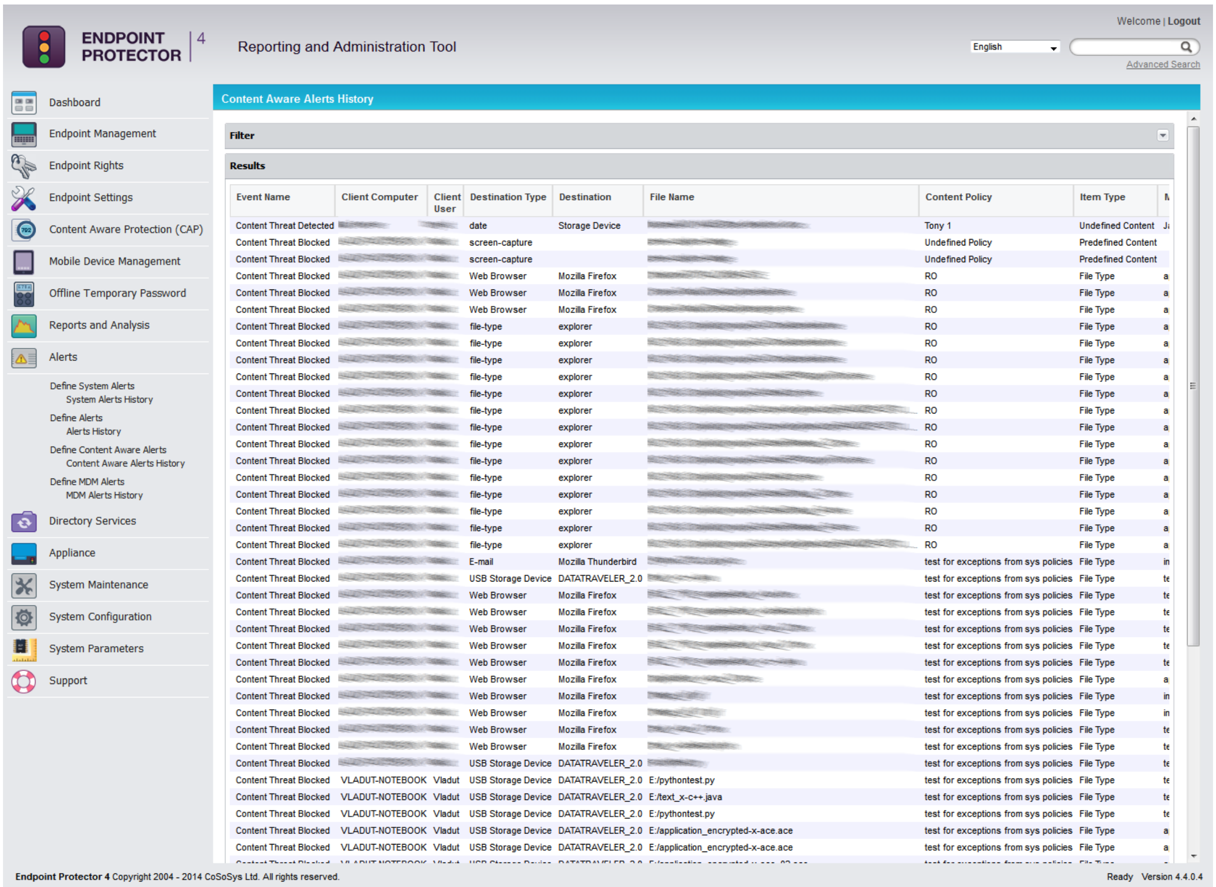
9.7. Content Aware Alerts History

A history of the content aware alerts is kept in this tab for later auditing. Each event that triggers a content aware alert will be saved here. Administrators can search for data more easily with the implemented filter, while if not needed anymore the logs can be deleted by pressing the "Delete History" button.



Event Name	Client Computer	Client User	Destination Type	Destination	File Name	Content Policy	Item Type	M
Content Threat Detected	[redacted]	[redacted]	date	Storage Device	[redacted]	Tony 1	Undefined Content	J
Content Threat Blocked	[redacted]	[redacted]	screen-capture		[redacted]	Undefined Policy	Predefined Content	
Content Threat Blocked	[redacted]	[redacted]	screen-capture		[redacted]	Undefined Policy	Predefined Content	
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	file-type	explorer	[redacted]	RO	File Type	a
Content Threat Blocked	[redacted]	[redacted]	E-mail	Mozilla Thunderbird	[redacted]	test for exceptions from sys policies	File Type	in
Content Threat Blocked	[redacted]	[redacted]	USB Storage Device	DATATRAVELER_2.0	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	a
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	in
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	in
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	Web Browser	Mozilla Firefox	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	[redacted]	[redacted]	USB Storage Device	DATATRAVELER_2.0	[redacted]	test for exceptions from sys policies	File Type	te
Content Threat Blocked	VLADUT-NOTEBOOK	Vladut	USB Storage Device	DATATRAVELER_2.0	E:/pythontest.py	test for exceptions from sys policies	File Type	te
Content Threat Blocked	VLADUT-NOTEBOOK	Vladut	USB Storage Device	DATATRAVELER_2.0	E:/text_x-c++.java	test for exceptions from sys policies	File Type	te
Content Threat Blocked	VLADUT-NOTEBOOK	Vladut	USB Storage Device	DATATRAVELER_2.0	E:/pythontest.py	test for exceptions from sys policies	File Type	te
Content Threat Blocked	VLADUT-NOTEBOOK	Vladut	USB Storage Device	DATATRAVELER_2.0	E:/application_encrypted-x-ace.ace	test for exceptions from sys policies	File Type	a
Content Threat Blocked	VLADUT-NOTEBOOK	Vladut	USB Storage Device	DATATRAVELER_2.0	E:/application_encrypted-x-ace.ace	test for exceptions from sys policies	File Type	a

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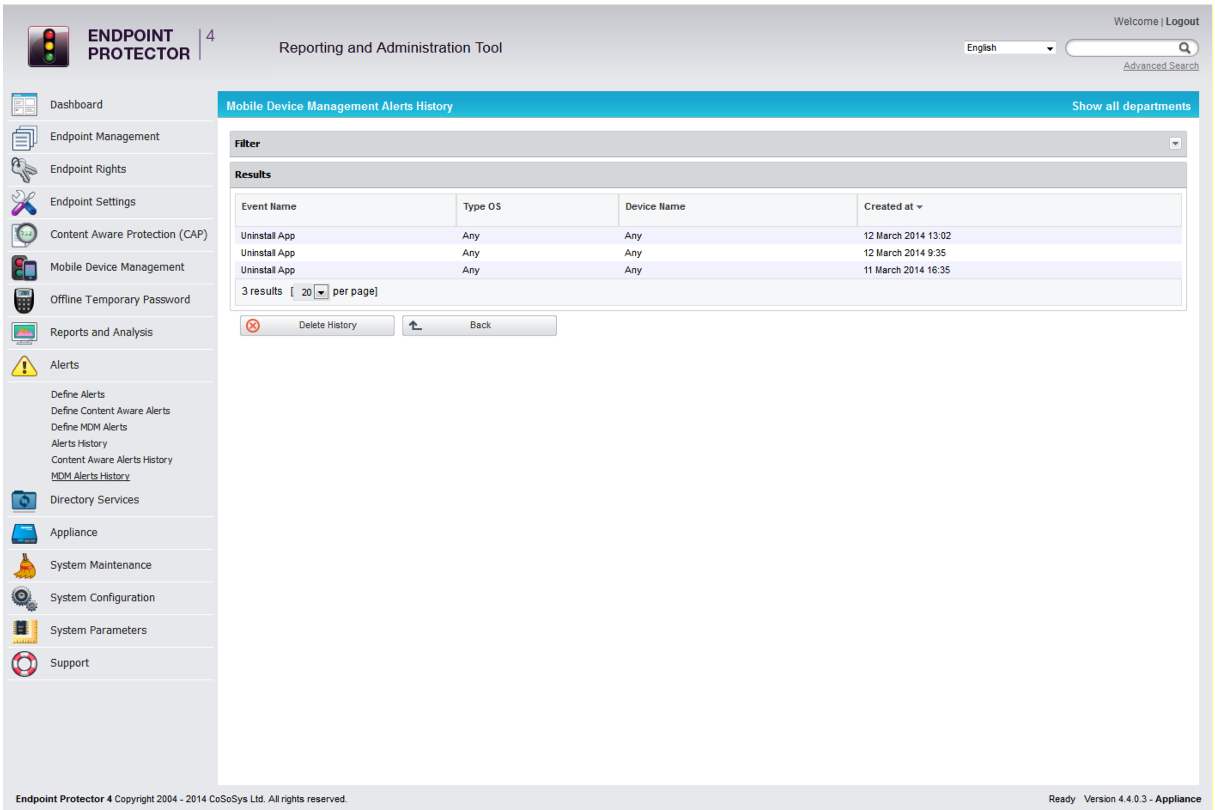
Ready Version 4.4.0.4

9.8. MDM Alerts History

A history of the MDM alerts is kept in this tab for later auditing. Each event that triggers an MDM alert will be saved here. Administrators can search for data more easily with the implemented filter, while if not needed anymore the logs can be deleted by pressing the “Delete History” button.

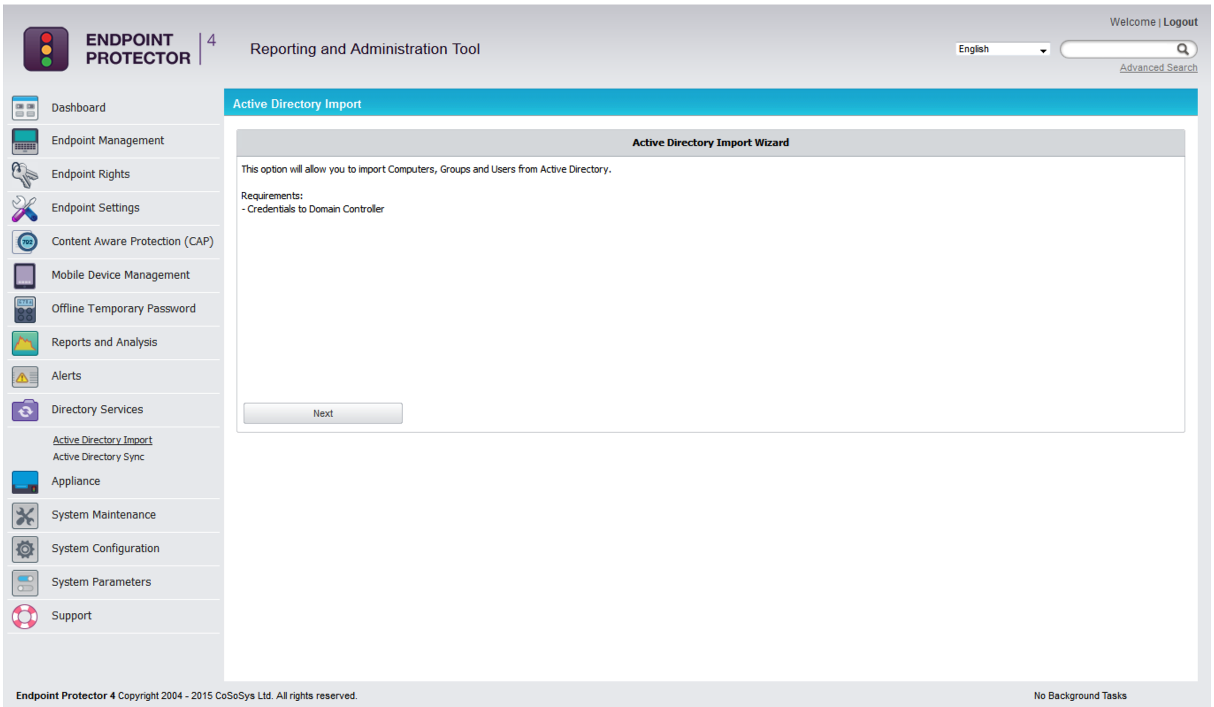


Event Name	Type OS	Device Name	Created at
Uninstall App	Any	Any	12 March 2014 13:02
Uninstall App	Any	Any	12 March 2014 9:35
Uninstall App	Any	Any	11 March 2014 16:35

10. Directory Services

10.1. Active Directory Import

This module allows you to import Computers, Groups and Users from Active Directory (where available).



Active Directory Import Wizard

This option will allow you to import Computers, Groups and Users from Active Directory.

Requirements:
- Credentials to Domain Controller

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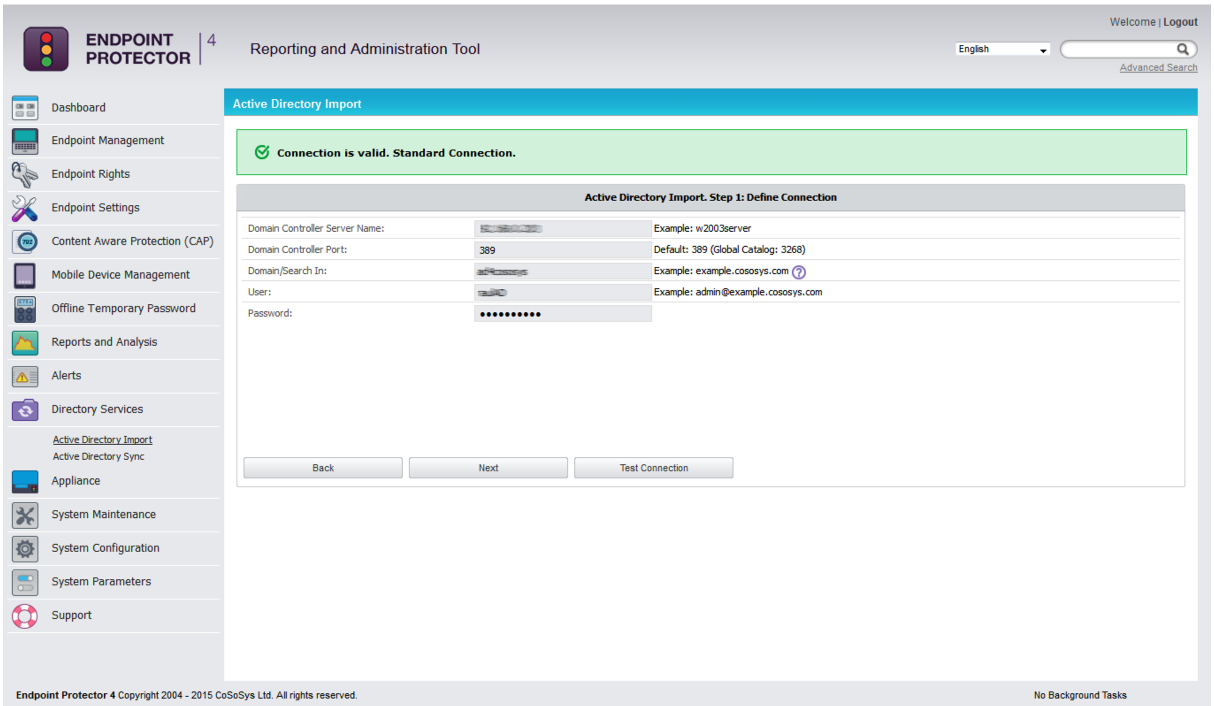
If you have the requirements, simply click **Next**.



Connection is valid. Standard Connection.

Active Directory Import. Step 1: Define Connection

Domain Controller Server Name:	[redacted]	Example: w2003server
Domain Controller Port:	389	Default: 389 (Global Catalog: 3268)
Domain/Search In:	[redacted]	Example: example.cososys.com
User:	[redacted]	Example: admin@example.cososys.com
Password:	••••••••••	

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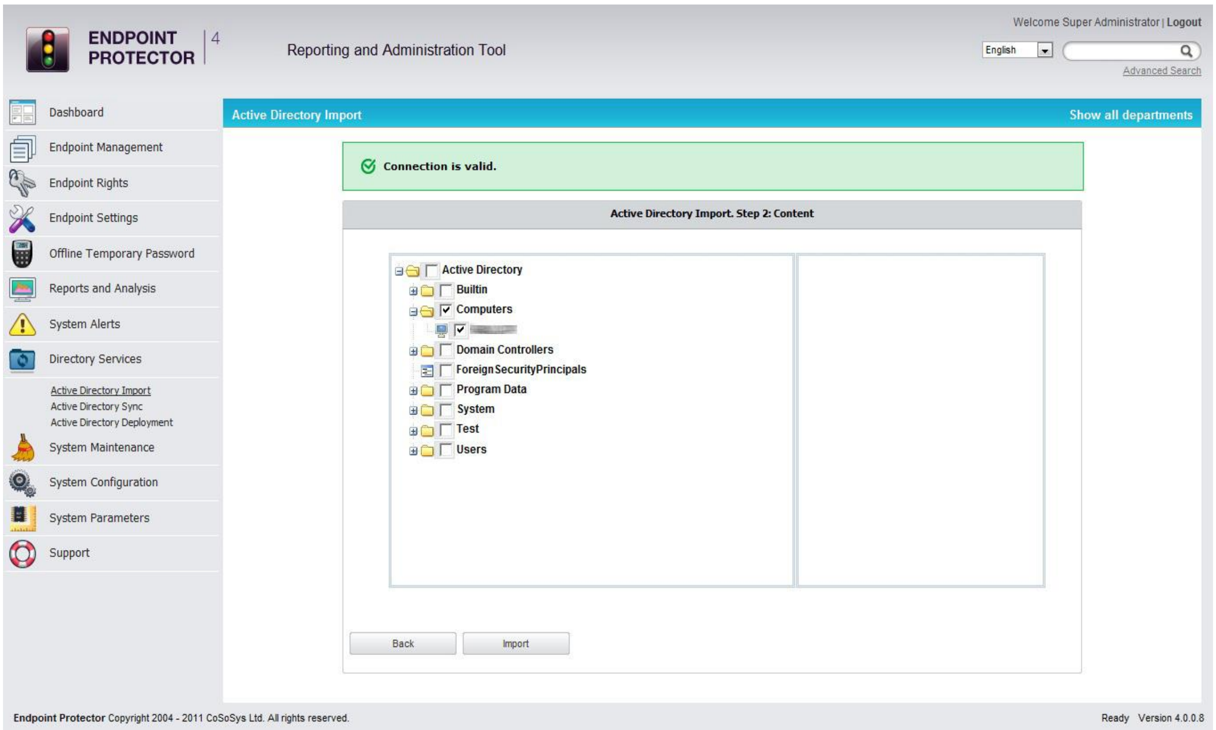
Enter the Active Directory domain controller server name, the domain name and a username and password in the format as in the examples presented in the form. First, you can push the "Test Connection" button to test if the connection is established successfully. If the connection is valid, push the "Next" button. This operation might take some time, depending on the volume of data that needs to be imported.

Note!

When having to import a very large number of entities from the Active Directory, we recommend using the "Domain/Search In" filter from the AD Import page in order to get only the relevant information displayed for import. 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.

In the next step, simply select what items you would like to import by clicking the checkbox next to them and finally, select "Import".



Connection is valid.

Active Directory Import. Step 2: Content

- □ Active Directory
  - □ Builtin
  - ☑ Computers
    - ☑ [redacted]
  - □ Domain Controllers
  - □ ForeignSecurityPrincipals
  - □ Program Data
  - □ System
  - □ Test
  - □ Users

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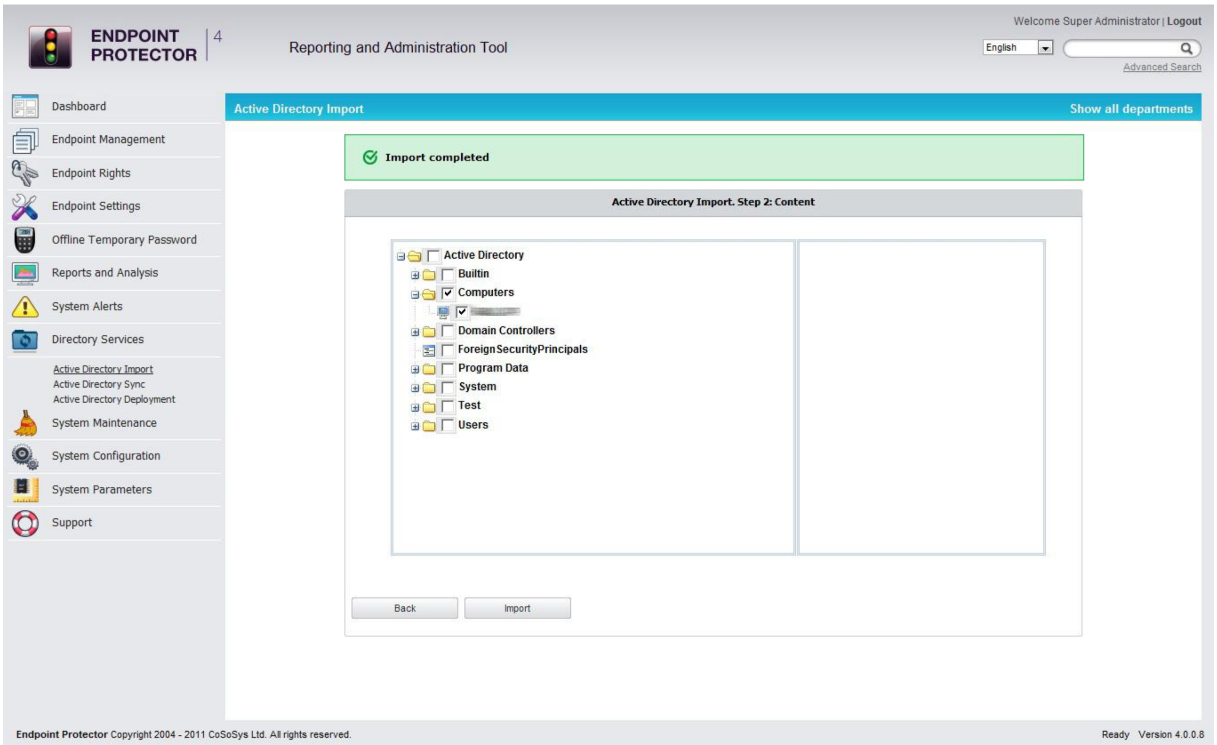
If the import procedure was successful, you will see the message "Import completed".



Import completed

Active Directory Import. Step 2: Content

- □ Active Directory
  - □ Builtin
  - ☑ Computers
    - ☑ [redacted]
  - □ Domain Controllers
  - □ ForeignSecurityPrincipals
  - □ Program Data
  - □ System
  - □ Test
  - □ Users

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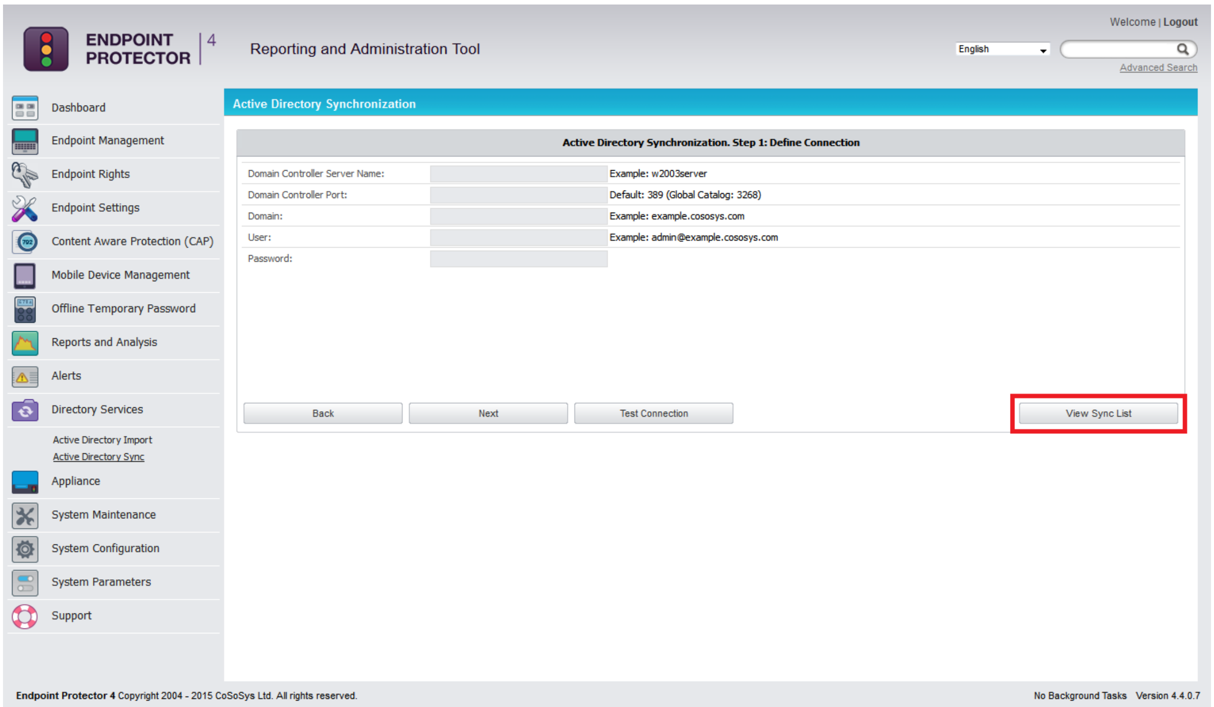
10.2. Active Directory Sync

This module allows you to synchronize the entities in Endpoint Protector with the entities in Active Directory (Computers, Users, and Groups).



Active Directory Synchronization. Step 1: Define Connection

Domain Controller Server Name:		Example: w2003server
Domain Controller Port:		Default: 389 (Global Catalog: 3268)
Domain:		Example: example.cososys.com
User:		Example: admin@example.cososys.com
Password:		

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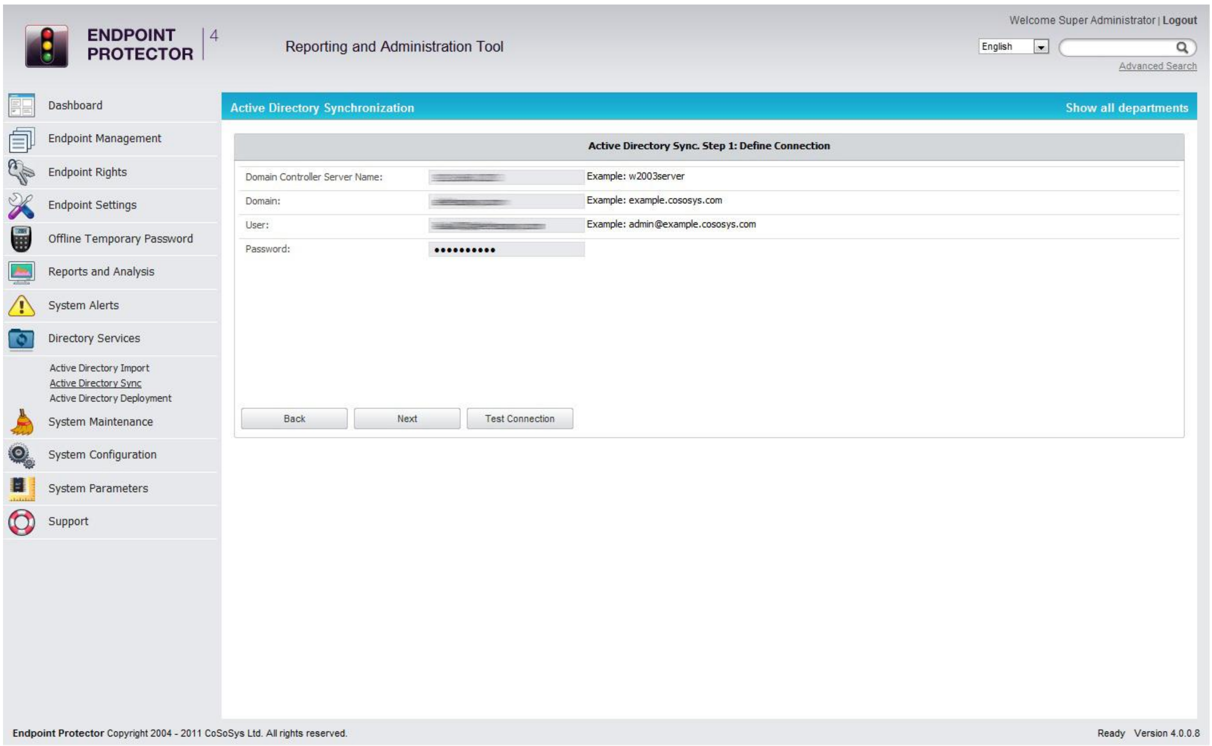
No Background Tasks Version 4.4.0.7

You can either examine existing synchronizations by clicking **View Sync List** or, if you have the requirements, simply click “Next” to set up your synchronization settings.

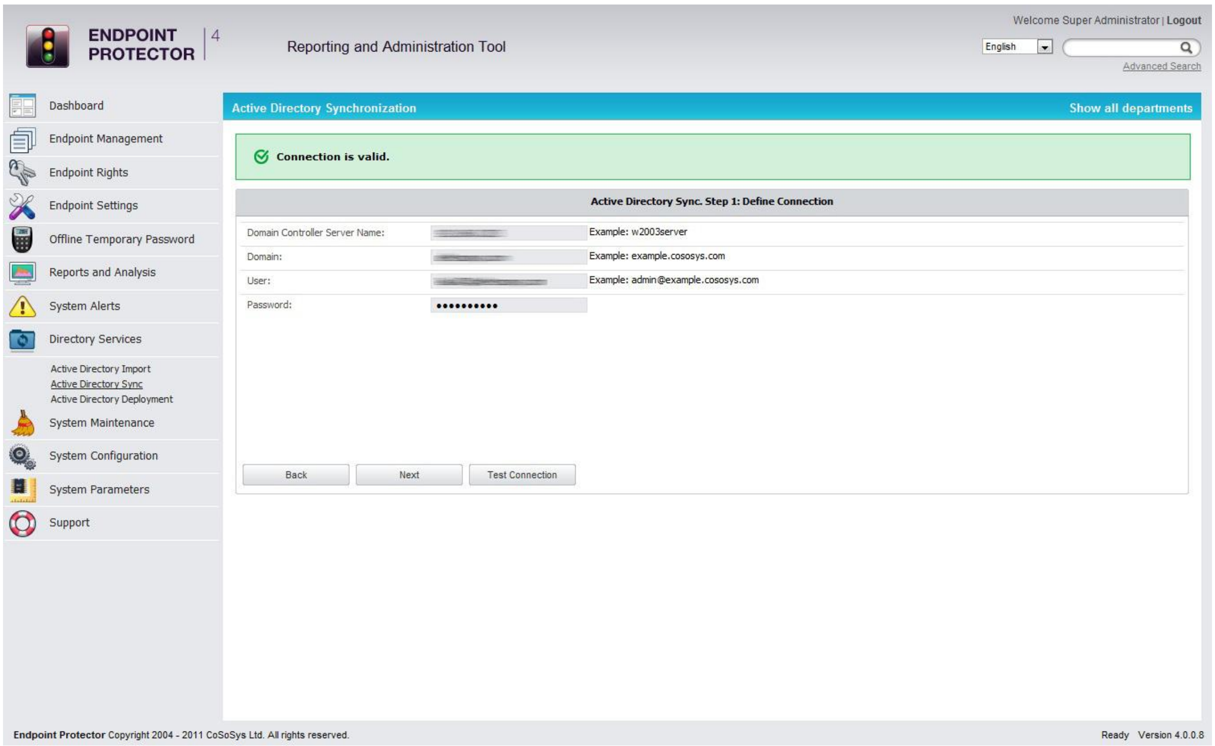


Active Directory Sync. Step 1: Define Connection

Domain Controller Server Name:	[redacted]	Example: w2003server
Domain:	[redacted]	Example: example.cososys.com
User:	[redacted]	Example: admin@example.cososys.com
Password:	••••••••••	

Enter the Active Directory domain controller server name, the domain name and a username and password in the format as in the examples presented in the form.

You can also check if your settings are correct by clicking the "Test Connection" button.



Connection is valid.

Active Directory Sync. Step 1: Define Connection

Domain Controller Server Name:	[redacted]	Example: w2003server
Domain:	[redacted]	Example: example.cososys.com
User:	[redacted]	Example: admin@example.cososys.com
Password:	••••••••••	

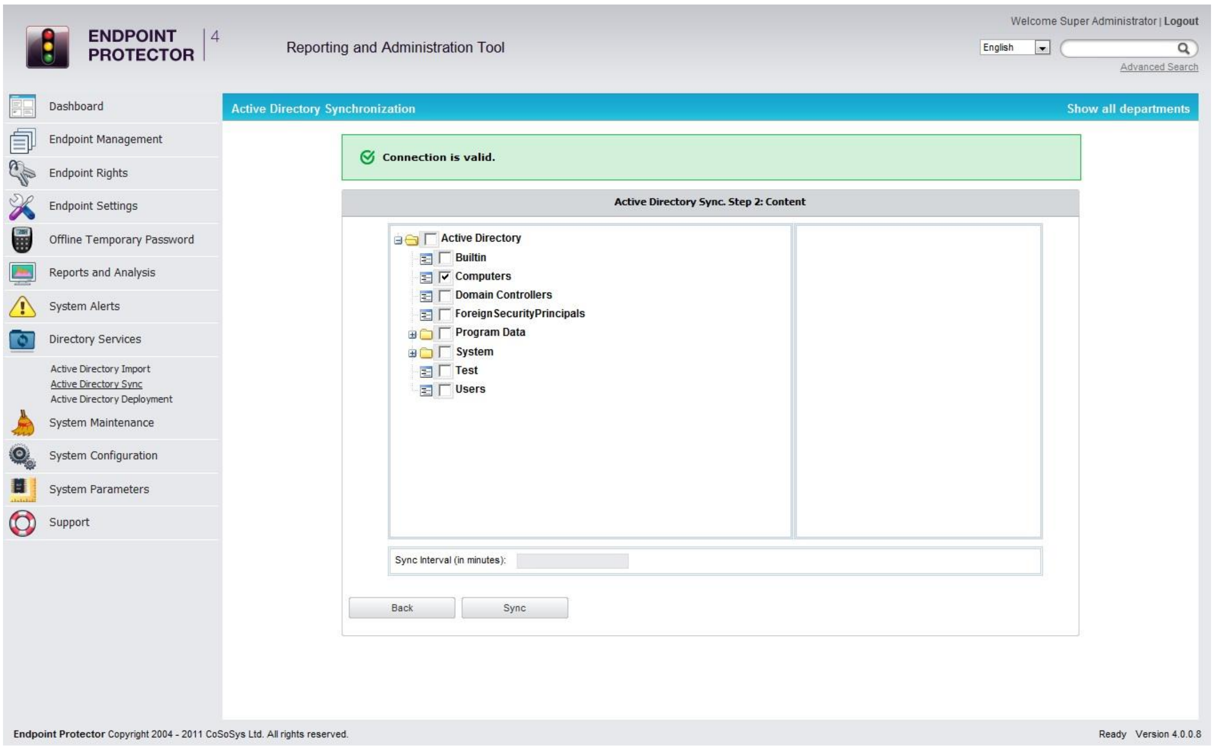
You should see a message "Connection is valid" on the top of the page.

Click "Next" to continue.

Note!

This operation might take some time, depending on the volume of data that needs to be synchronized.

In the next step, simply select what items you would like to synchronize by clicking the checkbox next to them, define a sync interval and select "Sync".

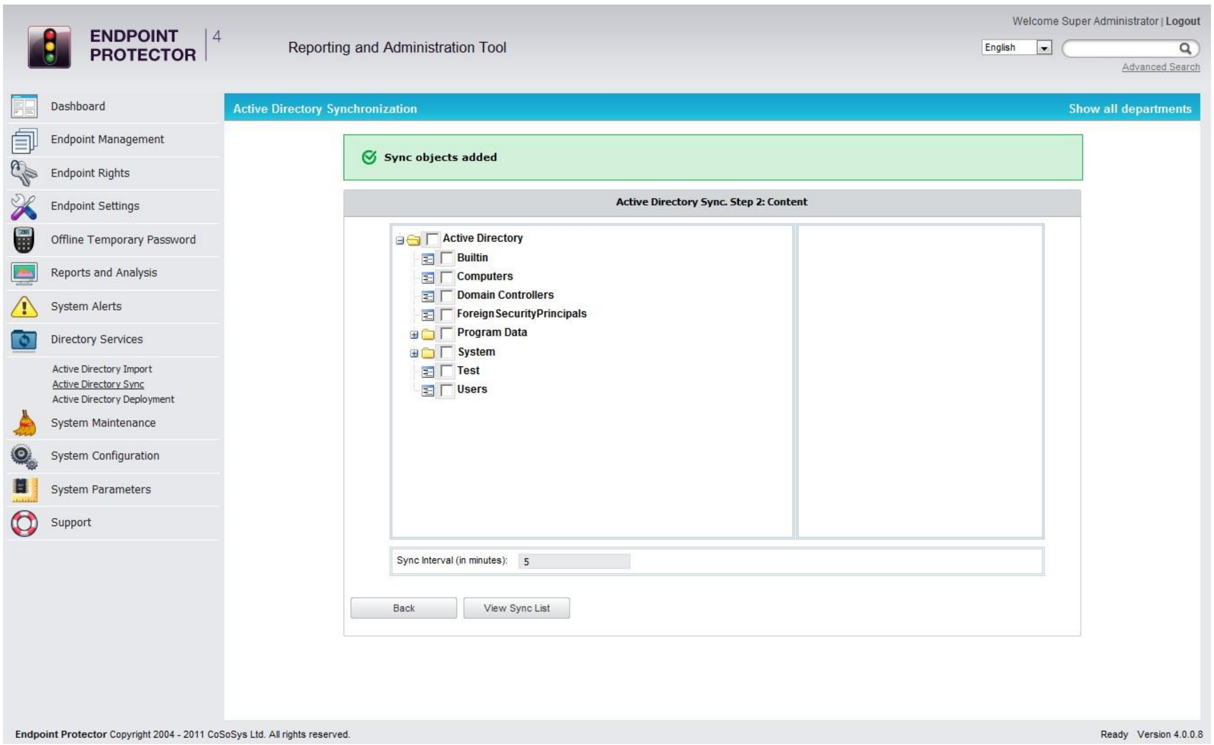


Connection is valid.

- □ Active Directory
  - □ Builtin
  - ☑ Computers
  - □ Domain Controllers
  - □ ForeignSecurityPrincipals
  - □ Program Data
  - □ System
  - □ Test
  - □ Users

Sync Interval (in minutes):

You will see the message "Sync object added".

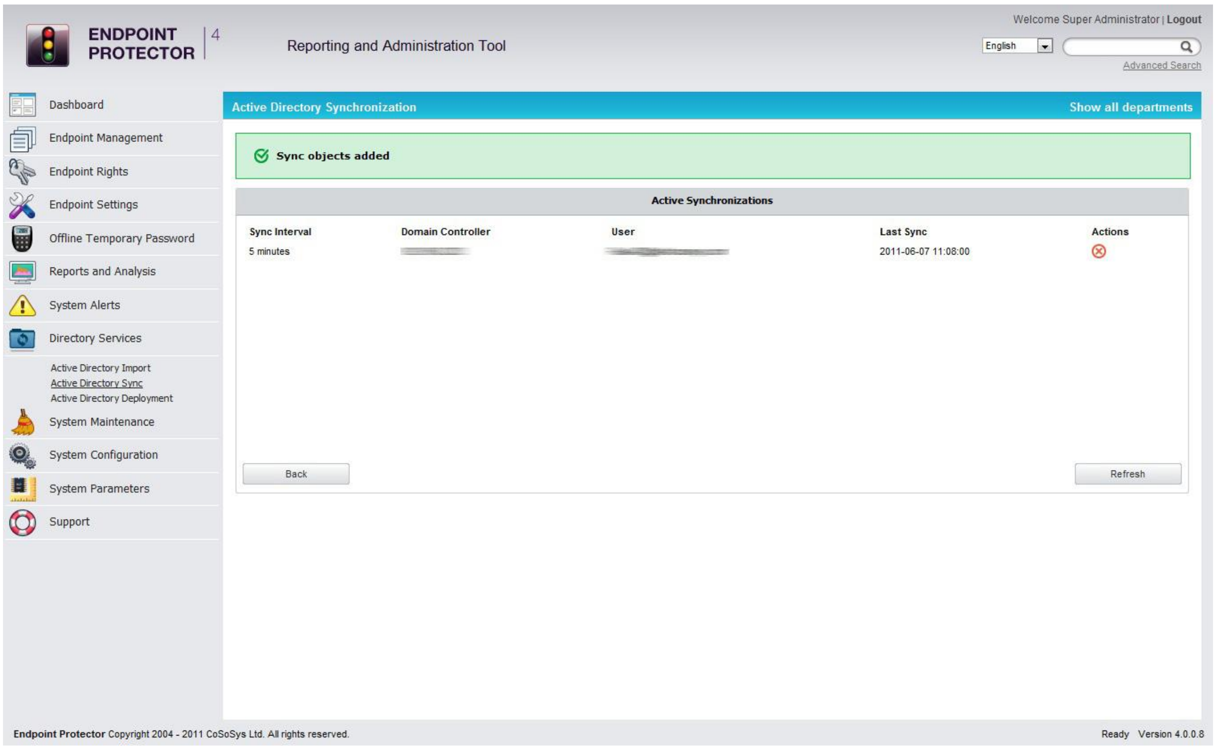


Sync objects added

- □ Active Directory
  - □ Builtin
  - □ Computers
  - □ Domain Controllers
  - □ ForeignSecurityPrincipals
  - □ Program Data
  - □ System
  - □ Test
  - □ Users

Sync Interval (in minutes): 5

You can set up multiple synchronizations from multiple locations at once. These can be viewed and canceled in the “View Sync List”.



Active Directory Synchronization — Show all departments

✓ Sync objects added

Active Synchronizations

Sync Interval	Domain Controller	User	Last Sync	Actions
5 minutes	[redacted]	[redacted]	2011-06-07 11:08:00	⊗

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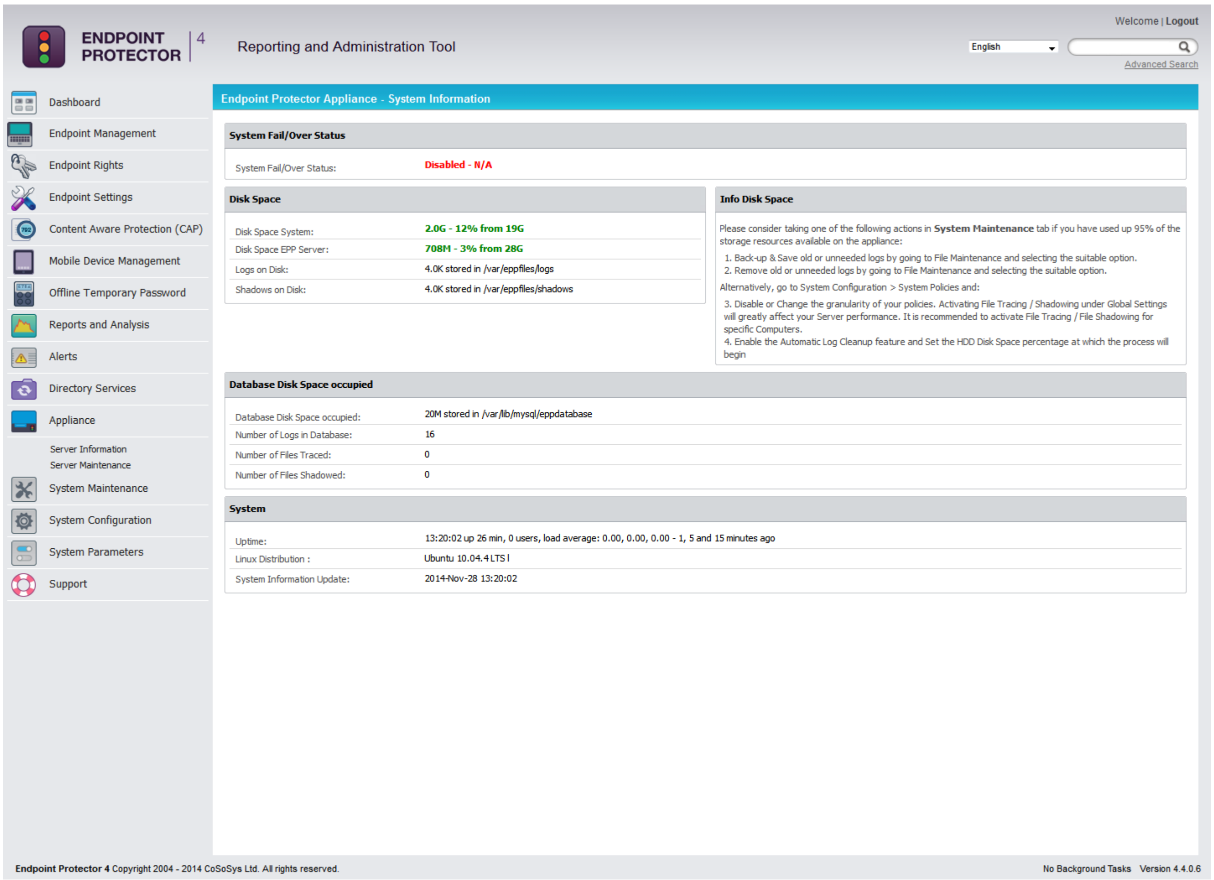
Ready Version 4.0.0.8

11. Appliance

11.1. Server Information

This view offers the administrator general information about the Server, the Fail/Over function, the total Disk Usage and the Uptime.



Endpoint Protector Appliance - System Information

System Fail/Over Status

System Fail/Over Status:	Disabled - N/A

Disk Space

Disk Space System:	2.0G - 12% from 19G
Disk Space EPP Server:	708M - 3% from 28G
Logs on Disk:	4.0K stored in /var/eppfiles/logs
Shadows on Disk:	4.0K stored in /var/eppfiles/shadows

Info Disk Space

Please consider taking one of the following actions in **System Maintenance** tab if you have used up 95% of the storage resources available on the appliance:

1. Back-up & Save old or unneeded logs by going to File Maintenance and selecting the suitable option.
2. Remove old or unneeded logs by going to File Maintenance and selecting the suitable option.

Alternatively, go to System Configuration > System Policies 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.
4. Enable the Automatic Log Cleanup feature and Set the HDD Disk Space percentage at which the process will begin

Database Disk Space occupied

Database Disk Space occupied:	20M stored in /var/lib/mysql/eppdatabase
Number of Logs in Database:	16
Number of Files Traced:	0
Number of Files Shadowed:	0

System

Uptime:	13:20:02 up 26 min, 0 users, load average: 0.00, 0.00, 0.00 - 1, 5 and 15 minutes ago
Linux Distribution :	Ubuntu 10.04.4 LTS l
System Information Update:	2014-Nov-28 13:20:02

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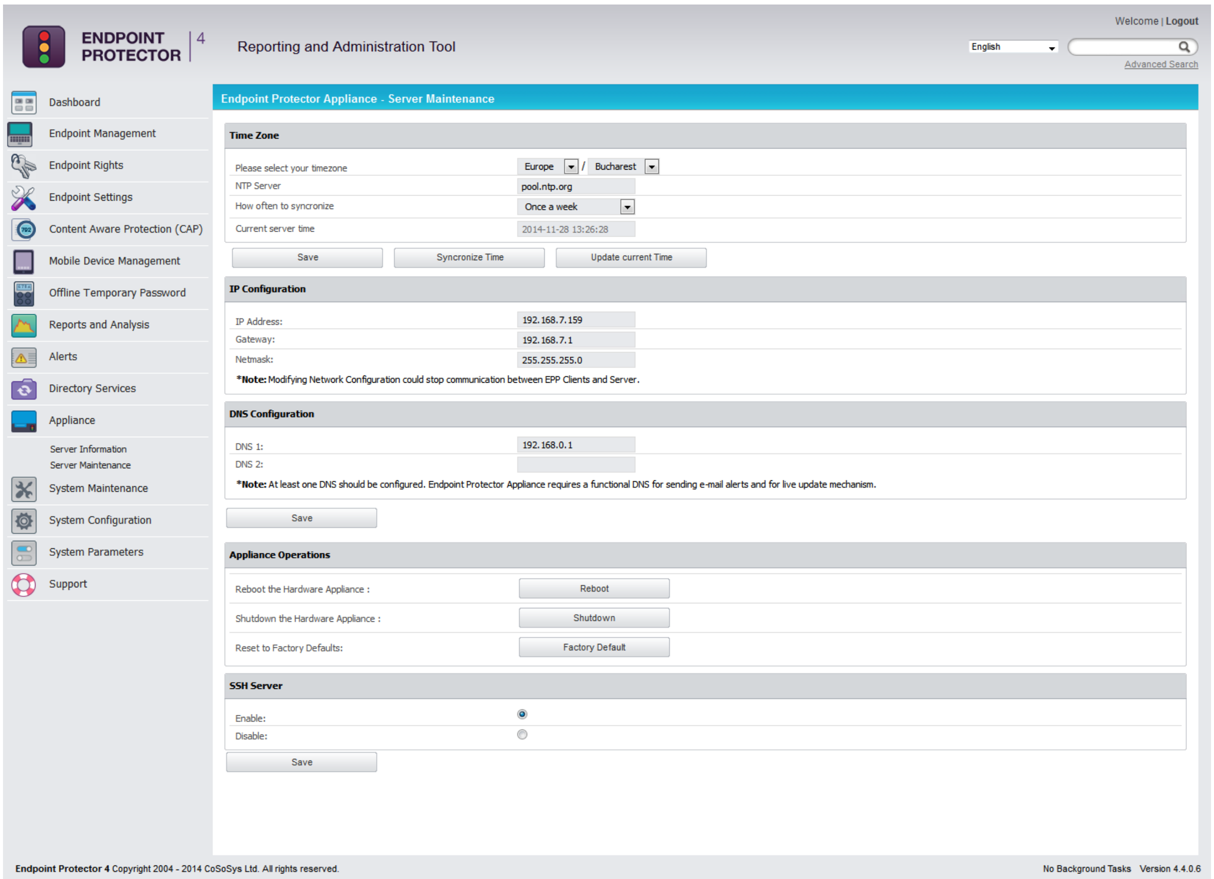
No Background Tasks Version 4.4.0.6

11.2. Server Maintenance

From this view the administrator can: setup a preferential time zone and NTP synchronization server, configure his IP and DNS, perform routine operations such as Reboot and Shutdown as well as Enable/Disable the SSH access.



Endpoint Protector Appliance - Server Maintenance

Time Zone

Please select your timezone	Europe / Bucharest
NTP Server	pool.ntp.org
How often to syncronize	Once a week
Current server time	2014-11-28 13:26:28

IP Configuration

IP Address:	192.168.7.159
Gateway:	192.168.7.1
Netmask:	255.255.255.0

***Note:** Modifying Network Configuration could stop communication between EPP Clients and Server.

DNS Configuration

DNS 1:	192.168.0.1
DNS 2:	

***Note:** At least one DNS should be configured. Endpoint Protector Appliance requires a functional DNS for sending e-mail alerts and for live update mechanism.

Appliance Operations

Reboot the Hardware Appliance :

Shutdown the Hardware Appliance :

Reset to Factory Defaults:

SSH Server

Enable: ●

Disable: ○

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No Background Tasks Version 4.4.0.6

11.2.1. Time Zone Settings

This menu allows the administrator to set a preferential time zone and/or sync the appliance to a NTP source.

Pressing the Save button will save all the changes, but it will not trigger the synchronization process!

Pressing the Syncronize Time button will 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.

Pressing the button will update the display below.

Current server time 2014-11-28 13:54:51

Note!

The appliances come preset to sync once a week with pool.ntp.org.

11.2.2. Network Settings

Here you can change the network settings for the appliance to communicate correctly in your network.

Attention!

After you change the IP address, close the Internet browser, then reopen a new instance of your browser. Afterwards try to access the Endpoint Protector Administration and Reporting Tool with the NEW IP address!

11.2.3. Reset Appliance to Factory Default

A reset to Factory will erase all settings, policies, certificates and other data on the Appliance. If you reset to factory default, all settings and the communication between Appliance and Endpoint Protector Clients will be interrupted.

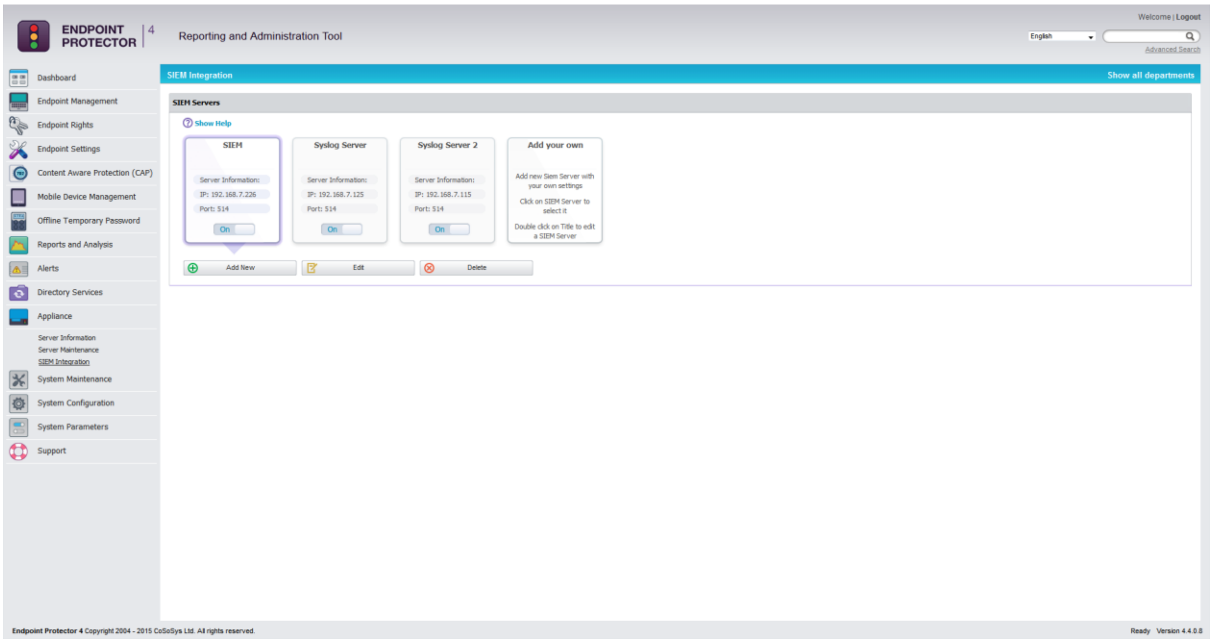
11.2.4. SSH Server

This option will either enable or disable the access to the Appliance through the SSH protocol. It is recommended to be set on **Enable** before requesting Support access.

11.3. SIEM Integration

Third-party security information and event management (SIEM) tools allow the logging and analysis of logs generated by network devices and software. Integration with SIEM technology allows Endpoint Protector to transfer activity events to a SIEM server for analysis and reporting.

Administrators can access SIEM Integration from the sub-menu at Appliance -> SIEM Integration.



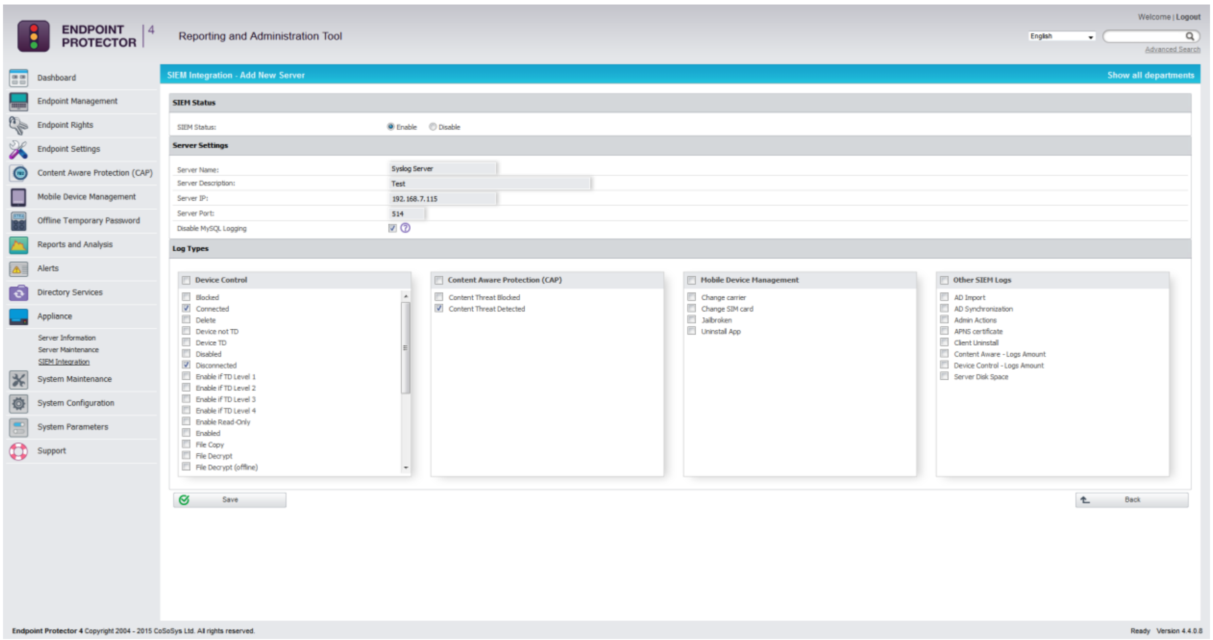
SIEM
Server Information:
IP: 192.168.7.226
Port: 514
On

Syslog Server
Server Information:
IP: 192.168.7.125
Port: 514
On

Syslog Server 2
Server Information:
IP: 192.168.7.115
Port: 514
On

Add your own
Add new Siem Server with your own settings
Click on SIEM Server to select it
Double click on Title to edit a SIEM Server

The available actions are: **Add New**, **Edit** and **Delete**. A new SIEM server can be added also by clicking on the **Add your own** icon. An existing server address can be edited also by double-clicking the upper part of the policy icon.



SIEM Status

SIEM Status: ● Enable ○ Disable

Server Settings

Server Name:	Syslog Server
Server Description:	Test
Server IP:	192.168.7.115
Server Port:	514
Disable MySQL Logging	☑

Log Types

□ Device Control
- □ Blocked
- ☑ Connected
- □ Delete
- □ Device not TD
- □ Device TD
- □ Disabled
- ☑ Disconnected
- □ Enable if TD Level 1
- □ Enable if TD Level 2
- □ Enable if TD Level 3
- □ Enable if TD Level 4
- □ Enable Read-Only
- □ Enabled
- □ File Copy
- □ File Decrypt
- □ File Decrypt (offline)

□ Content Aware Protection (CAP)
- □ Content Threat Blocked
- ☑ Content Threat Detected

□ Mobile Device Management
- □ Change carrier
- □ Change SIM card
- □ Jailbroken
- □ Uninstall App

□ Other SIEM Logs
- □ AD Import
- □ AD Synchronization
- □ Admin Actions
- □ APNS certificate
- □ Client Uninstall
- □ Content Aware - Logs Amount
- □ Device Control - Logs Amount
- □ Server Disk Space

Note!

The maximum number of SIEM hosts configured at one any given time is four (4)

The menu for each SIEM address consists of the following settings and parameters: **Server Name, Server Description, Server IP, Server Port** and **Disable MySQL Logging.**

Note!

Checking the option to Disable MySQL Logging will set the system to record logs only on the SIEM target and not inside Endpoint Protector itself.

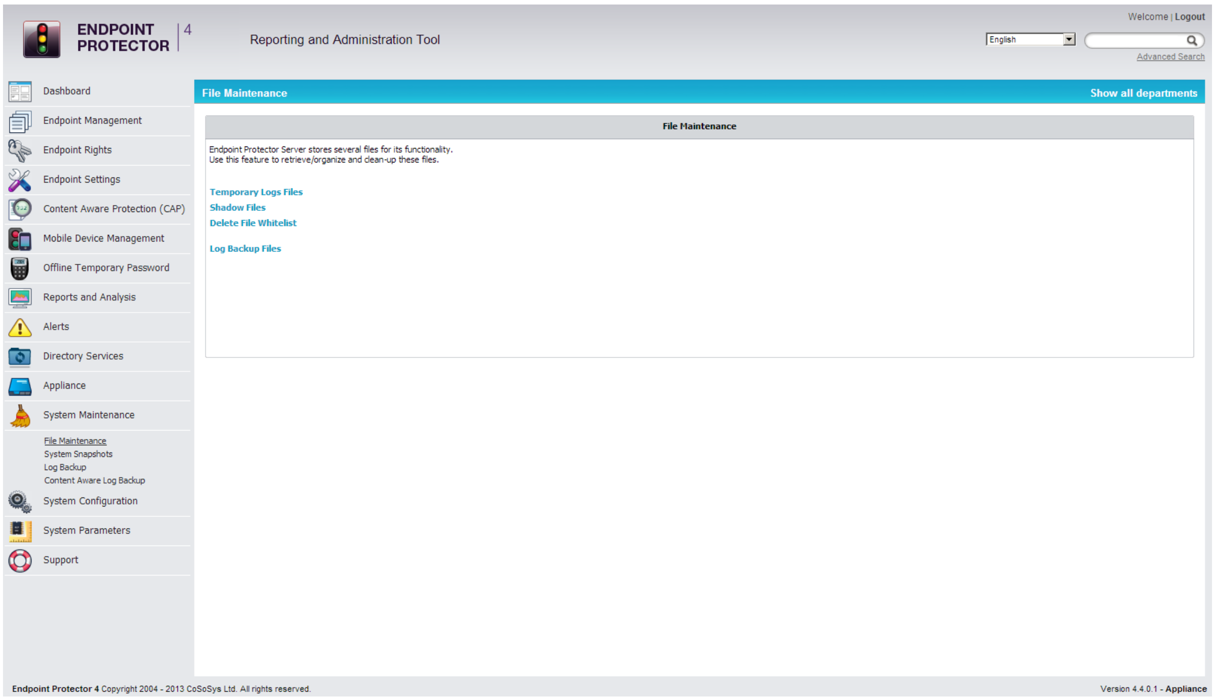
The TCP ports used by rsyslog are by default 513 and 514.

After all the above parameters are set to point to a valid SIEM server, the administrator must choose from Log Types which events in particular to send to the SIEM target.

12. System Maintenance

12.1. File Maintenance

This module allows the administrator to retrieve/organize and clean-up files used by Endpoint Protector Server.



Endpoint Protector Server stores several files for its functionality.
Use this feature to retrieve/organize and clean-up these files.

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Version 4.4.0.1 - Appliance

The available options are:

- **Temporary Log Files**: allows archiving and deleting log files from a selected client computer
- **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

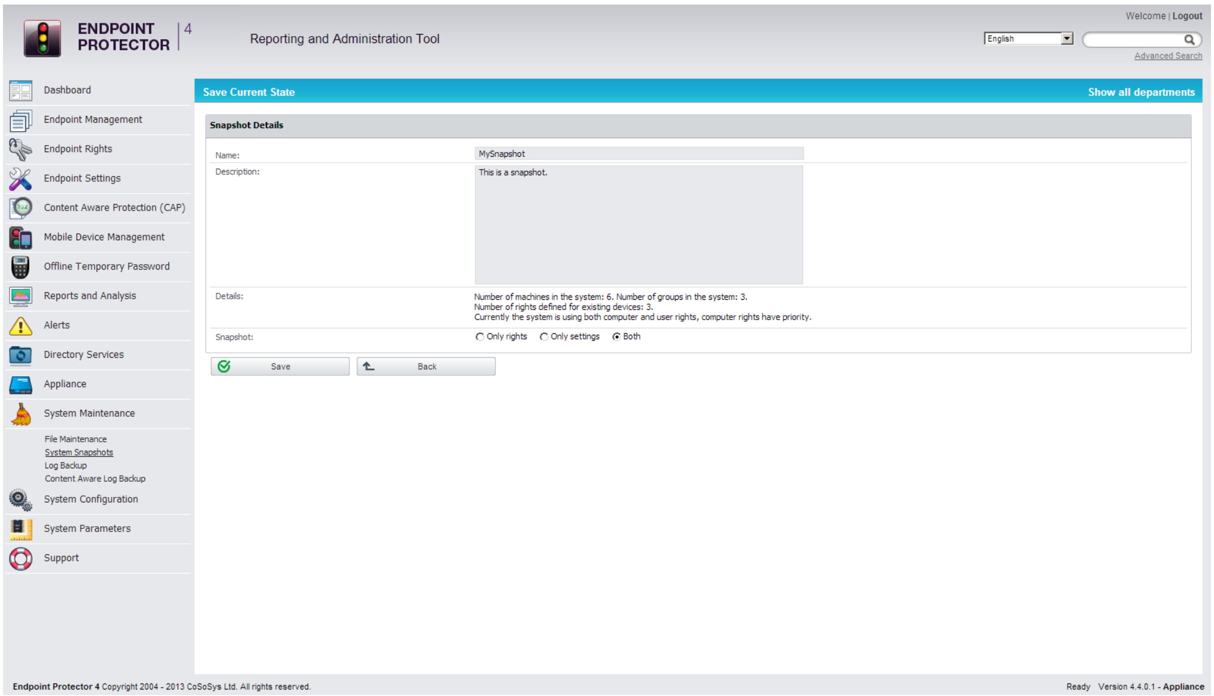
To archive a previously selected set of files, click the “Save as Zip” button, while to permanently remove a set of files from the Endpoint Protector Server use the “Delete” button.

12.2. 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.

After installing the Endpoint Protector 4 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, access the module from System Configuration and click “Make Snapshot”.



Snapshot Details

Name: MySnapshot

Description: This is a snapshot.

Details: Number of machines in the system: 6. Number of groups in the system: 3.
Number of rights defined for existing devices: 3.
Currently the system is using both computer and user rights, computer rights have priority.

Snapshot: ○ Only rights ○ Only settings ● Both

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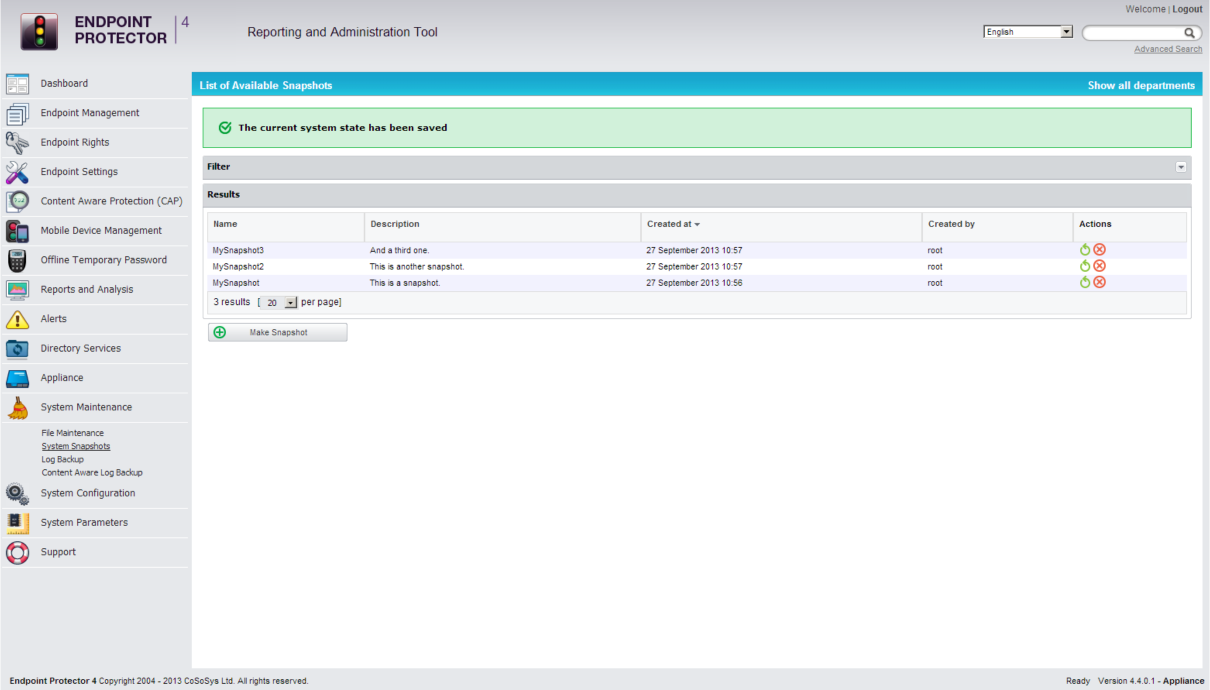
Ready Version 4.4.0.1 - Appliance

Enter a name for the snapshot, and a description. Select also what you wish to store in the snapshot, Only Rights, Only Settings, or Both.

Finally, click “Save”.



List of Available Snapshots

The current system state has been saved

Results

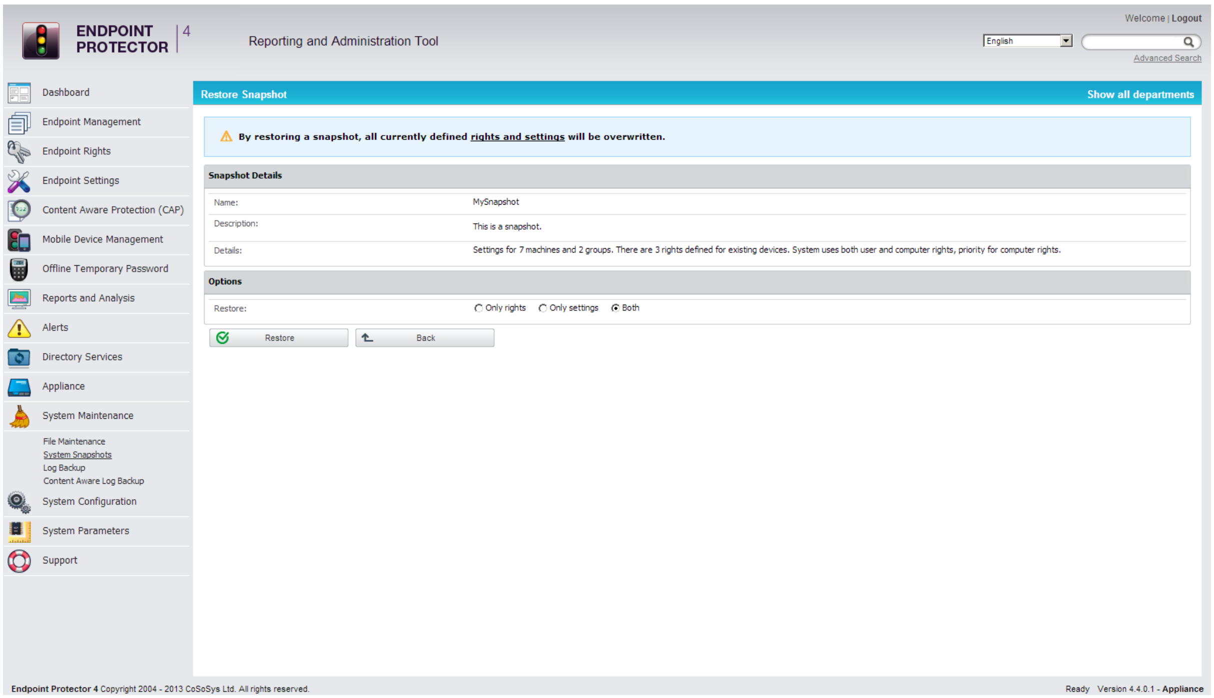
Name	Description	Created at	Created by	Actions
MySnapshot3	And a third one.	27 September 2013 10:57	root	↺ ⊗
MySnapshot2	This is another snapshot.	27 September 2013 10:57	root	↺ ⊗
MySnapshot	This is a snapshot.	27 September 2013 10:56	root	↺ ⊗

3 results [20 per page]

Your snapshot will appear in the list of System Snapshots.

To restore a previously created snapshot click the “Restore” button next to the desired snapshot. ↺ - Restore

Confirm the action by clicking the “Restore” button again in the next window.



Restore Snapshot

By restoring a snapshot, all currently defined rights and settings will be overwritten.

Snapshot Details

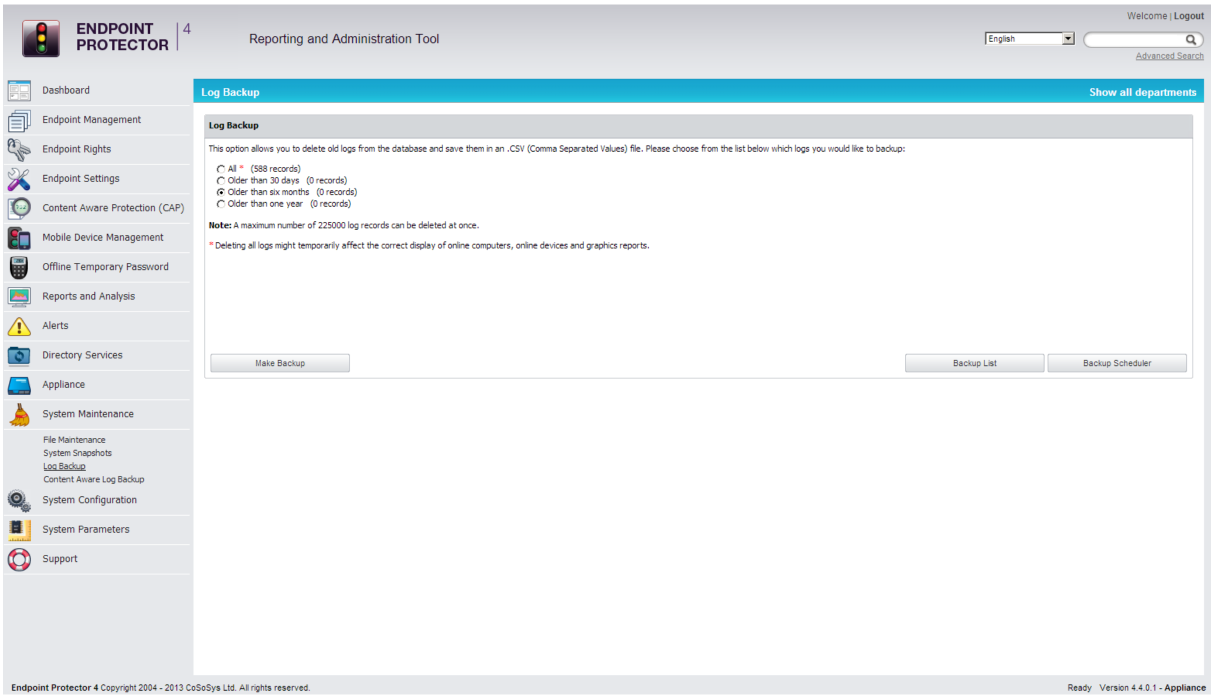
Name:	MySnapshot
Description:	This is a snapshot.
Details:	Settings for 7 machines and 2 groups. There are 3 rights defined for existing devices. System uses both user and computer rights, priority for computer rights.

Options

Restore: ○ Only rights ○ Only settings ● Both

12.3. Log Backup

This module allows you to delete old logs from the database and save them in a .CSV document.



Log Backup

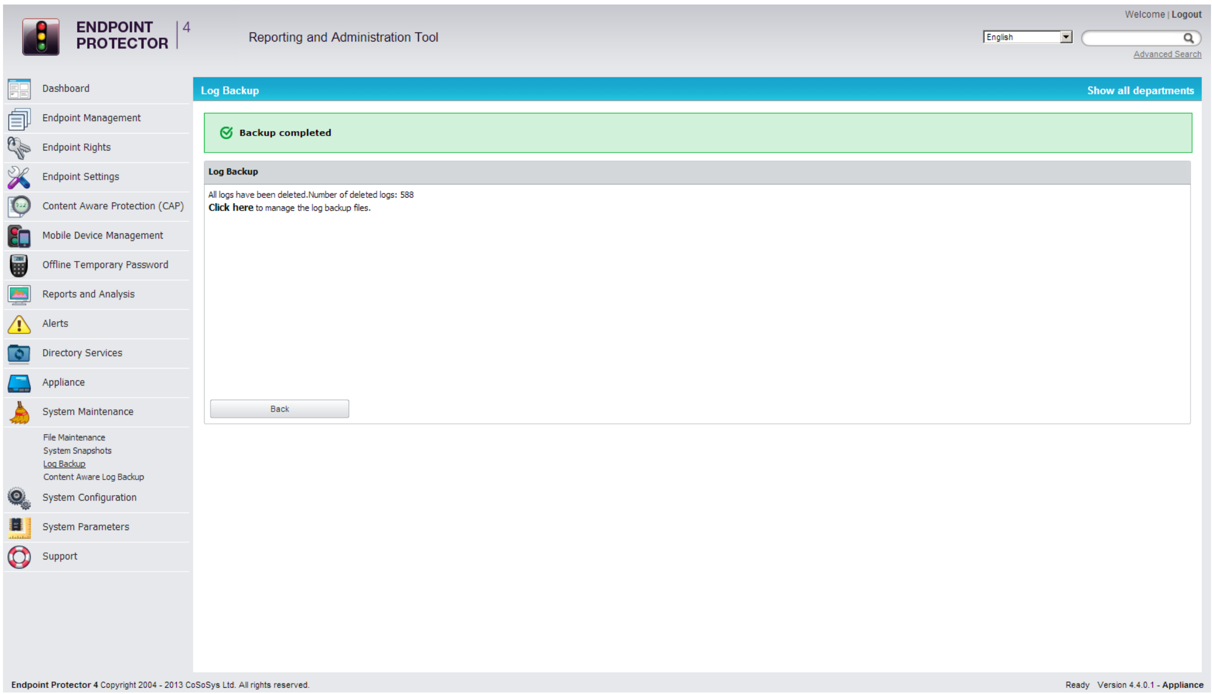
This option allows you to delete old logs from the database and save them in an .CSV (Comma Separated Values) file. Please choose from the list below which logs you would like to backup:

○ All * (588 records)
○ Older than 30 days (0 records)
● Older than six months (0 records)
○ Older than one year (0 records)

Note: A maximum number of 225000 log records can be deleted at once.

* Deleting all logs might temporarily affect the correct display of online computers, online devices and graphics reports.

Here you can select the logs you wish to back-up. Simply select an option and click "Make Backup".



✓ **Backup completed**

Log Backup

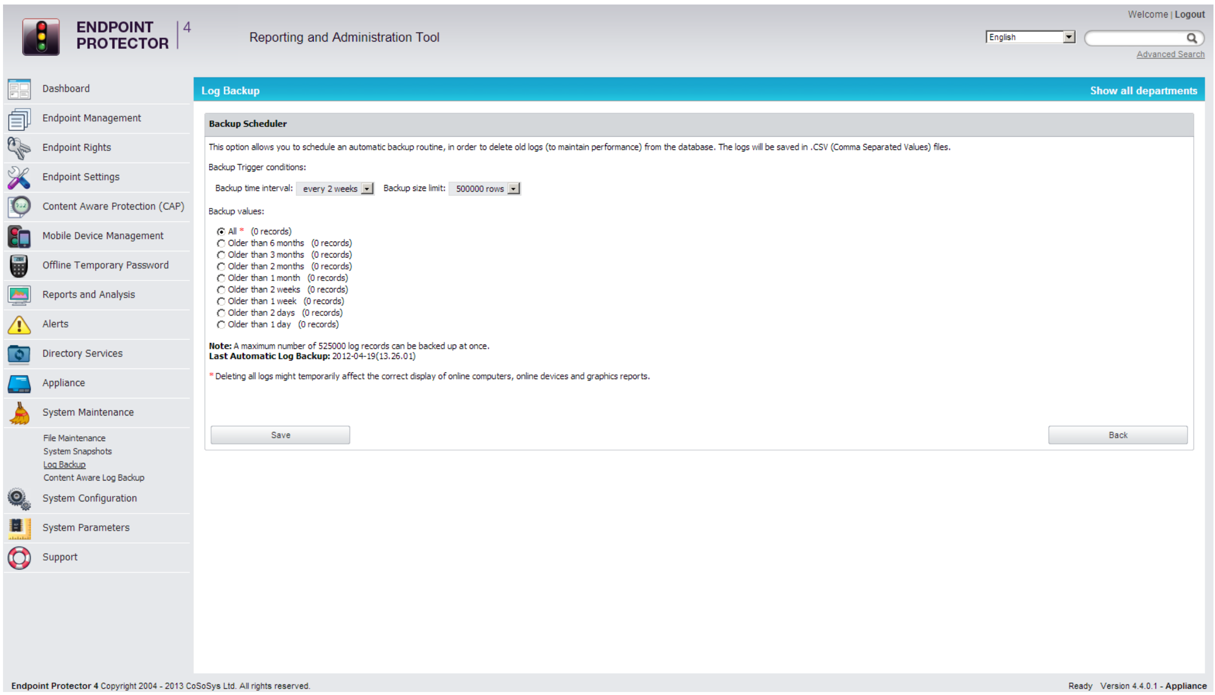
All logs have been deleted.Number of deleted logs: 588
Click here to manage the log backup files.

You should see the message "Backup Completed" in the top-center of your browser.

You can download and view the logs by selecting the "click here" link.

12.3.1. Backup Scheduler (Automatic Log Backup)

You can back up your log files also automatically by using the Backup Scheduler option.



Backup Scheduler

This option allows you to schedule an automatic backup routine, in order to delete old logs (to maintain performance) from the database. The logs will be saved in .CSV (Comma Separated Values) files.

Backup Trigger conditions:

Backup time interval: every 2 weeks Backup size limit: 500000 rows

Backup values:

● All * (0 records)
○ Older than 6 months (0 records)
○ Older than 3 months (0 records)
○ Older than 2 months (0 records)
○ Older than 1 month (0 records)
○ Older than 2 weeks (0 records)
○ Older than 1 week (0 records)
○ Older than 2 days (0 records)
○ Older than 1 day (0 records)

Note: A maximum number of 525000 log records can be backed up at once.
Last Automatic Log Backup: 2012-04-19(13.26.01)

* Deleting all logs might temporarily affect the correct display of online computers, online devices and graphics reports.

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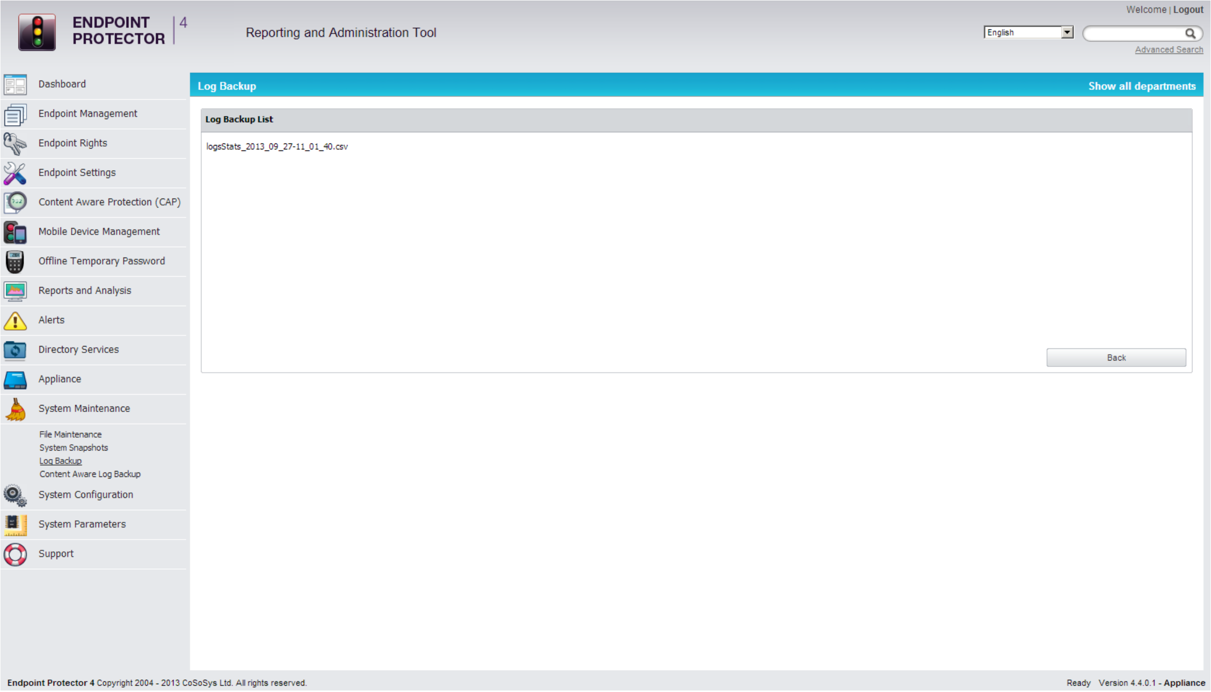
Here you can schedule an automatic backup routine by setting two trigger conditions:

Backup time interval - allows you to select a certain time interval for repeating the backup operation

Backup size limit - allows you to select a maximum size for the logs to be backed up

In case that you don't wish to set a specific value for one or both of these options, please leave the specific field(s) blank. After specifying the logs to be backed up automatically based on their creation time, please click "Save" in order for your options to be applied.

You can view the created backups by using the Backup List option.

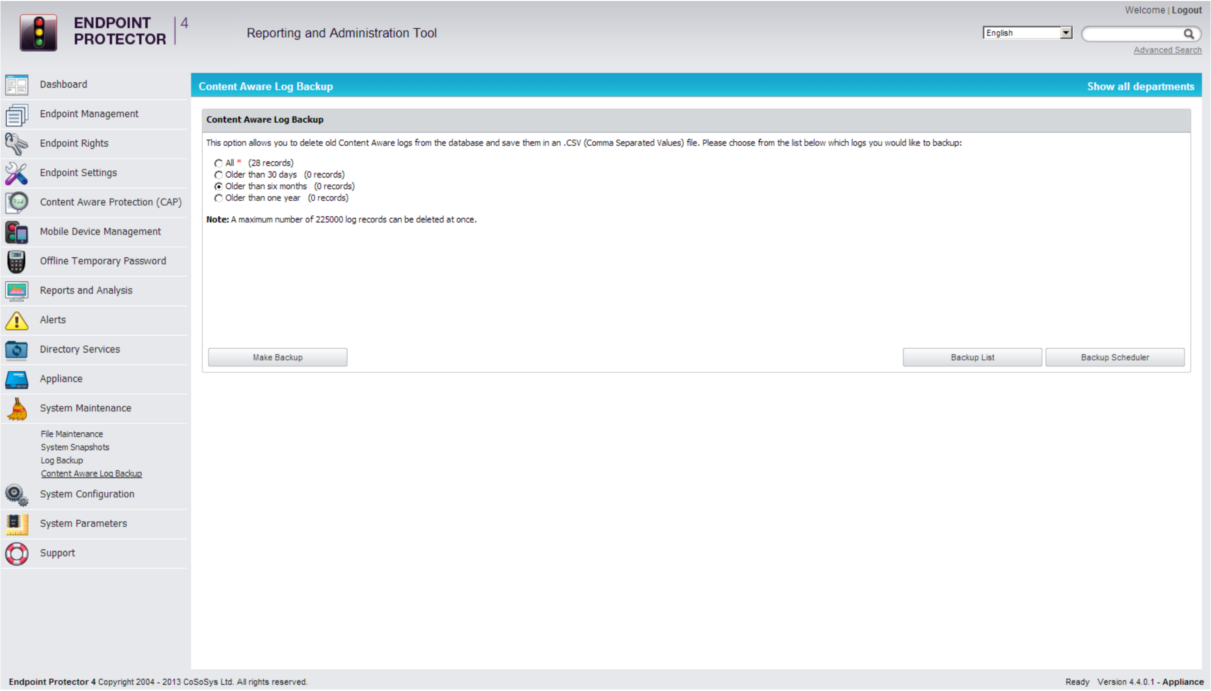


Log Backup List

logsStats_2013_09_27-11_01_40.csv

12.4. Content Aware Log Backup

This module allows you to delete old content aware logs from the database and save them in a .CSV document.



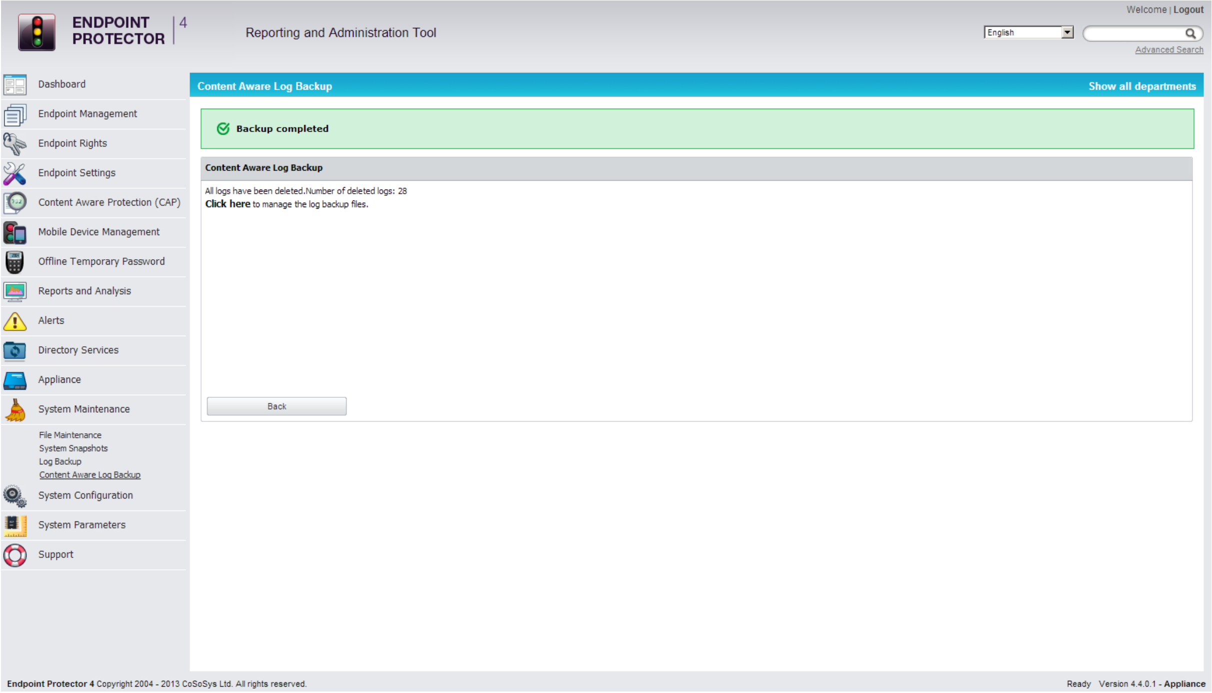
Content Aware Log Backup

This option allows you to delete old Content Aware logs from the database and save them in an .CSV (Comma Separated Values) file. Please choose from the list below which logs you would like to backup:

○ All * (28 records)
○ Older than 30 days (0 records)
● Older than six months (0 records)
○ Older than one year (0 records)

Note: A maximum number of 225000 log records can be deleted at once.

Here you can select the logs you wish to backup. Simply select an option and click “Make Backup”.



✓ **Backup completed**

Content Aware Log Backup

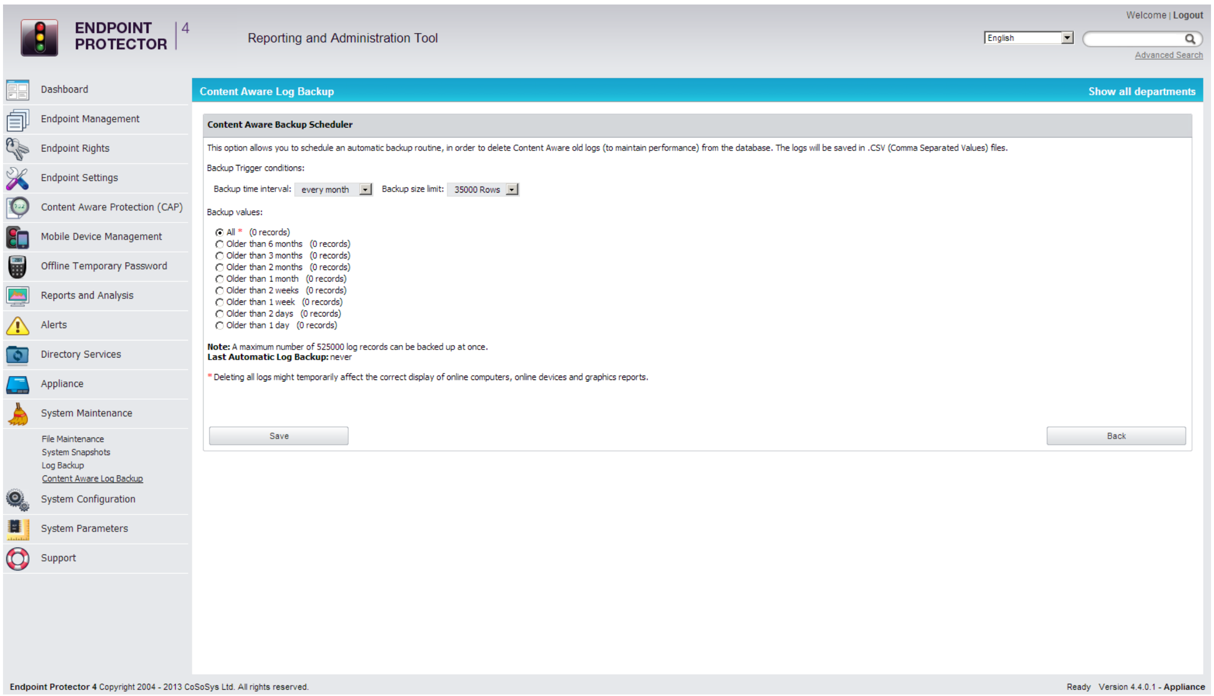
All logs have been deleted.Number of deleted logs: 28
Click here to manage the log backup files.

You should see the message “Backup Completed” in the top-center of your browser.

You can download and view the logs by selecting the “click here” link.

12.4.1. Automatic Scheduler (Automatic CAP Log Backup)

You can back up your log files also automatically by using the Backup Scheduler option.



Content Aware Backup Scheduler

This option allows you to schedule an automatic backup routine, in order to delete Content Aware old logs (to maintain performance) from the database. The logs will be saved in .CSV (Comma Separated Values) files.

Backup Trigger conditions:

Backup time interval: every month Backup size limit: 35000 Rows

Backup values:

● All * (0 records)
○ Older than 6 months (0 records)
○ Older than 3 months (0 records)
○ Older than 2 months (0 records)
○ Older than 1 month (0 records)
○ Older than 2 weeks (0 records)
○ Older than 1 week (0 records)
○ Older than 2 days (0 records)
○ Older than 1 day (0 records)

Note: A maximum number of 525000 log records can be backed up at once.
Last Automatic Log Backup: never

* Deleting all logs might temporarily affect the correct display of online computers, online devices and graphics reports.

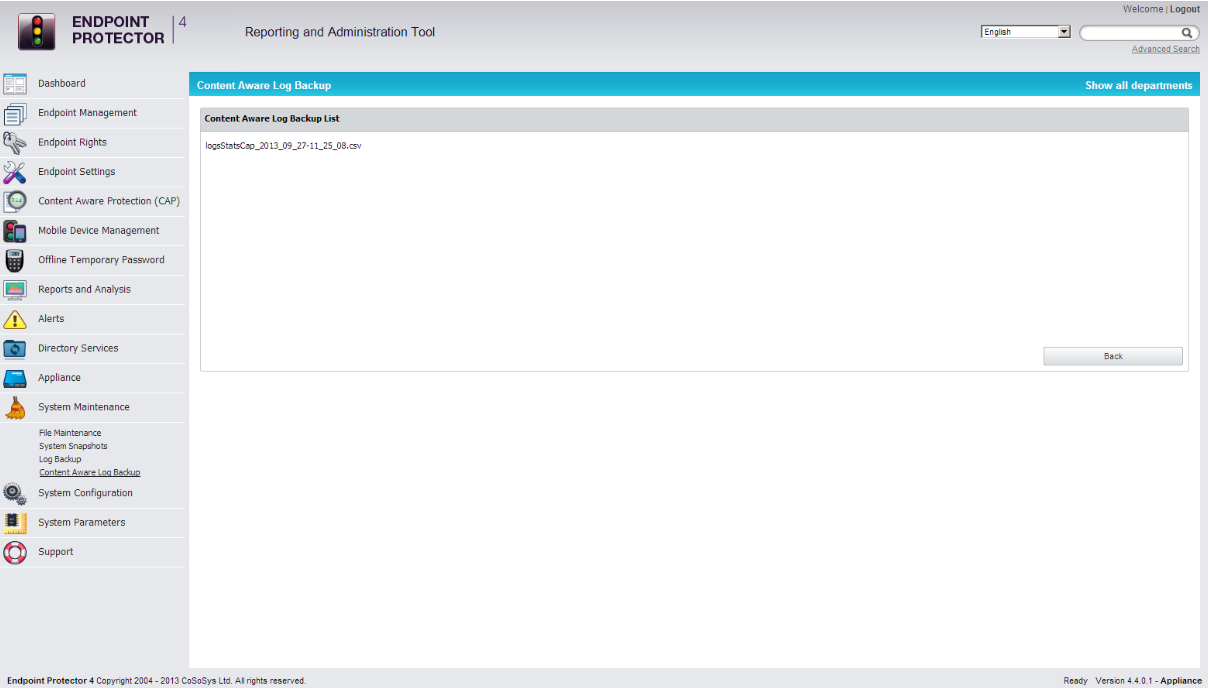
Here you can schedule an automatic backup routine by setting two trigger conditions:

Backup time interval - allows you to select a certain time interval for repeating the backup operation

Backup size limit - allows you to select a maximum size for the logs to be backed up

In case that you don't wish to set a specific value for one or both of these options, please leave the specific field(s) blank. After specifying the logs to be backed up automatically based on their creation time, please click "Save" in order for your options to be applied.

You can view the created backups by using the Backup List option.



Content Aware Log Backup — Show all departments

Content Aware Log Backup List

logsStatsCap_2013_09_27-11_25_08.csv

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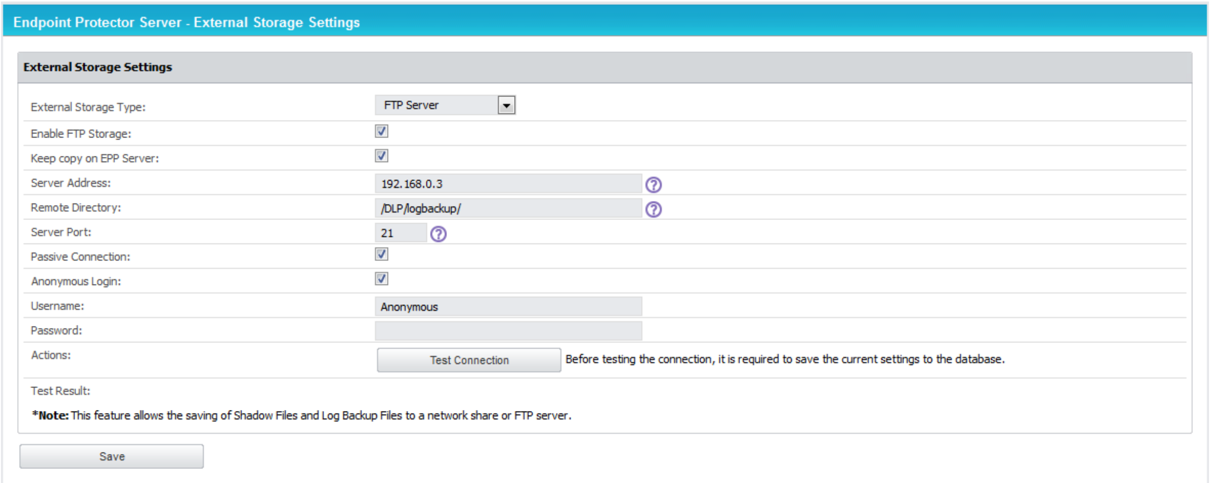
Ready Version 4.4.0.1 - Appliance

12.5. External Storage

The External Storage option allows the administrator to save the Log Backup files and Shadowed files generated by Endpoint Protector to a particular storage disk from his network. The two mediums supported are FTP and Samba / Network shares.

12.5.1. FTP Server

The configuration parameters which enable the backup of these files on an existent FTP share are shown below:



Endpoint Protector Server - External Storage Settings

External Storage Settings

External Storage Type:	FTP Server
Enable FTP Storage:	☑
Keep copy on EPP Server:	☑
Server Address:	192.168.0.3
Remote Directory:	/DLP/logbackup/
Server Port:	21
Passive Connection:	☑
Anonymous Login:	☑
Username:	Anonymous
Password:	
Actions:	Test Connection Before testing the connection, it is required to save the current settings to the database.
Test Result:	

***Note:** This feature allows the saving of Shadow Files and Log Backup Files to a network share or FTP server.

Enable FTP Storage: This button must be checked for the external storage process to run

Keep Copy on the EPP Server: This option enables the administrator to choose whether the logs should be mirrored on both the external storage and on the application.

Server Address: A regular IP ie. 192.168.0.10

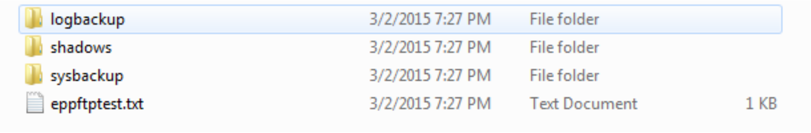
Remote Directory: The directory path on the FTP share where the logs will be stored. Trailing directory separators are needed i.e /DLP/logbackup/

Server Port: By default, the FTP application port is 21.

Note!

The parameter values must be saved before the "Test Connection" option is checked.

Inside the path provided for the storage of backups, Endpoint Protector will create a number of files as seen below.

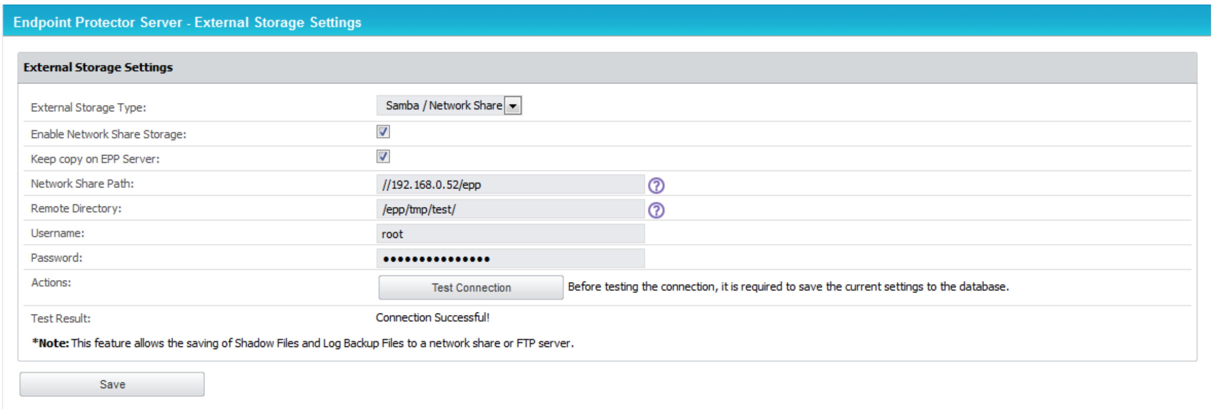


logbackup	3/2/2015 7:27 PM	File folder	
shadows	3/2/2015 7:27 PM	File folder	
sysbackup	3/2/2015 7:27 PM	File folder	
eppftptest.txt	3/2/2015 7:27 PM	Text Document	1 KB

- Logbackup – inside it all the backups will be stored, both for Device Control and Content Aware Protection
- Shadows – it is the folder in which the shadowed files will be stored, both for Device Control and Content Aware Protection
- Sysbackup – inside it all the created system backups can be stored
- eppftptest.txt – it is created to test the connection between the FTP share and the appliance.

12.5.2. Samba / Network Share

The configuration parameters which enable the backup of these files on an existent Samba / Network Share are shown below:



Endpoint Protector Server - External Storage Settings

External Storage Settings

External Storage Type:	Samba / Network Share
Enable Network Share Storage:	☑
Keep copy on EPP Server:	☑
Network Share Path:	//192.168.0.52/epp
Remote Directory:	/epp/tmp/test/
Username:	root
Password:	•••••••••••••••
Actions:	Test Connection Before testing the connection, it is required to save the current settings to the database.
Test Result:	Connection Successful!

***Note:** This feature allows the saving of Shadow Files and Log Backup Files to a network share or FTP server.

Enable Network Share Storage: This button must be checked for the external storage option to run

Keep Copy on the EPP Server: This option enables the administrator to choose whether the files should be mirrored on both the external storage and on the application.

Network Share Path: A path to the shared directory i.e //192.168.0.10/epp

Remote Directory: The directory path on the Network Share where the files will be stored. Trailing directory separators are needed i.e /epp/tmp/logs

Note!

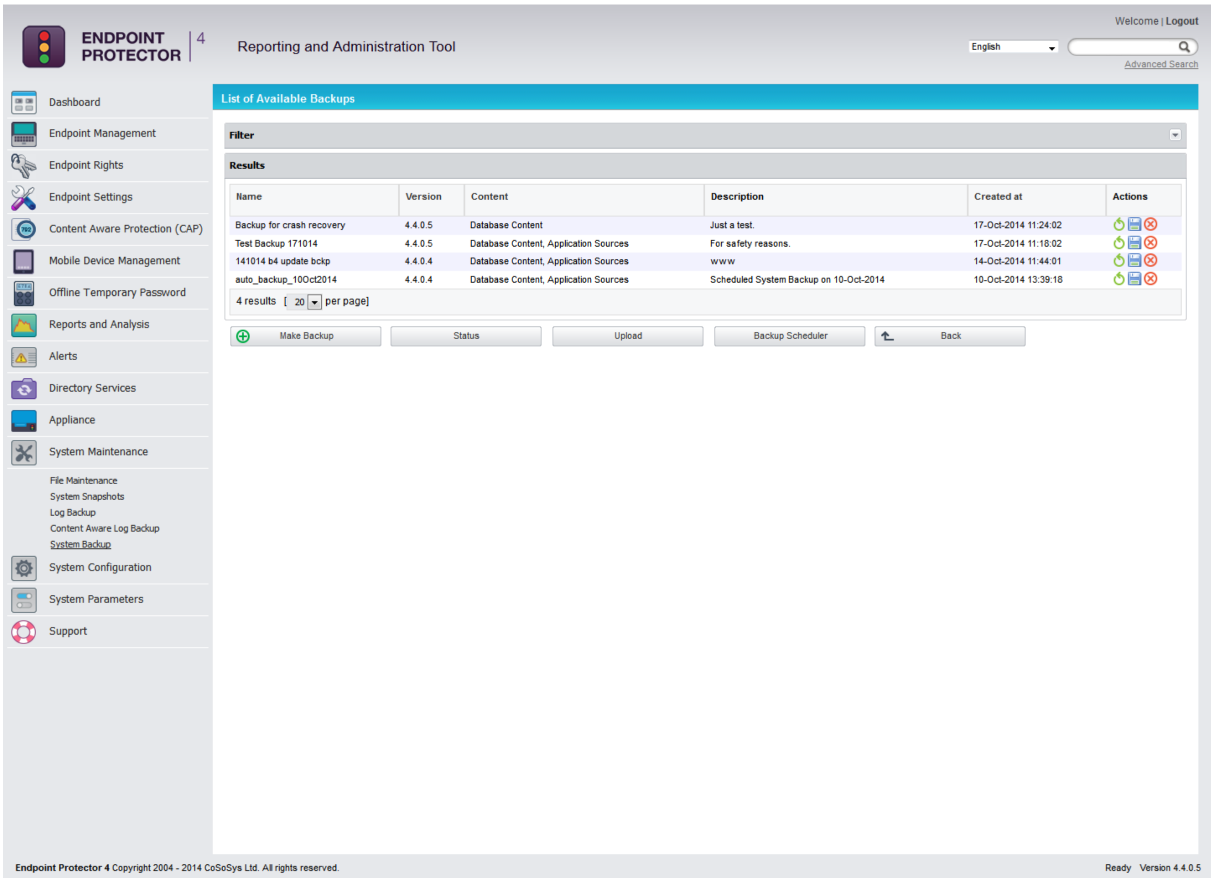
The parameter values must be saved before the “Test Connection” option is checked.

In the same way as presented for FTP storage, inside the path provided for the storage of backups, Endpoint Protector will create those folders meant for different storage of logs, shadows or system backups and the file eppnstest.txt.

12.6. System Backup

12.6.1. From the Web Interface

This module allows the administrator to make complete system backups.



Name	Version	Content	Description	Created at	Actions
Backup for crash recovery	4.4.0.5	Database Content	Just a test.	17-Oct-2014 11:24:02	↻ 💾 ⊗
Test Backup 171014	4.4.0.5	Database Content, Application Sources	For safety reasons.	17-Oct-2014 11:18:02	↻ 💾 ⊗
141014 b4 update bckp	4.4.0.4	Database Content, Application Sources	www	14-Oct-2014 11:44:01	↻ 💾 ⊗
auto_backup_10Oct2014	4.4.0.4	Database Content, Application Sources	Scheduled System Backup on 10-Oct-2014	10-Oct-2014 13:39:18	↻ 💾 ⊗

4 results [20 per page]

From the menu at **System Maintenance -> System Backup** one can view in a list the current existing backups. The administrative actions available are: **Restore**, **Download** and **Delete**.

To restore the system to an earlier state, simply click the **Restore** button ↻ next to the desired backup. Confirm the action by clicking the button again in the next window.

The Download button will prompt the administrator to save the **.eppb** backup file on the local drive. It is recommended to keep a good record of where these files are saved.

Note!

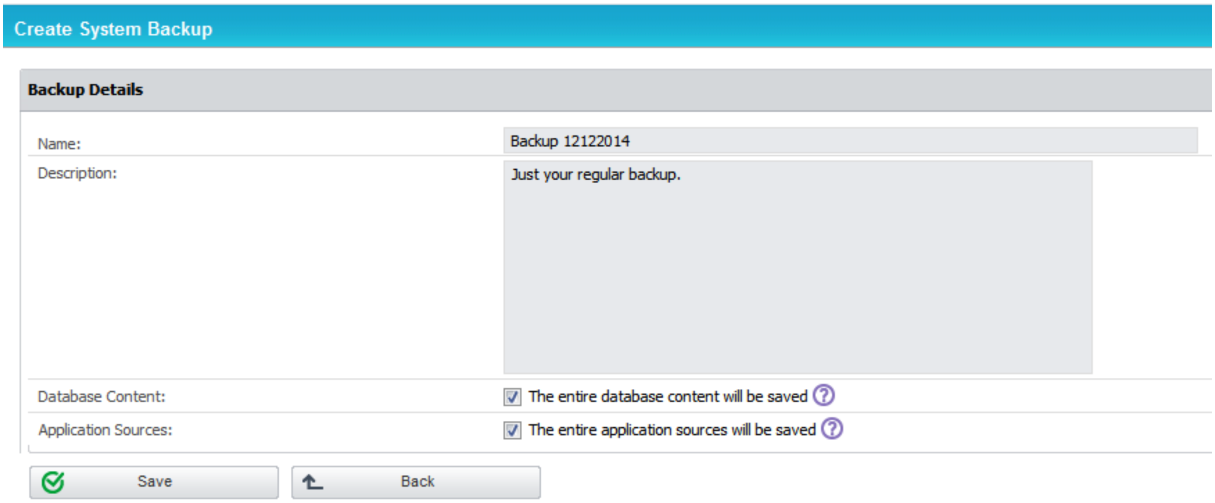
We recommend asking for Support assistance at **support@endpointprotector.com** when using the Restore Backup feature.

Note!

Once deleted, a backup cannot be recovered.

The sub-menus available from **System Maintenance -> System Backup** are: **Make Backup**, **Status**, **Upload** and **Backup Scheduler**.

The first options, **Make Backup**, opens the following menu:



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

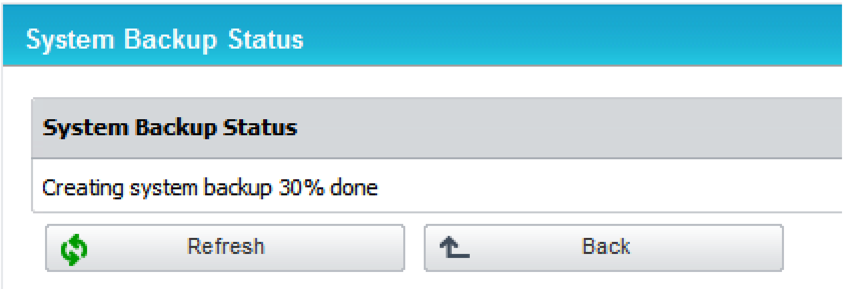
The administrator is presented here with two options:

- To save the **Database content**. This option will make the backup file contain all the devices, rights, logs, settings and policies present on the EPP server at the making of the backup.
- To save the **Application sources**. This option will make the backup 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.

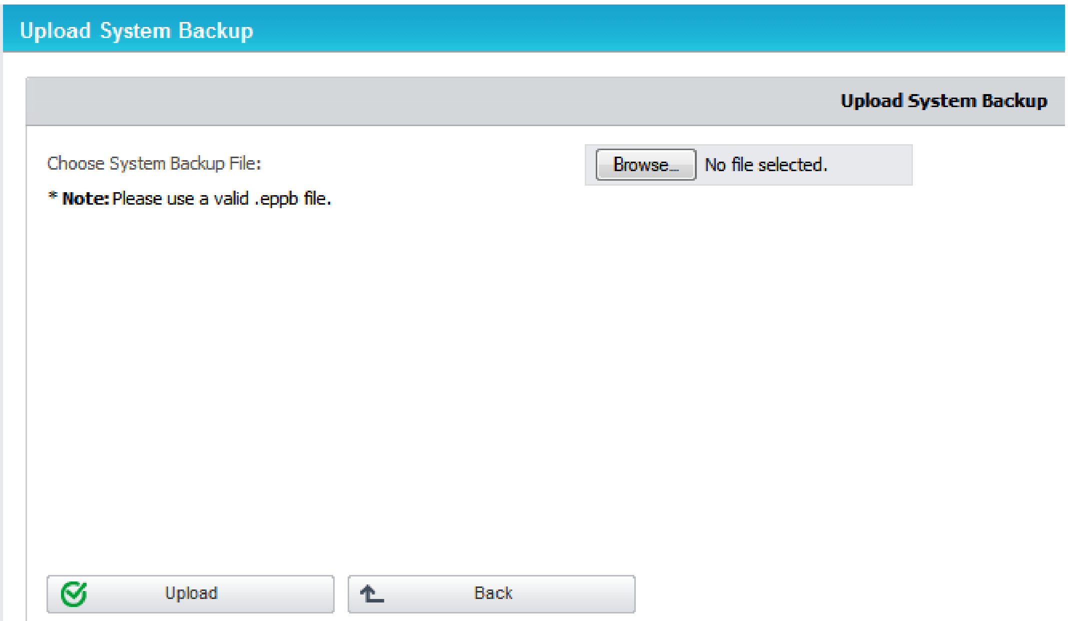
The second menu, **Status**, returns the state of the system. If a backup creation is in progress, it will be reported as seen below.



Creating system backup 30% done

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 the administrator to populate the backup list with **.eppb** files from the local filesystem. This functionality is useful in cases of server migration or crash recovery. The view is as seen below:



Upload System Backup

Upload System Backup

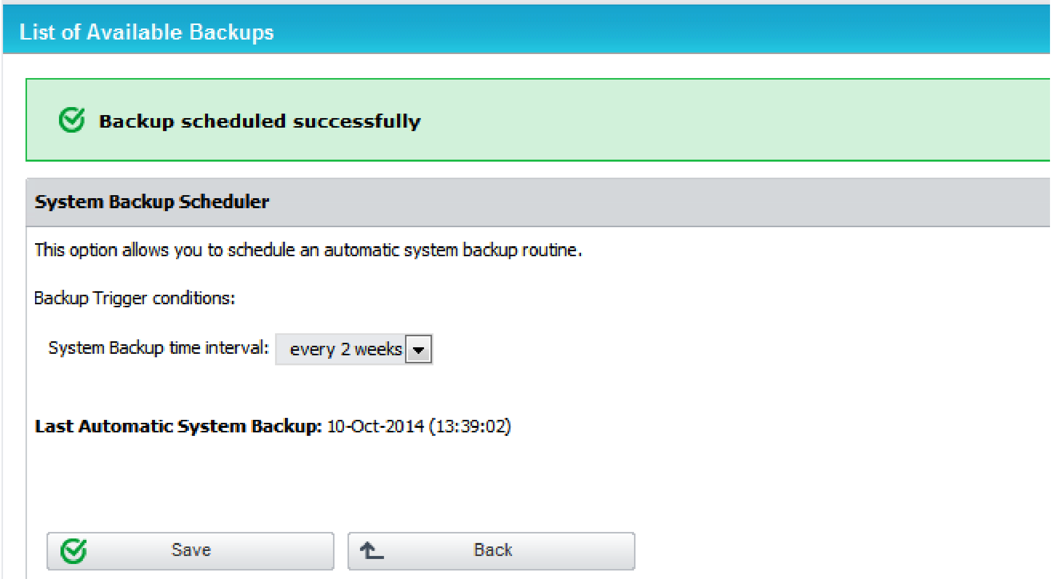
Choose System Backup File: [Browse... No file selected.]

* **Note:** Please use a valid .eppb file.

Note!

Endpoint Protector Backup Files (.eppb) that are 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.

The final menu is the **Backup Scheduler**.



List of Available Backups

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)

From this view the administrator 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.

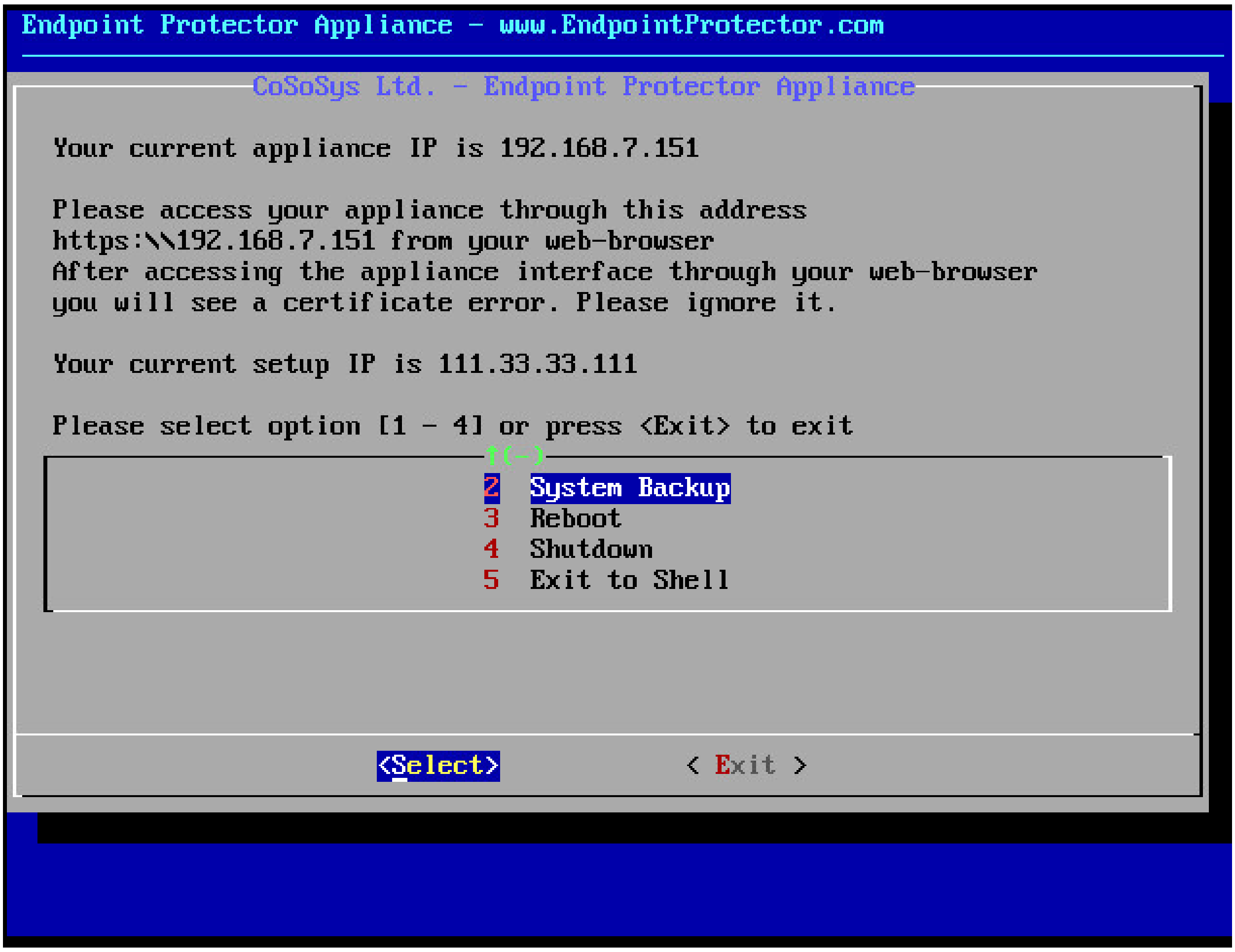
The Scheduler will also prompt the administrator with the **Last Automatic System Backup reminder**.

Note!

A scheduled routine is recommended in order to prevent unwanted loss.

12.6.2. 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.



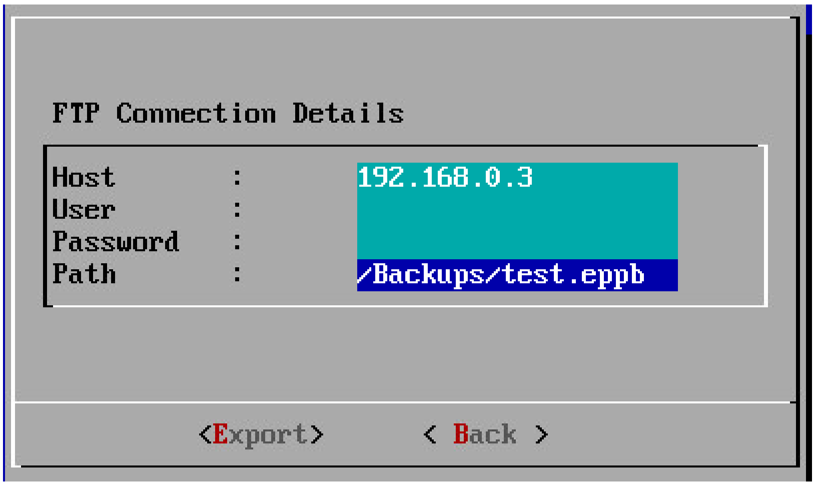
```
Endpoint Protector Appliance - www.EndpointProtector.com

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
                                ↑(-)
                                2  System Backup
                                3  Reboot
                                4  Shutdown
                                5  Exit to Shell

                  <Select>           < Exit >
```

The #2 menu presents the administrator 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
2. **Import** – can be performed if a **.eppb** file has been downloaded and saved on a FTP server
3. **Export** –can be performed in order to save existing backups on an existant 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:



FTP Connection Details

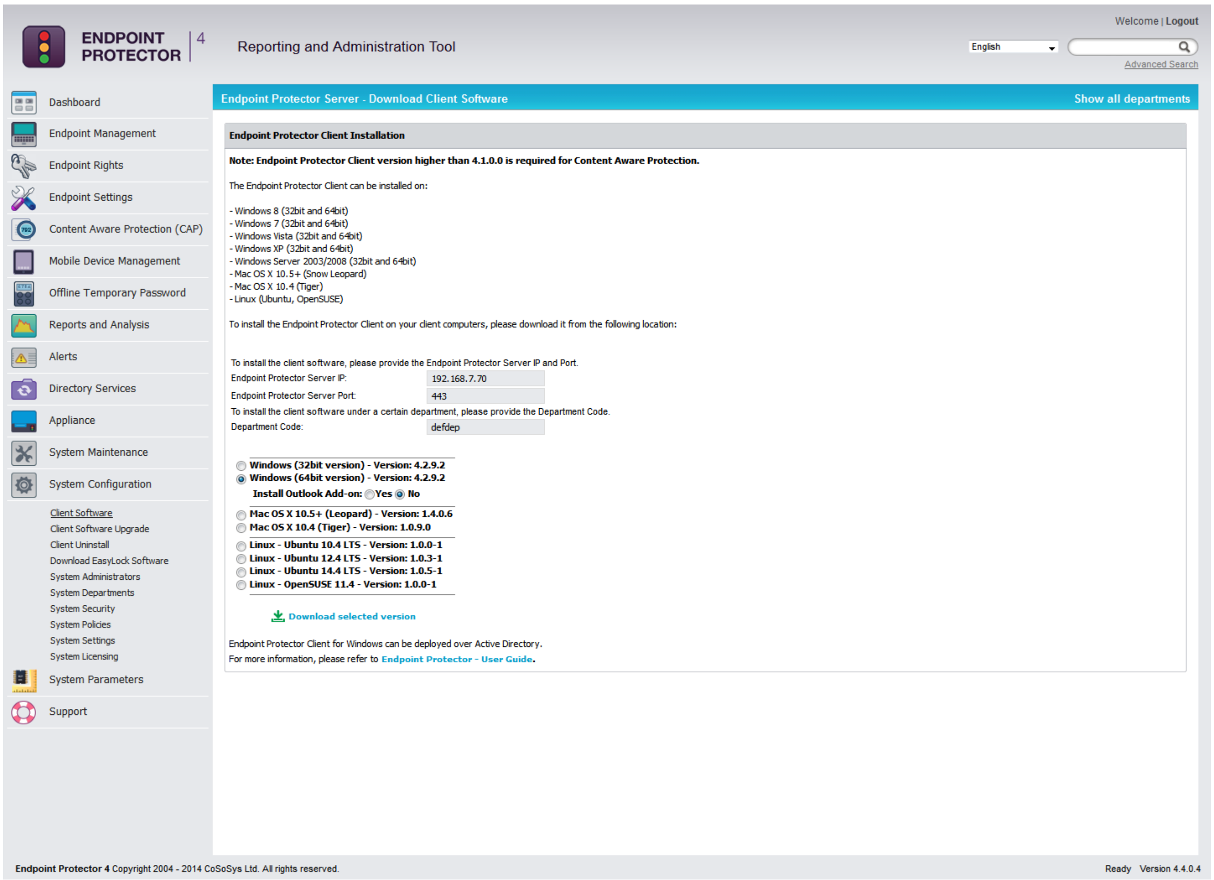
```
Host        :       192.168.0.3
User        :
Password    :
Path        :       /Backups/test.eppb
```

13. System Configuration

This module also contains advanced settings, which influence the functionality and stability of the system.

13.1. Client Software

In this section, the administrator can download and install the Endpoint Protector Client corresponding to the used operating system. Please note that our Server and Client are communicating through port 443.



Endpoint Protector Client Installation

Note: Endpoint Protector Client version higher than 4.1.0.0 is required for Content Aware Protection.

The Endpoint Protector Client can be installed on:

- Windows 8 (32bit and 64bit)
- Windows 7 (32bit and 64bit)
- Windows Vista (32bit and 64bit)
- Windows XP (32bit and 64bit)
- Windows Server 2003/2008 (32bit and 64bit)
- Mac OS X 10.5+ (Snow Leopard)
- Mac OS X 10.4 (Tiger)
- Linux (Ubuntu, OpenSUSE)

To install the Endpoint Protector Client on your client computers, please download it from the following location:

To install the client software, please provide the Endpoint Protector Server IP and Port.

Endpoint Protector Server IP: 192.168.7.70

Endpoint Protector Server Port: 443

To install the client software under a certain department, please provide the Department Code.

Department Code: defdep

○ **Windows (32bit version) - Version: 4.2.9.2**
● **Windows (64bit version) - Version: 4.2.9.2**
Install Outlook Add-on: ○ **Yes** ● **No**
○ **Mac OS X 10.5+ (Leopard) - Version: 1.4.0.6**
○ **Mac OS X 10.4 (Tiger) - Version: 1.0.9.0**
○ **Linux - Ubuntu 10.4 LTS - Version: 1.0.0-1**
○ **Linux - Ubuntu 12.4 LTS - Version: 1.0.3-1**
○ **Linux - Ubuntu 14.4 LTS - Version: 1.0.5-1**
○ **Linux - OpenSUSE 11.4 - Version: 1.0.0-1**

Endpoint Protector Client for Windows can be deployed over Active Directory.

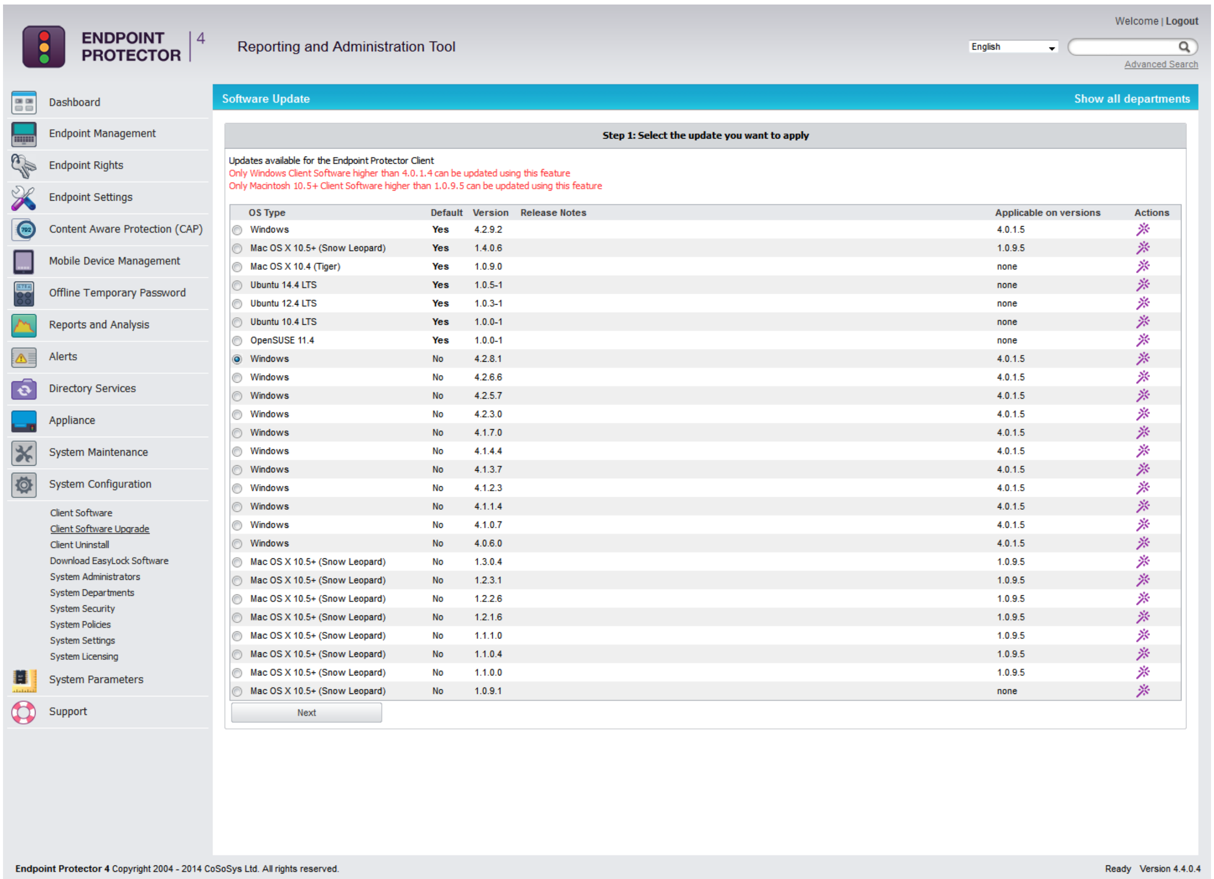
For more information, please refer to **Endpoint Protector - User Guide**.

Note!

The Windows 32-bit and 64-bit client installers both offer the option to download the package with or without a Microsoft Outlook add-on. This option fixes any incompatibility that may arise between Microsoft Outlook and Endpoint Protector.

13.2. Client Software Upgrade

This section allows selecting and performing an automatic update of the installed Endpoint Protector Client version. Starting with Windows Client Version 4.2.3.0 a restart PC is mandatory in case of Client Software Upgrade is performed from Web UI.



Step 1: Select the update you want to apply

Updates available for the Endpoint Protector Client
Only Windows Client Software higher than 4.0.1.4 can be updated using this feature
Only Macintosh 10.5+ Client Software higher than 1.0.9.5 can be updated using this feature

	OS Type	Default	Version	Release Notes	Applicable on versions	Actions
○	Windows	**Yes**	4.2.9.2		4.0.1.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	**Yes**	1.4.0.6		1.0.9.5	✳
○	Mac OS X 10.4 (Tiger)	**Yes**	1.0.9.0		none	✳
○	Ubuntu 14.4 LTS	**Yes**	1.0.5-1		none	✳
○	Ubuntu 12.4 LTS	**Yes**	1.0.3-1		none	✳
○	Ubuntu 10.4 LTS	**Yes**	1.0.0-1		none	✳
○	OpenSUSE 11.4	**Yes**	1.0.0-1		none	✳
●	Windows	No	4.2.8.1		4.0.1.5	✳
○	Windows	No	4.2.6.6		4.0.1.5	✳
○	Windows	No	4.2.5.7		4.0.1.5	✳
○	Windows	No	4.2.3.0		4.0.1.5	✳
○	Windows	No	4.1.7.0		4.0.1.5	✳
○	Windows	No	4.1.4.4		4.0.1.5	✳
○	Windows	No	4.1.3.7		4.0.1.5	✳
○	Windows	No	4.1.2.3		4.0.1.5	✳
○	Windows	No	4.1.1.4		4.0.1.5	✳
○	Windows	No	4.1.0.7		4.0.1.5	✳
○	Windows	No	4.0.6.0		4.0.1.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.3.0.4		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.2.3.1		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.2.2.6		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.2.1.6		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.1.1.0		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.1.0.4		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.1.0.0		1.0.9.5	✳
○	Mac OS X 10.5+ (Snow Leopard)	No	1.0.9.1		none	✳

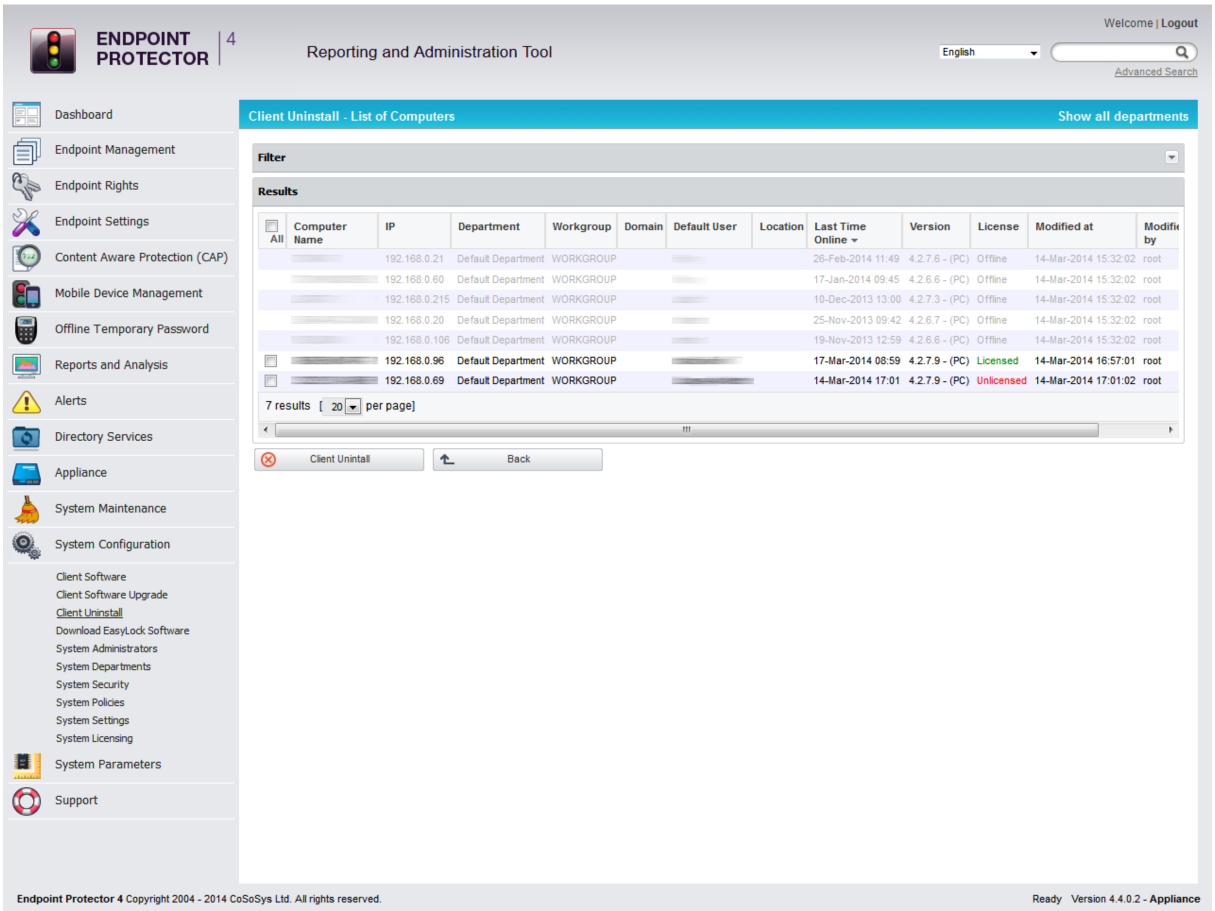
The ✳ button under the Actions column allows setting the default Endpoint Protector Client version that will be available for download under the Client Software section.

Note!

Downgrading from a currently installed Endpoint Protector Client version to an older one cannot be performed automatically.

13.3. Client Uninstall

The EPP Clients installed on the computers can be remotely uninstalled from this tab. 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 greyed out until the action will be performed. The uninstall command can be cancelled if it was not already executed.



□ All	Computer Name	IP	Department	Workgroup	Domain	Default User	Location	Last Time Online ▾	Version	License	Modified at	Modifie by
	[redacted]	192.168.0.21	Default Department	WORKGROUP		[redacted]		26-Feb-2014 11:49	4.2.7.6 - (PC)	Offline	14-Mar-2014 15:32:02	root
	[redacted]	192.168.0.60	Default Department	WORKGROUP		[redacted]		17-Jan-2014 09:45	4.2.6.6 - (PC)	Offline	14-Mar-2014 15:32:02	root
	[redacted]	192.168.0.215	Default Department	WORKGROUP		[redacted]		10-Dec-2013 13:00	4.2.7.3 - (PC)	Offline	14-Mar-2014 15:32:02	root
	[redacted]	192.168.0.20	Default Department	WORKGROUP		[redacted]		25-Nov-2013 09:42	4.2.6.7 - (PC)	Offline	14-Mar-2014 15:32:02	root
	[redacted]	192.168.0.106	Default Department	WORKGROUP		[redacted]		19-Nov-2013 12:59	4.2.6.6 - (PC)	Offline	14-Mar-2014 15:32:02	root
□	[redacted]	192.168.0.96	Default Department	WORKGROUP		[redacted]		17-Mar-2014 08:59	4.2.7.9 - (PC)	Licensed	14-Mar-2014 16:57:01	root
□	[redacted]	192.168.0.69	Default Department	WORKGROUP		[redacted]		14-Mar-2014 17:01	4.2.7.9 - (PC)	Unlicensed	14-Mar-2014 17:01:02	root

7 results [20 per page]

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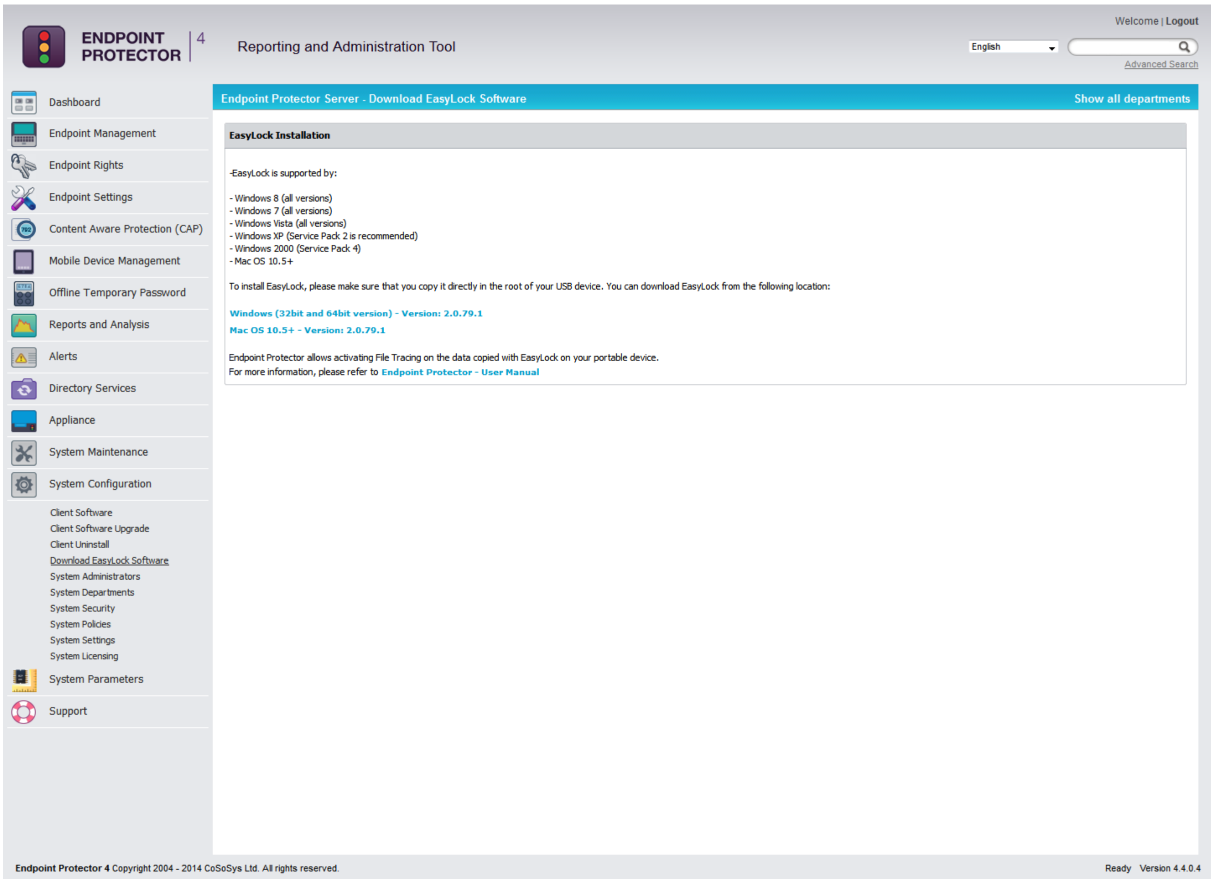
Ready Version 4.4.0.2 - Appliance

Note!

The uninstall command works for Windows client version 4.2.8.1 or newer.

13.4. EasyLock Software Download

The EasyLock software can be downloaded directly from this section and copied to the root folder of the selected USB Drive. It supports computers running on both Windows and Mac OS X 10.5+.



EasyLock Installation

-EasyLock is supported by:

- Windows 8 (all versions)
- Windows 7 (all versions)
- Windows Vista (all versions)
- Windows XP (Service Pack 2 is recommended)
- Windows 2000 (Service Pack 4)
- Mac OS 10.5+

To install EasyLock, please make sure that you copy it directly in the root of your USB device. You can download EasyLock from the following location:

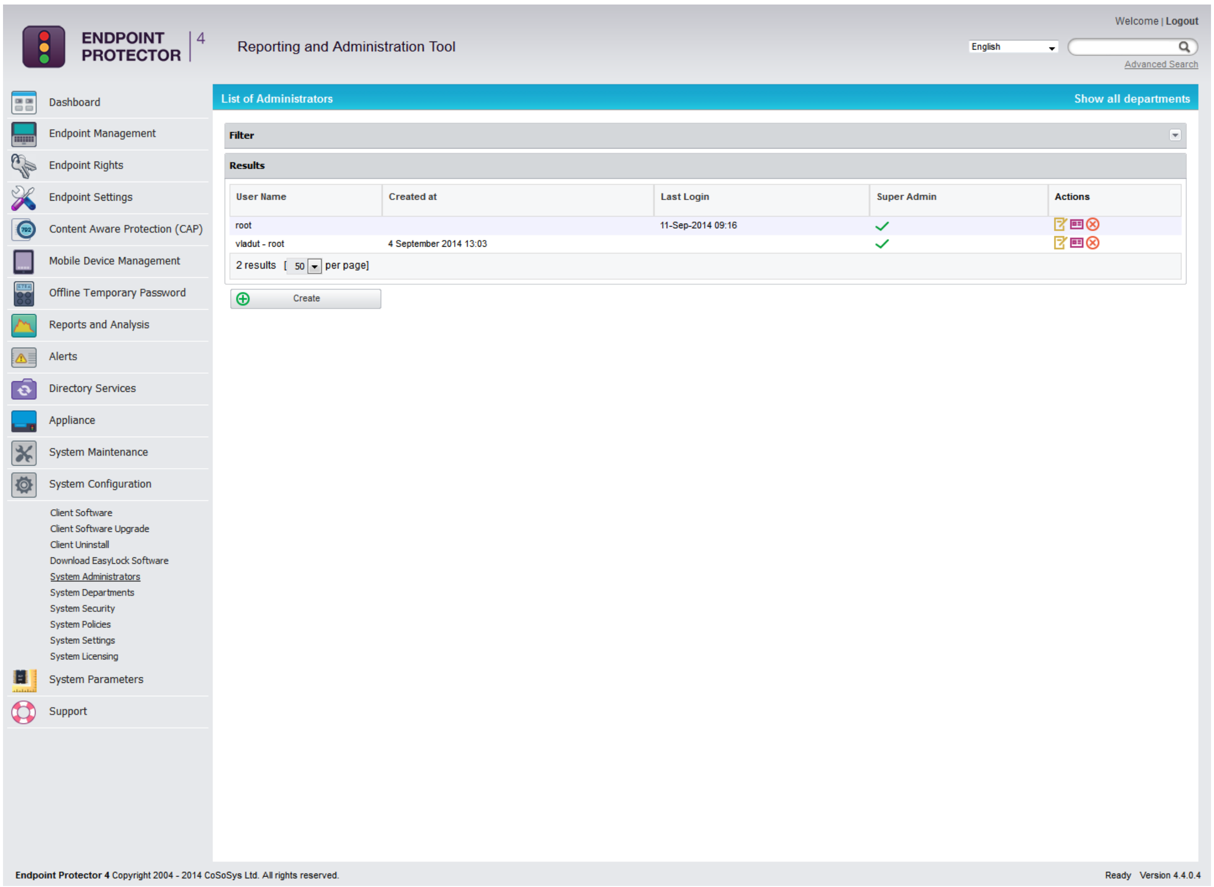
Windows (32bit and 64bit version) - Version: 2.0.79.1

Mac OS 10.5+ - Version: 2.0.79.1

Endpoint Protector allows activating File Tracing on the data copied with EasyLock on your portable device.
For more information, please refer to Endpoint Protector - User Manual

13.5. System Administrators

This list contains all the administrators who have access to the Administration and Reporting Tool. As described earlier in this document, the administrators can be: regular administrators, which have some limitations and super administrators which have full access to the system, including advanced features.



User Name	Created at	Last Login	Super Admin	Actions
root		11-Sep-2014 09:16	✓	
vladut - root	4 September 2014 13:03		✓	

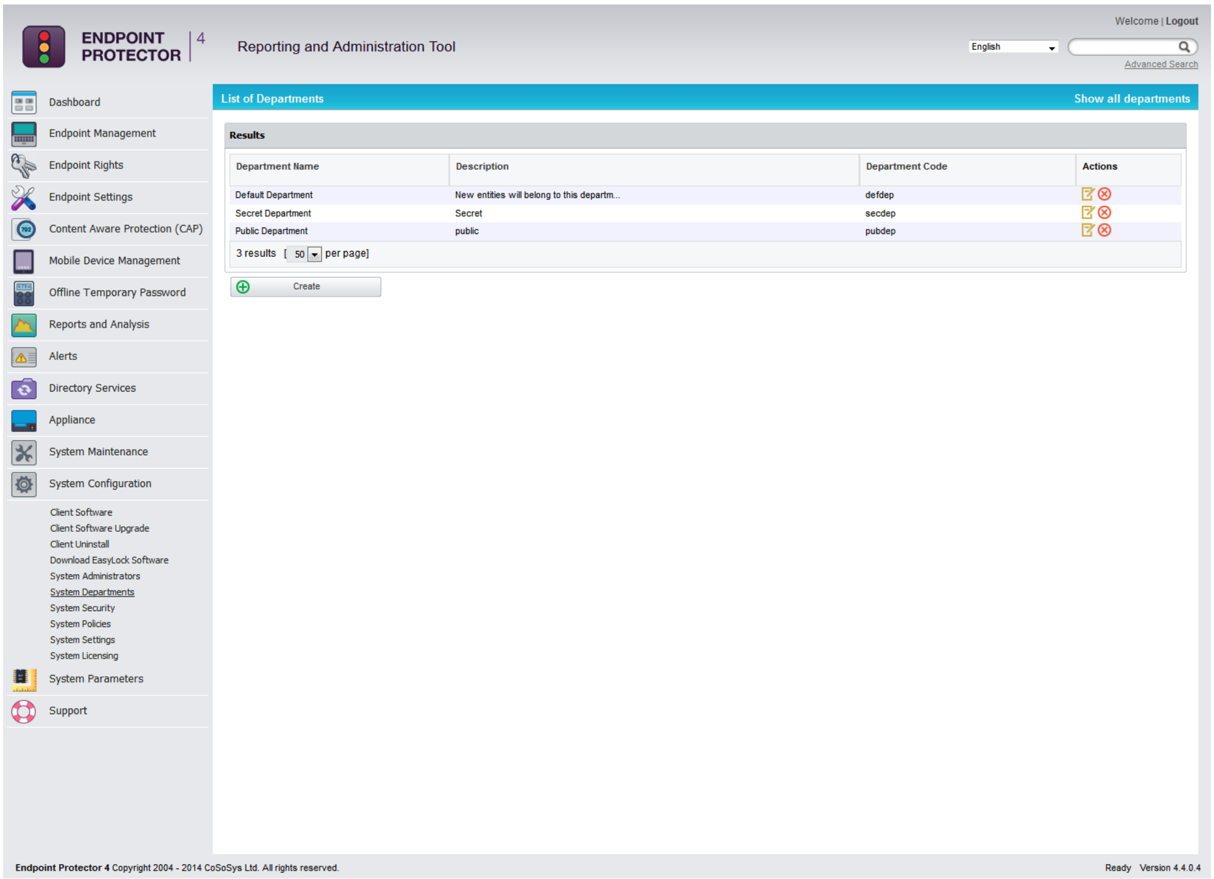
2 results [50 per page]

For more information on administrators, please see paragraph 13.1 “Adding new administrator(s)”.

13.6. System Departments

This module allows creating System Departments. The available options are **Edit** and **Delete**.

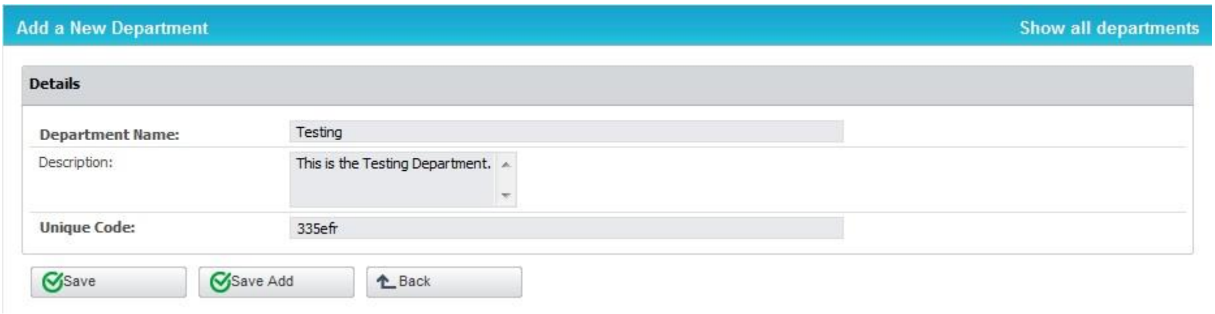
The main reason for using this feature is to target Large Installation where one Super Administrator cannot handle the Endpoint Protector Server configuration and maintenance. Even further, one Regular administrator should only be responsible for his entities.



Department Name	Description	Department Code	Actions
Default Department	New entities will belong to this departm...	defdep	
Secret Department	Secret	secdep	
Public Department	public	pubdep	

3 results [50 per page]

A new department can be defined by using the “Create” button.



Department Name:	Testing
Description:	This is the Testing Department.
Unique Code:	335efr

Even if the term Department is simple, if we want to make a similarity between Endpoint Protector and Active Directory (or any other Director Service software) the equivalent of this term is Organization Unit. Of course Organization Unit is not identical with 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. For more details, please see paragraph "10.1. AD Deployment".

Several aspects regarding departments are detailed below:

1. Each main entity must belong to a department, except with the scenario when the super administrator deletes the Default Department. At computer registration, the Department Code is provided. If a department having the given code is found, then the computer will register and it will belong to that department. All the main entities information received from a computer in department X will also belong to department X.

Example: Computer Test-PC is registered to department "developers". In this case, user Test logged on that computer will be assigned to the same department together with the devices connected on the computer Test-PC.

Note!

In case that, at registration, no department code is provided or a wrong department code is provided, the department code is considered invalid and that computer will be assigned to the default department (defdep).

2. Super Administrators (example root) will still have access to all the main entities regardless of their departments and will be able to change departments. When logged on as Super Administrator, the text "Show all departments" will be displayed on the right top part of the main content layout of the Web interface.

3. As only the Super Administrator has the possibility to create regular users, he is also responsible for assigning regular administrators to handle one or more departments. Regular Administrator will see and manage in the Web interface only the main entities belonging to the assigned departments.

4. From a security stand point of view:

A Regular Administrator should only see his department's entities and nothing more.

A Regular Administrator should only control his department's entities and nothing more.

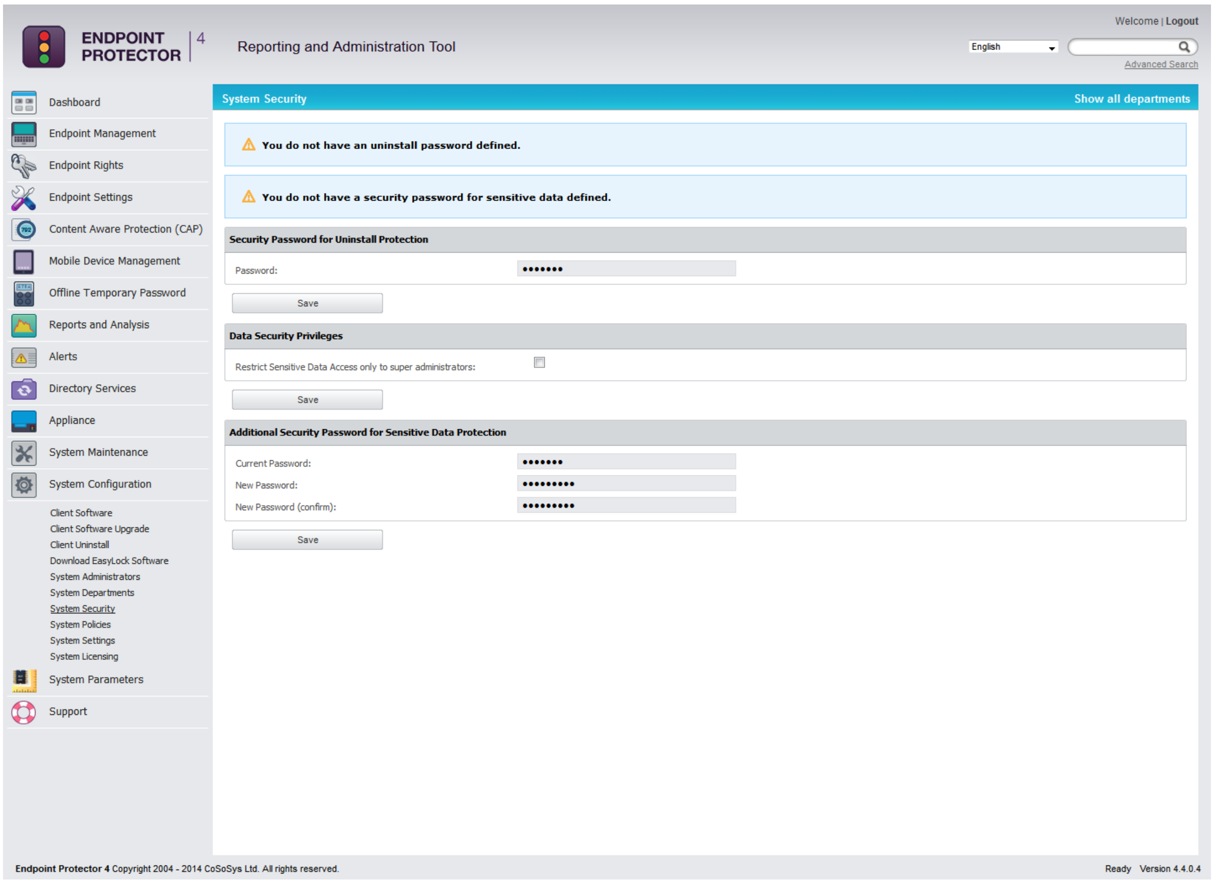
IMPORTANT!

If you do not want to have any departments based organization within the Endpoint Protector deployment, please make sure that you always assign the default Department to all new created Regular Administrators within the Endpoint Protector Web Interface.

13.7. System Security / Client Uninstall Protection

The Client Uninstall Protection feature protects the Endpoint Protector Client from being uninstalled by using a password-based mechanism. The Administrator of the system defines this password from within the Reporting and Administration Tool of Endpoint Protector 4. When somebody tries to uninstall the Endpoint Protector Client, they will be prompted for the password. If they do not know the password, the Client removal cannot continue.

This password can be set by accessing "System Configuration" – "System Security", entering a password in the "Password" field and clicking on "Save".



⚠ You do not have an uninstall password defined.

⚠ You do not have a security password for sensitive data defined.

Security Password for Uninstall Protection

Password: •••••••

Data Security Privileges

Restrict Sensitive Data Access only to super administrators: □

Additional Security Password for Sensitive Data Protection

Current Password: •••••••
New Password: •••••••••
New Password (confirm): •••••••••

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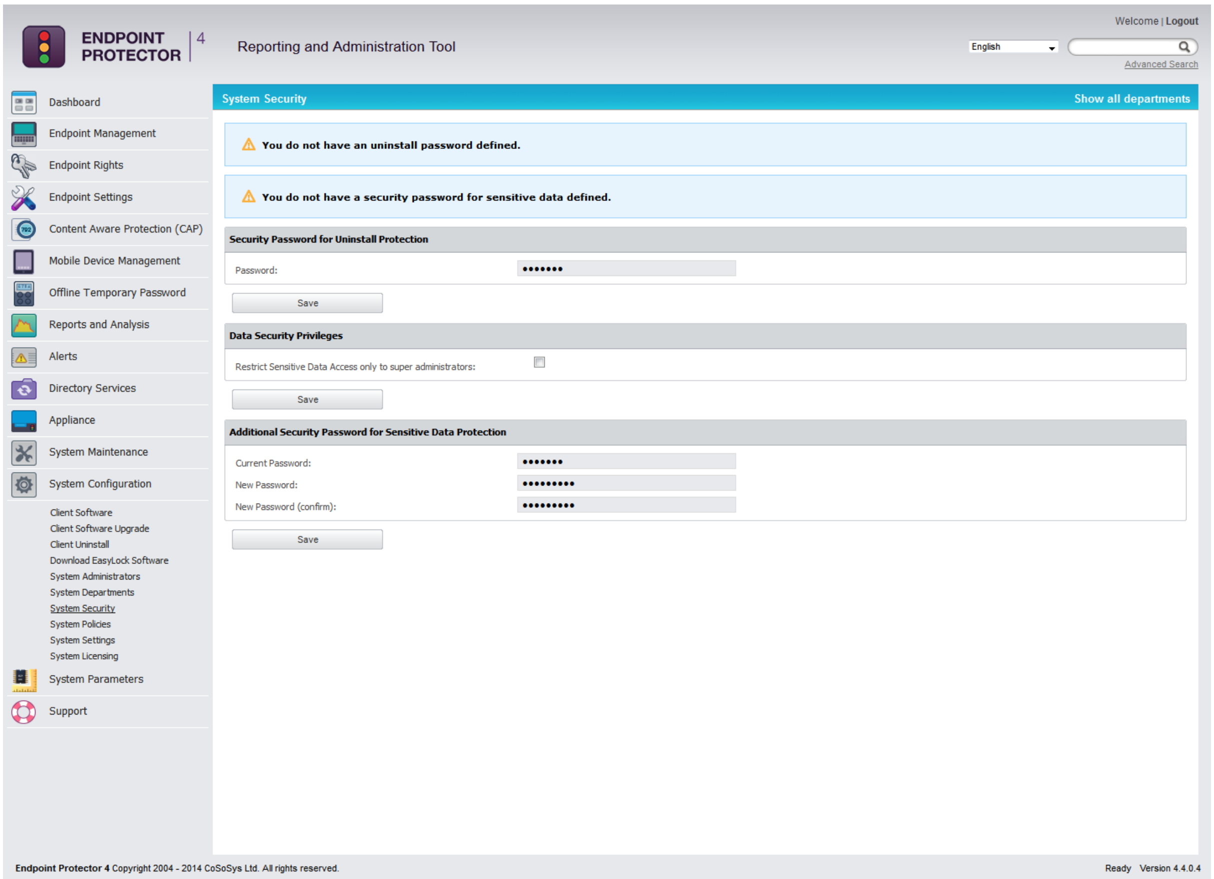
The second option, "**Data Security Privileges**", allows you to restrict Sensitive Data sections access only to Super Administrators. If this option is selected, then only super administrators are able to view the "Reports and Analysis" section. If this option is not selected, then super administrators and also administrators are able to view the "Reports and Analysis" section.

13.8. System Security

This module enables the administrator to set a number of security policies such as: set a client uninstall password, restrict the access to sensitive information to super administrators and set a password protection on that sensitive data.



⚠ You do not have an uninstall password defined.

⚠ You do not have a security password for sensitive data defined.

Security Password for Uninstall Protection

Password: •••••••

Data Security Privileges

Restrict Sensitive Data Access only to super administrators: □

Additional Security Password for Sensitive Data Protection

Current Password: •••••••
New Password: •••••••••
New Password (confirm): •••••••••

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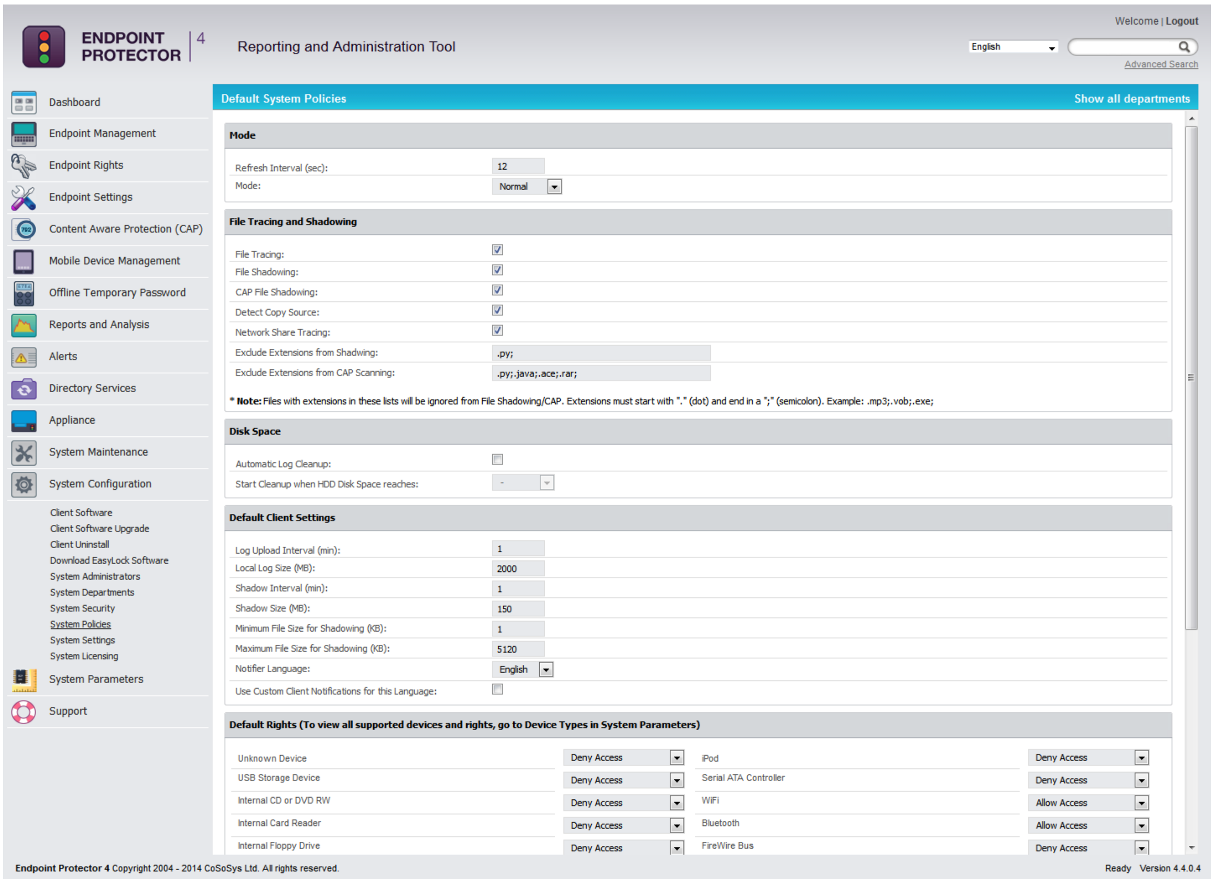
13.9. System Policies

This module provides a useful shortcut to default server and device rights settings. By accessing this module you can quickly and easily configure the Endpoint Protector 4 Server settings such as Log Upload Interval (in minutes), Local Shadow Size (in MB), Local Log Size (in KB), etc. and default device group behavior, for each device type, separately. There is also an option to manage the server's disk space. The Administrator can enable a functionality called "Automatic Log Cleanup". Once enabled by click System Policies -> Automatic Disk Cleanup, the server will start to overwrite old logs when it reaches a predefined percent value. By doing this, the server will never reach a hard drive space limit.



Default System Policies

Mode

Refresh Interval (sec):	12
Mode:	Normal

File Tracing and Shadowing

File Tracing:	☑
File Shadowing:	☑
CAP File Shadowing:	☑
Detect Copy Source:	☑
Network Share Tracing:	☑
Exclude Extensions from Shadwing:	.py;
Exclude Extensions from CAP Scanning:	.py;.java;.ace;.rar;

* **Note:** Files with extensions in these lists will be ignored from File Shadowing/CAP. Extensions must start with "." (dot) and end in a ";" (semicolon). Example: .mp3;.vob;.exe;

Disk Space

Automatic Log Cleanup:	□
Start Cleanup when HDD Disk Space reaches:	-

Default Client Settings

Log Upload Interval (min):	1
Local Log Size (MB):	2000
Shadow Interval (min):	1
Shadow Size (MB):	150
Minimum File Size for Shadowing (KB):	1
Maximum File Size for Shadowing (KB):	5120
Notifier Language:	English
Use Custom Client Notifications for this Language:	□

Default Rights (To view all supported devices and rights, go to Device Types in System Parameters)

Unknown Device	Deny Access	iPod	Deny Access
USB Storage Device	Deny Access	Serial ATA Controller	Deny Access
Internal CD or DVD RW	Deny Access	WiFi	Allow Access
Internal Card Reader	Deny Access	Bluetooth	Allow Access
Internal Floppy Drive	Deny Access	FireWire Bus	Deny Access

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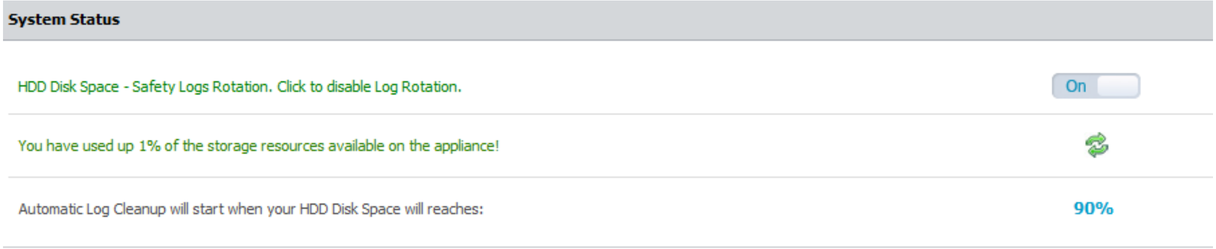
To store your setup, simply click “Save”.

Note!

The “Automatic Log Cleanup” option can also be activated from the Dashboard -> System Status



System Status

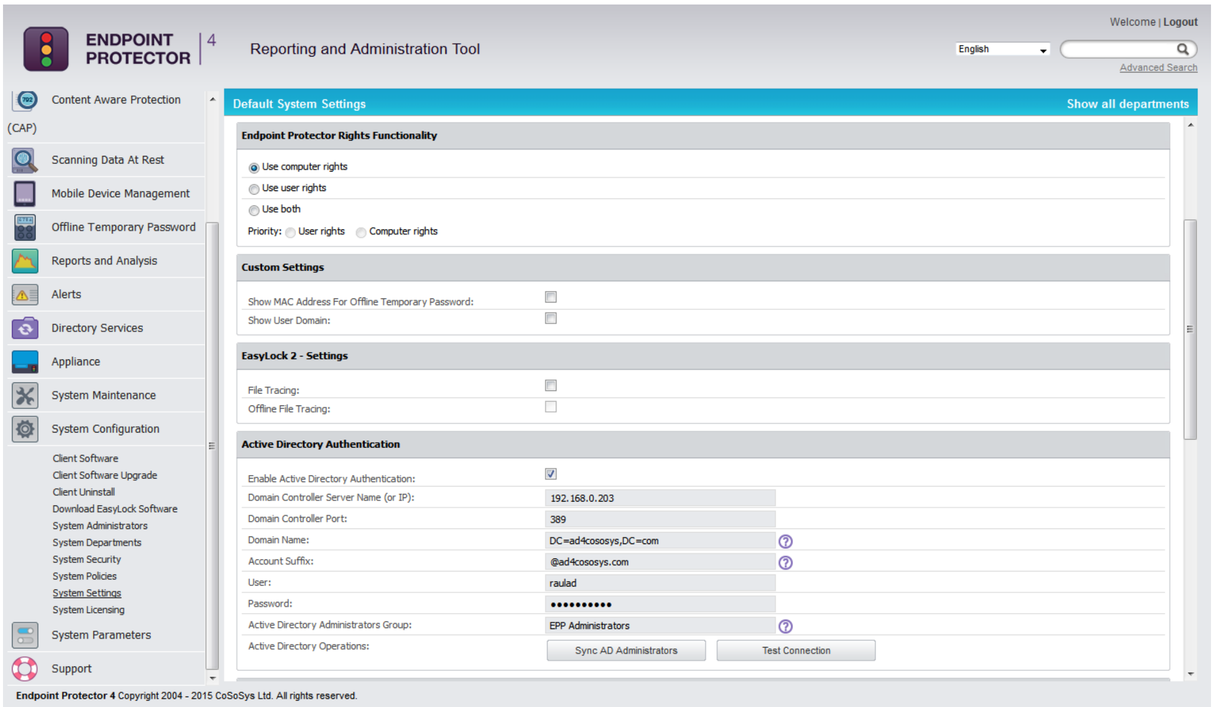
HDD Disk Space - Safety Logs Rotation. Click to disable Log Rotation.	On
You have used up 1% of the storage resources available on the appliance!	
Automatic Log Cleanup will start when your HDD Disk Space will reaches:	90%

13.10. System Settings

13.10.1. Rights Functionality

In the System Settings module, you can modify Endpoint Protector 4 Server Rights functionalities by giving priority to either User Rights or Computer Rights.

Scroll down to the **Setting up policies** chapter of this document for more information on the subject.



Endpoint Protector Rights Functionality

● Use computer rights
○ Use user rights
○ Use both
Priority: ○ User rights ○ Computer rights

Custom Settings

Show MAC Address For Offline Temporary Password: □
Show User Domain: □

EasyLock 2 - Settings

File Tracing: □
Offline File Tracing: □

Active Directory Authentication

Enable Active Directory Authentication: ☑
Domain Controller Server Name (or IP): 192.168.0.203
Domain Controller Port: 389
Domain Name: DC=ad4cososys,DC=com
Account Suffix: @ad4cososys.com
User: raulad
Password: ••••••••••
Active Directory Administrators Group: EPP Administrators
Active Directory Operations: Sync AD Administrators | Test Connection

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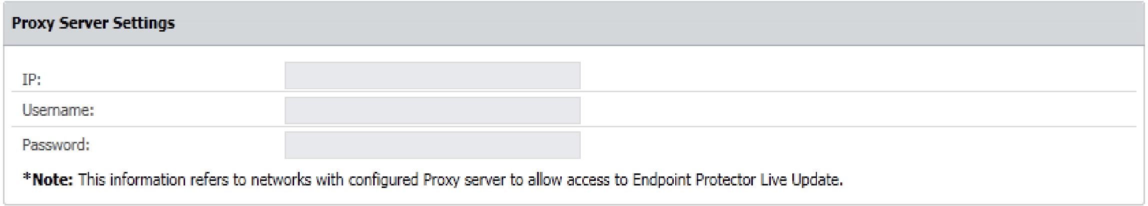
13.10.2. Proxy Settings

Endpoint Protector offers configuration options for a proxy, as seen below:



Proxy Server Settings

IP:
Username:
Password:

***Note:** This information refers to networks with configured Proxy server to allow access to Endpoint Protector Live Update.

The necessary configuration details are:

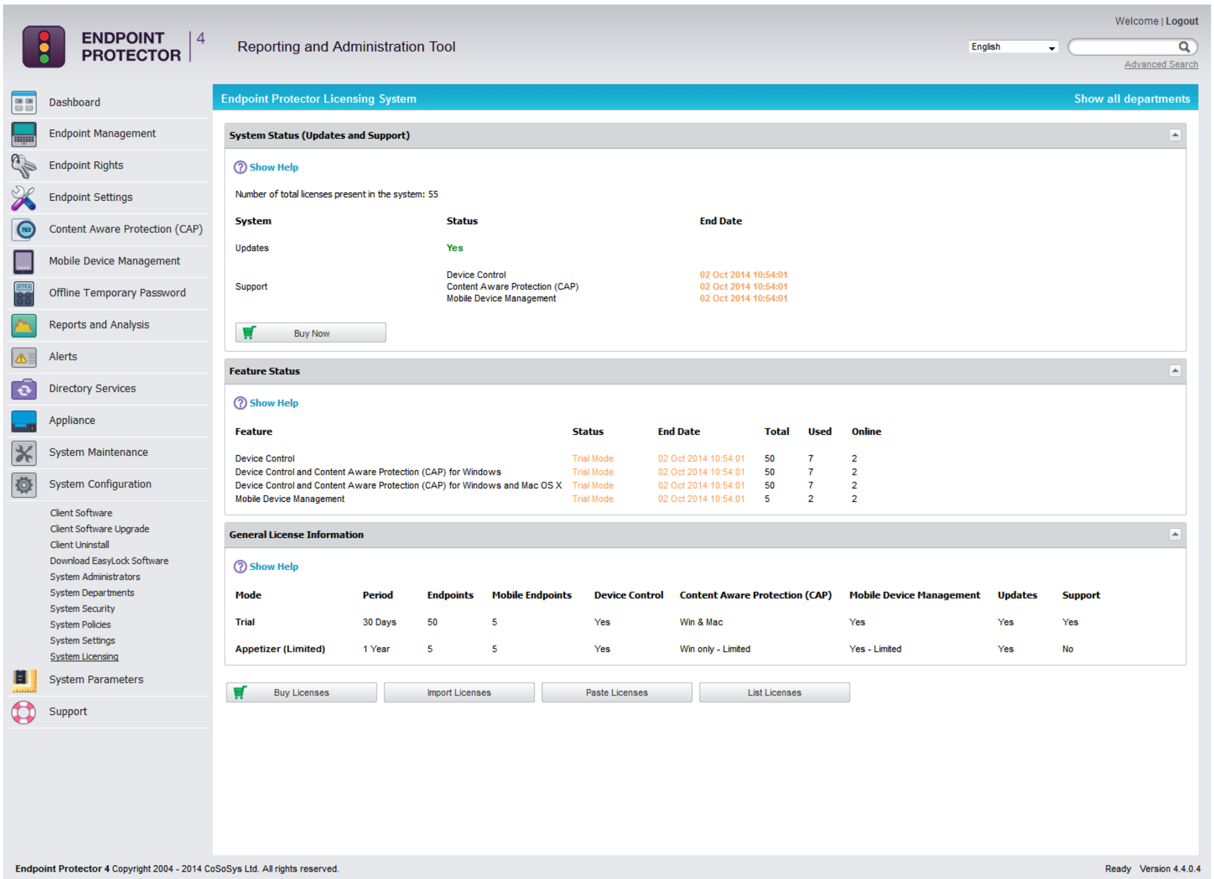
- IP – the Proxy Server IP
- Username/Password – Proxy access credentials (not mandatory)

Attention!

If these details are not filled in, Endpoint Protector will connect directly to liveupdate.endpointprotector.com. Data sent to this server is not security sensitive, being limited only to your version/language.

13.11. System Licensing

This module allows the administrator to manage the licensing of Endpoint Protector and offers a complete overview of the current licenses status.



Endpoint Protector Licensing System

System Status (Updates and Support)

Number of total licenses present in the system: 55

System	Status	End Date
Updates	Yes	
Support	Device Control Content Aware Protection (CAP) Mobile Device Management	02 Oct 2014 10:54:01 02 Oct 2014 10:54:01 02 Oct 2014 10:54:01

Feature Status

Feature	Status	End Date	Total	Used	Online
Device Control	Trial Mode	02 Oct 2014 10:54:01	50	7	2
Device Control and Content Aware Protection (CAP) for Windows	Trial Mode	02 Oct 2014 10:54:01	50	7	2
Device Control and Content Aware Protection (CAP) for Windows and Mac OS X	Trial Mode	02 Oct 2014 10:54:01	50	7	2
Mobile Device Management	Trial Mode	02 Oct 2014 10:54:01	5	2	2

General License Information

Mode	Period	Endpoints	Mobile Endpoints	Device Control	Content Aware Protection (CAP)	Mobile Device Management	Updates	Support
Trial	30 Days	50	5	Yes	Win & Mac	Yes	Yes	Yes
Appetizer (Limited)	1 Year	5	5	Yes	Win only - Limited	Yes - Limited	Yes	No

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The Endpoint Protector licensing system comprises three types of licenses: Endpoint licenses for Mobile and Fixed endpoints, Feature licenses and Updates & Support licenses.

Endpoint licenses are used for registering the Endpoint Protector Client, enabling the communication with the Endpoint Protector Server. They are available as either 30 days Trial licenses or perpetual (permanent) licenses. Once registered with a valid Endpoint license, the Endpoint Protector Client remains active for an unlimited period of time regardless of the status of the other license types.

Feature licenses are used for activating one of the three Endpoint Protector modules: Device Control, Content Aware Protection, respectively Mobile Device Management. Each of these modules can be used in Trial Mode for a period of up to 30 days. Then, a perpetual (permanent) license is required to be purchased and imported for the feature to remain active. Although the Device Control module appears by default as active in the Web Administration Interface, a license is required to enable the communication between Server and Client. The Content Aware Protection and Mobile Device Management features are displayed as blocked by default and require an additional Activation request to be performed by the administrator. The Features Status section offers an overview of the current features licensing status.

Updates & Support licenses are optional licenses that once purchased and imported into the system allow access to the latest Updates available for both Client and Server side and enable premium Support and Technical Assistance. The Updates and Support licenses can be purchased for a period varying from 1 month up to 36 months, with a separate option for 120 months. As opposed to Endpoint and Feature licenses, Updates & Support licenses are not permanent and they require periodic renewal for being able to get access to our Live Update Server.

Note!

When first activating one or more features, an Updates & Support license for a period of minimum 1 year is required. After the Updates & Support license expires, the feature remains active and purchasing additional Updates & Support licenses becomes optional.

For example, if you wish to license Endpoint Protector for 100 workstations and use the Content Aware Protection module for 1 year, you will require:

- 100 Endpoint licenses
- 1 Content Aware Protection license, which includes an Updates & Support license for Device Control and Content Aware Protection valid for 1 year. After the validity period expires, the feature remains active, while any updates and support services are not available anymore.

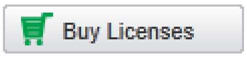
If you wish to manage also a fleet of 10 devices for 6 months, you will additionally require:

- 10 Mobile Endpoint licenses
- 1 Mobile Device Management license, which includes an Updates & Support license for Mobile Device Management for 6 months

Note!

As opposed to Device Control and Content Aware Protection, a valid Updates & Support license for Mobile Device Management is required for the feature to remain active as the Mobile Device Management service requires a working connection to our Cloud.

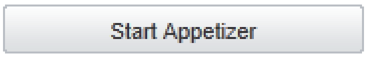
All license types can be purchased directly by using the “Buy Licenses” option.



A separate free licensing option, called **Appetizer Mode**, is available for small networks of up to 5 computers and / or 5 iOS and Android devices. Appetizer licenses enable access to each of the three Endpoint Protector modules for a period of 1 year.

13.11.1. Appetizer Mode

The Appetizer Mode can be activated by pushing the “Start Appetizer” button, which will automatically assign 1 year Device Control and Content Aware Protection licenses for up 5 computers. Additionally, it will enable a 1 year subscription for Mobile Device Management by Endpoint Protector for up to 5 iOS and Android smartphones and tablets.



The Appetizer license is a limited license valid for 1 year with automatic renewal, which includes also 1 year of updates with automatic renewal. The following limitations apply:

- **No Support Included!**
- **Device Control**: no limitations
- **Content Aware Protection**: The options for E-mail, Web Browsers and Cloud Services/File Sharing, Clipboard Monitor and Print Screen Monitor are disabled. Mac OS X compatibility is also disabled.
- **Mobile Device Management**: mobile device tracking is disabled.

Note!

License terms may change without prior notice.

Several Requirements are necessary for using Appetizer Licenses:

- Licensee has to be small business or registered professional (e.g. a company such as a Ltd. or a registered professional such as a law firm or architectural association).
- Valid company e-mail address
- Online activation of virtual appliance after setup in your network

- Online self-enrollment of MDM services (e.g. for Apple Push Notification Certificate)

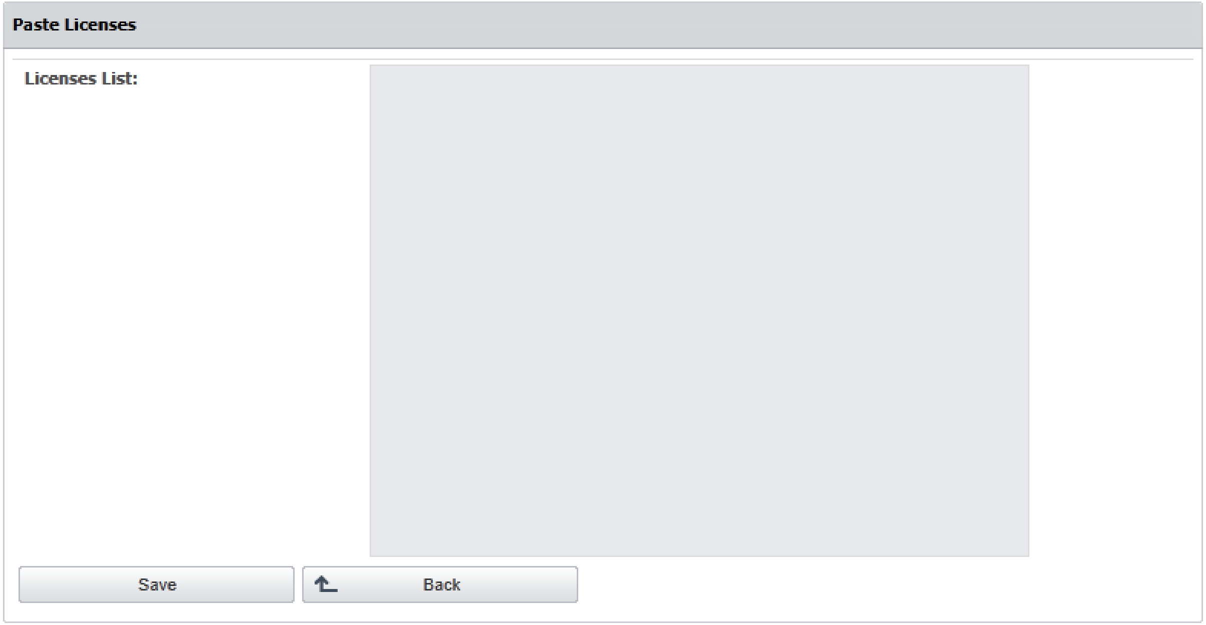
13.11.2. Trial Mode

The trial period can be activated by pushing the "Start Free Trial" button, which will automatically assign 30 days trial licenses for up to 50 computers.

The trial licenses are assigned on a "first-in-first-served" basis. In case that one or more computers with assigned trial licenses are inactive for a certain interval of time, the administrator can manually release those licenses, which will automatically be reassigned to other online computers.

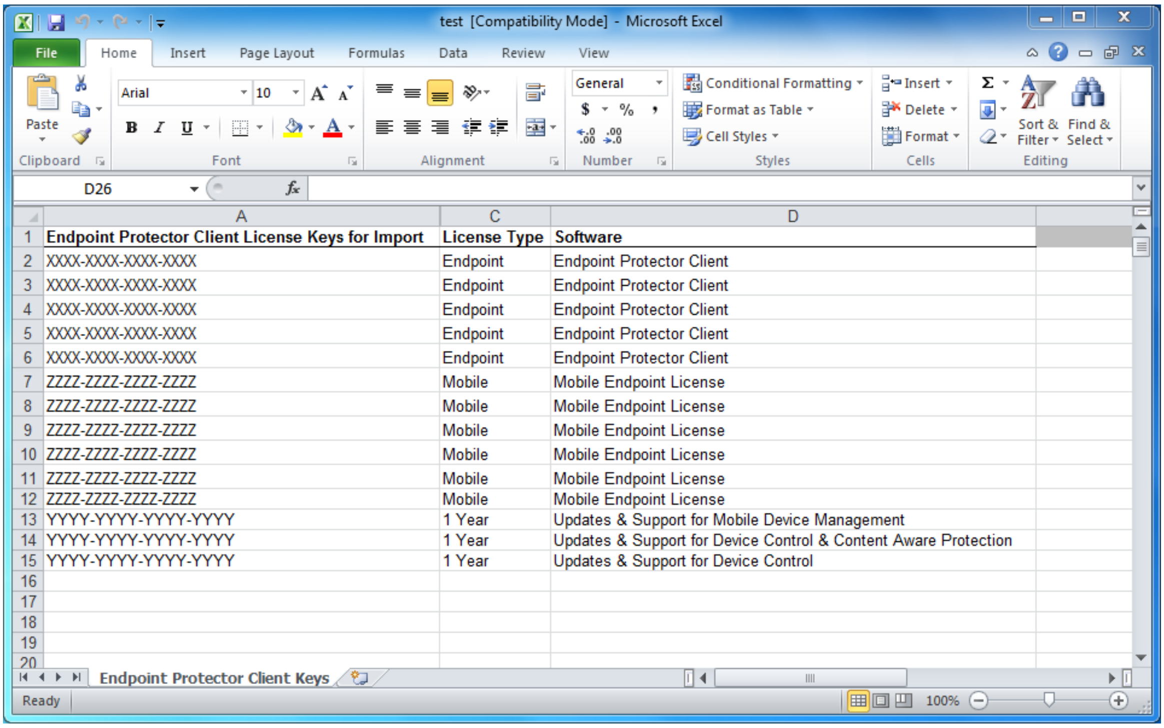
13.11.3. Import Licenses

The Import Licenses option gives you the possibility to browse for an Excel file that contains licenses. After you have selected the file, click Upload.



Attention!

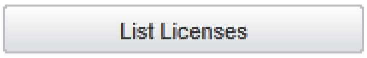
The Excel document has to be formatted in a specific way. Only the first column in the excel sheet is taken into consideration and the first line in the excel sheet is ignored.

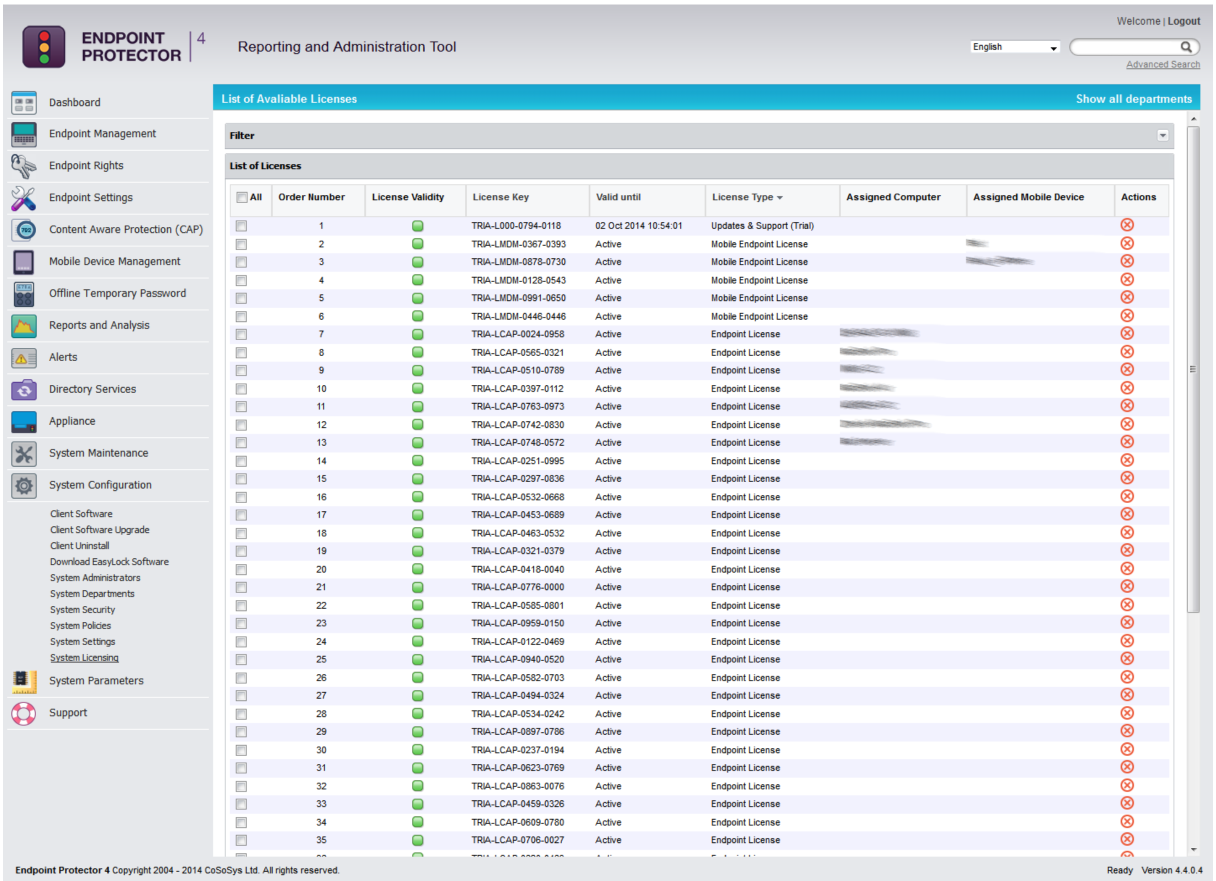


	A	C	D
1	Endpoint Protector Client License Keys for Import	License Type	Software
2	XXXX-XXXX-XXXX-XXXX	Endpoint	Endpoint Protector Client
3	XXXX-XXXX-XXXX-XXXX	Endpoint	Endpoint Protector Client
4	XXXX-XXXX-XXXX-XXXX	Endpoint	Endpoint Protector Client
5	XXXX-XXXX-XXXX-XXXX	Endpoint	Endpoint Protector Client
6	XXXX-XXXX-XXXX-XXXX	Endpoint	Endpoint Protector Client
7	ZZZZ-ZZZZ-ZZZZ-ZZZZ	Mobile	Mobile Endpoint License
8	ZZZZ-ZZZZ-ZZZZ-ZZZZ	Mobile	Mobile Endpoint License
9	ZZZZ-ZZZZ-ZZZZ-ZZZZ	Mobile	Mobile Endpoint License
10	ZZZZ-ZZZZ-ZZZZ-ZZZZ	Mobile	Mobile Endpoint License
11	ZZZZ-ZZZZ-ZZZZ-ZZZZ	Mobile	Mobile Endpoint License
12	ZZZZ-ZZZZ-ZZZZ-ZZZZ	Mobile	Mobile Endpoint License
13	YYYY-YYYY-YYYY-YYYY	1 Year	Updates & Support for Mobile Device Management
14	YYYY-YYYY-YYYY-YYYY	1 Year	Updates & Support for Device Control & Content Aware Protection
15	YYYY-YYYY-YYYY-YYYY	1 Year	Updates & Support for Device Control
16			
17			
18			
19			
20			

Licenses can be imported also by using the “Paste Licenses” option, which allows to manually copy&paste licenses into the system. This option is recommended for online purchases, when licenses are delivered directly in your e-mail.

The List Licenses button displays the list of imported license keys, including the computers to which they were asisgned and the validity period.





List of Avaliable Licenses

List of Licenses

□ All	Order Number	License Validity	License Key	Valid until	License Type	Assigned Computer	Assigned Mobile Device	Actions
□	1	🟩	TRIA-L000-0794-0118	02 Oct 2014 10:54:01	Updates & Support (Trial)			⊗
□	2	🟩	TRIA-LMDM-0367-0393	Active	Mobile Endpoint License		[redacted]	⊗
□	3	🟩	TRIA-LMDM-0878-0730	Active	Mobile Endpoint License		[redacted]	⊗
□	4	🟩	TRIA-LMDM-0128-0543	Active	Mobile Endpoint License			⊗
□	5	🟩	TRIA-LMDM-0991-0650	Active	Mobile Endpoint License			⊗
□	6	🟩	TRIA-LMDM-0446-0446	Active	Mobile Endpoint License			⊗
□	7	🟩	TRIA-LCAP-0024-0958	Active	Endpoint License	[redacted]		⊗
□	8	🟩	TRIA-LCAP-0565-0321	Active	Endpoint License	[redacted]		⊗
□	9	🟩	TRIA-LCAP-0510-0789	Active	Endpoint License	[redacted]		⊗
□	10	🟩	TRIA-LCAP-0397-0112	Active	Endpoint License	[redacted]		⊗
□	11	🟩	TRIA-LCAP-0763-0973	Active	Endpoint License	[redacted]		⊗
□	12	🟩	TRIA-LCAP-0742-0830	Active	Endpoint License	[redacted]		⊗
□	13	🟩	TRIA-LCAP-0748-0572	Active	Endpoint License	[redacted]		⊗
□	14	🟩	TRIA-LCAP-0251-0995	Active	Endpoint License			⊗
□	15	🟩	TRIA-LCAP-0297-0836	Active	Endpoint License			⊗
□	16	🟩	TRIA-LCAP-0532-0668	Active	Endpoint License			⊗
□	17	🟩	TRIA-LCAP-0453-0689	Active	Endpoint License			⊗
□	18	🟩	TRIA-LCAP-0463-0532	Active	Endpoint License			⊗
□	19	🟩	TRIA-LCAP-0321-0379	Active	Endpoint License			⊗
□	20	🟩	TRIA-LCAP-0418-0040	Active	Endpoint License			⊗
□	21	🟩	TRIA-LCAP-0776-0000	Active	Endpoint License			⊗
□	22	🟩	TRIA-LCAP-0585-0801	Active	Endpoint License			⊗
□	23	🟩	TRIA-LCAP-0959-0150	Active	Endpoint License			⊗
□	24	🟩	TRIA-LCAP-0122-0469	Active	Endpoint License			⊗
□	25	🟩	TRIA-LCAP-0940-0520	Active	Endpoint License			⊗
□	26	🟩	TRIA-LCAP-0582-0703	Active	Endpoint License			⊗
□	27	🟩	TRIA-LCAP-0494-0324	Active	Endpoint License			⊗
□	28	🟩	TRIA-LCAP-0534-0242	Active	Endpoint License			⊗
□	29	🟩	TRIA-LCAP-0897-0786	Active	Endpoint License			⊗
□	30	🟩	TRIA-LCAP-0237-0194	Active	Endpoint License			⊗
□	31	🟩	TRIA-LCAP-0623-0769	Active	Endpoint License			⊗
□	32	🟩	TRIA-LCAP-0863-0076	Active	Endpoint License			⊗
□	33	🟩	TRIA-LCAP-0459-0326	Active	Endpoint License			⊗
□	34	🟩	TRIA-LCAP-0609-0780	Active	Endpoint License			⊗
□	35	🟩	TRIA-LCAP-0706-0027	Active	Endpoint License			⊗

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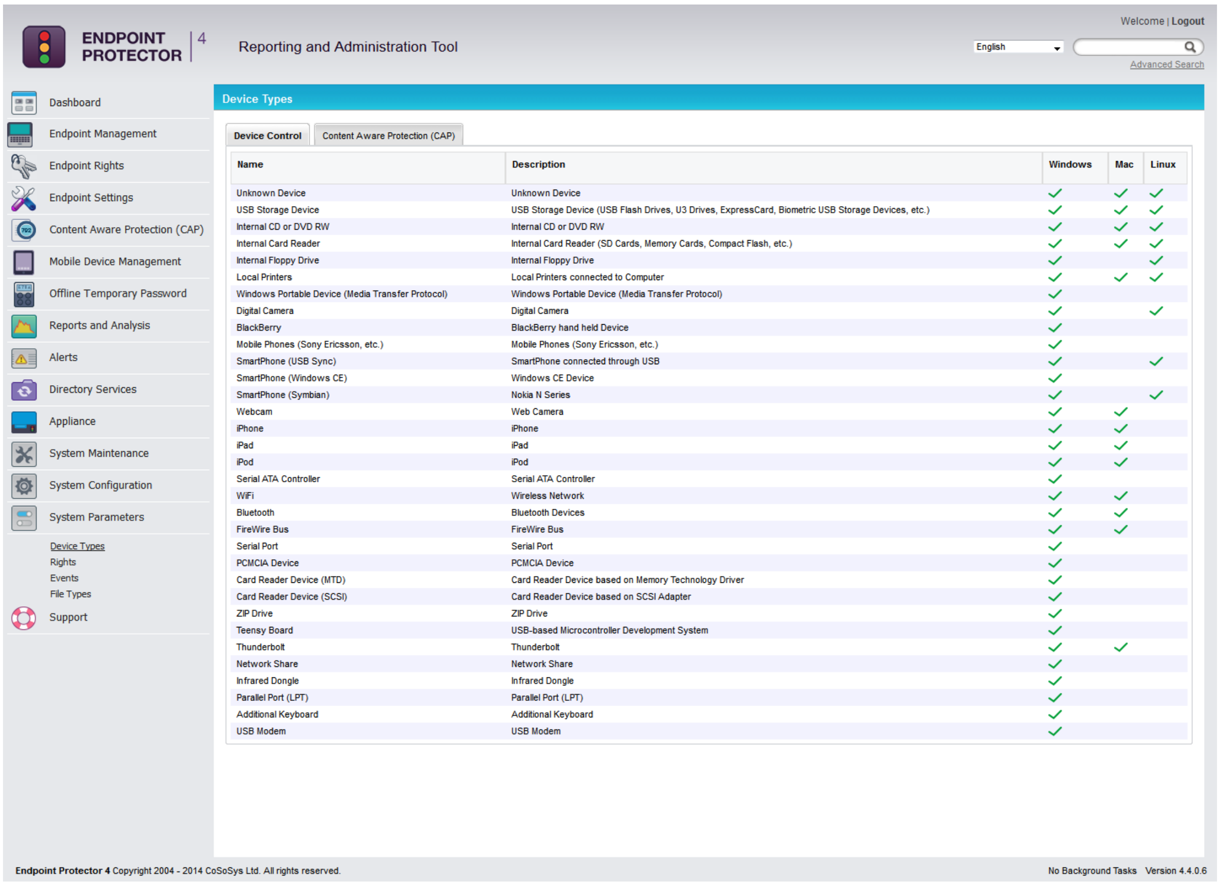
Ready Version 4.4.0.4

14. System Parameters

This module of Endpoint Protector is designed for super administrators. The advanced settings available here determine the functionality of the entire system. Introducing wrong or new values can limit the functionality and performance of the entire system.

14.1. Device Types

Here is a list of all device types currently supported through Device Control by Endpoint Protector, along with a short description for all of the items.



Name	Description	Windows	Mac	Linux
Unknown Device	Unknown Device	✓	✓	✓
USB Storage Device	USB Storage Device (USB Flash Drives, U3 Drives, ExpressCard, Biometric USB Storage Devices, etc.)	✓	✓	✓
Internal CD or DVD RW	Internal CD or DVD RW	✓	✓	✓
Internal Card Reader	Internal Card Reader (SD Cards, Memory Cards, Compact Flash, etc.)	✓	✓	✓
Internal Floppy Drive	Internal Floppy Drive	✓		✓
Local Printers	Local Printers connected to Computer	✓	✓	✓
Windows Portable Device (Media Transfer Protocol)	Windows Portable Device (Media Transfer Protocol)	✓		
Digital Camera	Digital Camera	✓		✓
BlackBerry	BlackBerry hand held Device	✓		
Mobile Phones (Sony Ericsson, etc.)	Mobile Phones (Sony Ericsson, etc.)	✓		
SmartPhone (USB Sync)	SmartPhone connected through USB	✓		✓
SmartPhone (Windows CE)	Windows CE Device	✓		
SmartPhone (Symbian)	Nokia N Series	✓		✓
Webcam	Web Camera	✓	✓	
iPhone	iPhone	✓	✓	
iPad	iPad	✓	✓	
iPod	iPod	✓	✓	
Serial ATA Controller	Serial ATA Controller	✓		
WiFi	Wireless Network	✓	✓	
Bluetooth	Bluetooth Devices	✓	✓	
FireWire Bus	FireWire Bus	✓	✓	
Serial Port	Serial Port	✓		
PCMCIA Device	PCMCIA Device	✓		
Card Reader Device (MTD)	Card Reader Device based on Memory Technology Driver	✓		
Card Reader Device (SCSI)	Card Reader Device based on SCSI Adapter	✓		
ZIP Drive	ZIP Drive	✓		
Teensy Board	USB-based Microcontroller Development System	✓		
Thunderbolt	Thunderbolt	✓	✓	
Network Share	Network Share	✓		
Infrared Dongle	Infrared Dongle	✓		
Parallel Port (LPT)	Parallel Port (LPT)	✓		
Additional Keyboard	Additional Keyboard	✓		
USB Modem	USB Modem	✓		

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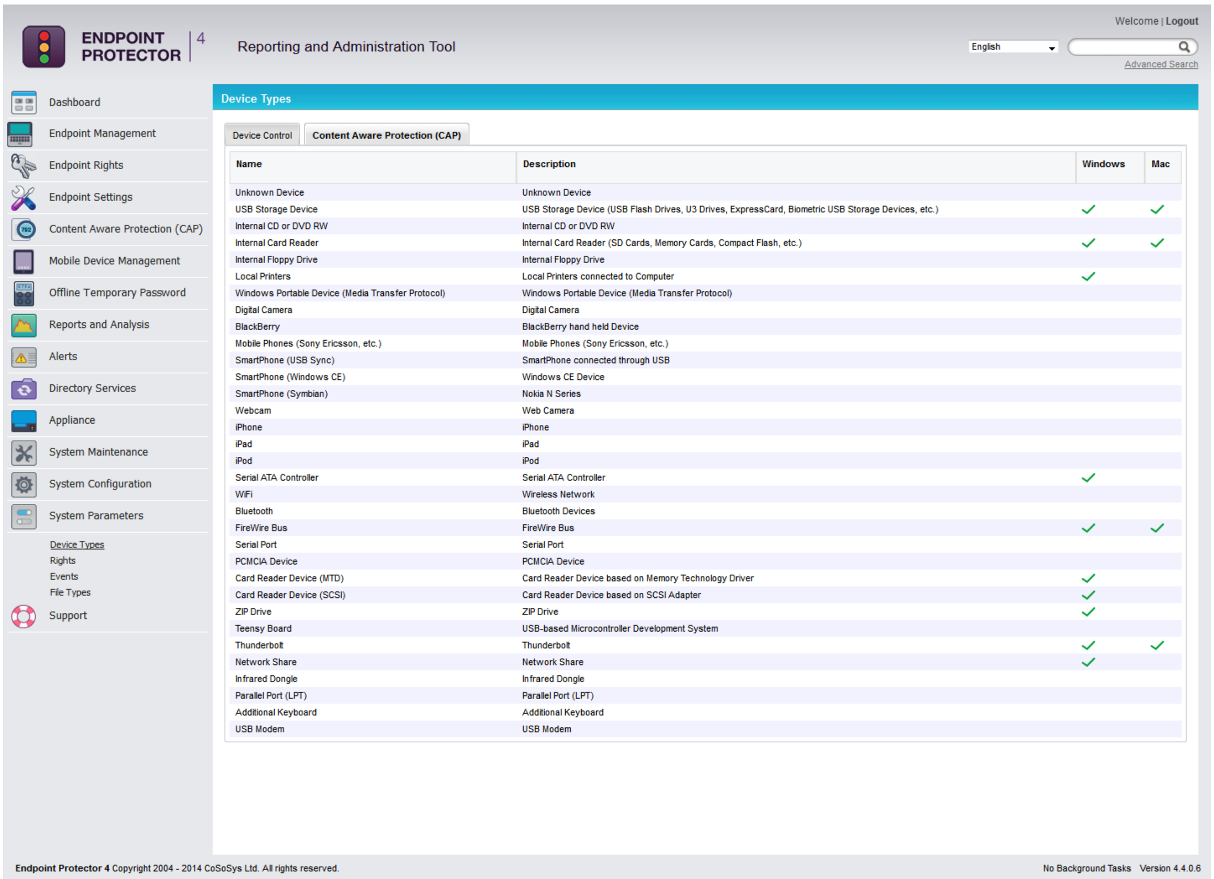
No Background Tasks Version 4.4.0.6

Here is a list of all device types currently supported through Content Aware Protections' option for Controlled Storage Device Types, along with a short description for all of the items.



Name	Description	Windows	Mac
Unknown Device	Unknown Device		
USB Storage Device	USB Storage Device (USB Flash Drives, U3 Drives, ExpressCard, Biometric USB Storage Devices, etc.)	✓	✓
Internal CD or DVD RW	Internal CD or DVD RW		
Internal Card Reader	Internal Card Reader (SD Cards, Memory Cards, Compact Flash, etc.)	✓	✓
Internal Floppy Drive	Internal Floppy Drive		
Local Printers	Local Printers connected to Computer	✓	
Windows Portable Device (Media Transfer Protocol)	Windows Portable Device (Media Transfer Protocol)		
Digital Camera	Digital Camera		
BlackBerry	BlackBerry hand held Device		
Mobile Phones (Sony Ericsson, etc.)	Mobile Phones (Sony Ericsson, etc.)		
SmartPhone (USB Sync)	SmartPhone connected through USB		
SmartPhone (Windows CE)	Windows CE Device		
SmartPhone (Symbian)	Nokia N Series		
Webcam	Web Camera		
iPhone	iPhone		
iPad	iPad		
iPod	iPod		
Serial ATA Controller	Serial ATA Controller	✓	
WiFi	Wireless Network		
Bluetooth	Bluetooth Devices		
FireWire Bus	FireWire Bus	✓	✓
Serial Port	Serial Port		
PCMCIA Device	PCMCIA Device		
Card Reader Device (MTD)	Card Reader Device based on Memory Technology Driver	✓	
Card Reader Device (SCSI)	Card Reader Device based on SCSI Adapter	✓	
ZIP Drive	ZIP Drive	✓	
Teensy Board	USB-based Microcontroller Development System		
Thunderbolt	Thunderbolt	✓	✓
Network Share	Network Share	✓	
Infrared Dongle	Infrared Dongle		
Parallel Port (LPT)	Parallel Port (LPT)		
Additional Keyboard	Additional Keyboard		
USB Modem	USB Modem		

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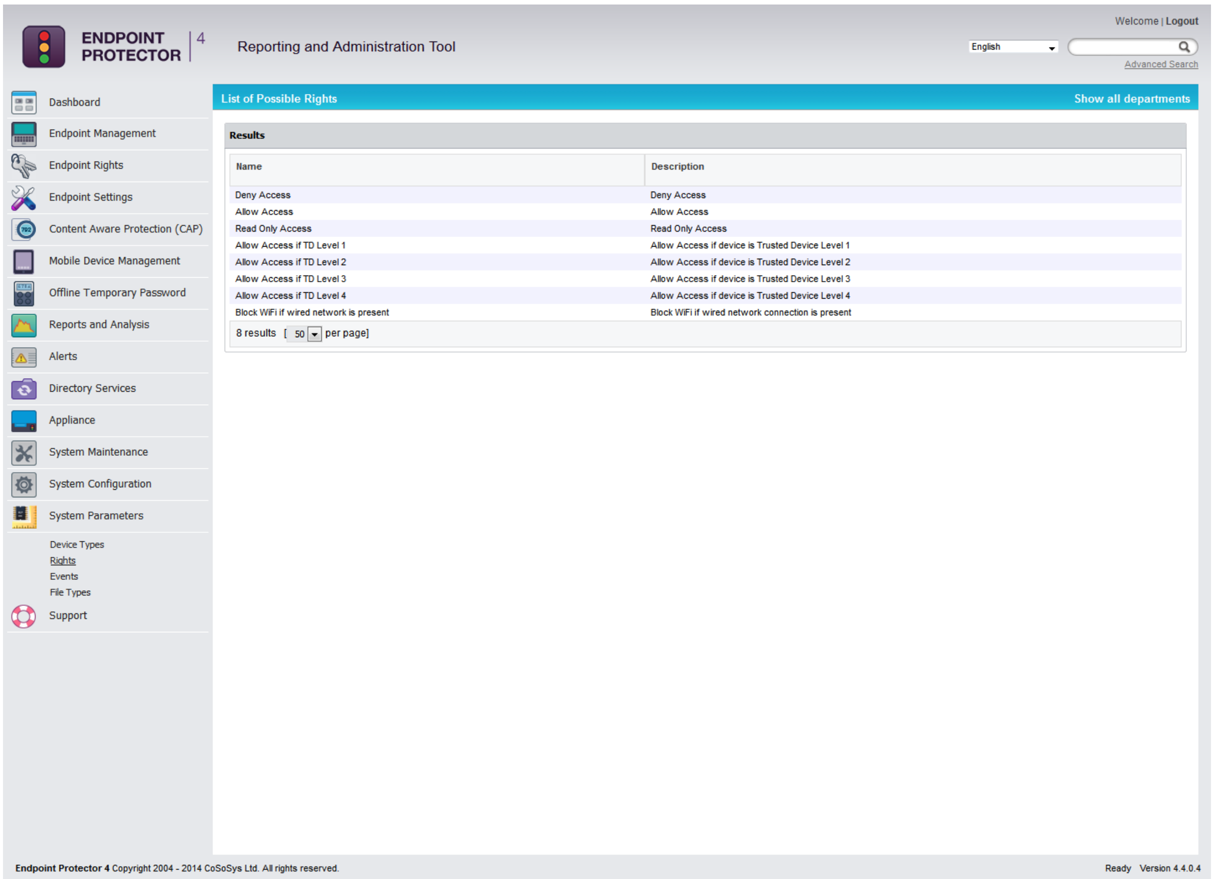
No Background Tasks Version 4.4.0.6

14.2. Rights

This list contains the access rights which can be assigned on the system for devices at any time.



Name	Description
Deny Access	Deny Access
Allow Access	Allow Access
Read Only Access	Read Only Access
Allow Access if TD Level 1	Allow Access if device is Trusted Device Level 1
Allow Access if TD Level 2	Allow Access if device is Trusted Device Level 2
Allow Access if TD Level 3	Allow Access if device is Trusted Device Level 3
Allow Access if TD Level 4	Allow Access if device is Trusted Device Level 4
Block WiFi if wired network is present	Block WiFi if wired network connection is present

8 results [50 per page]

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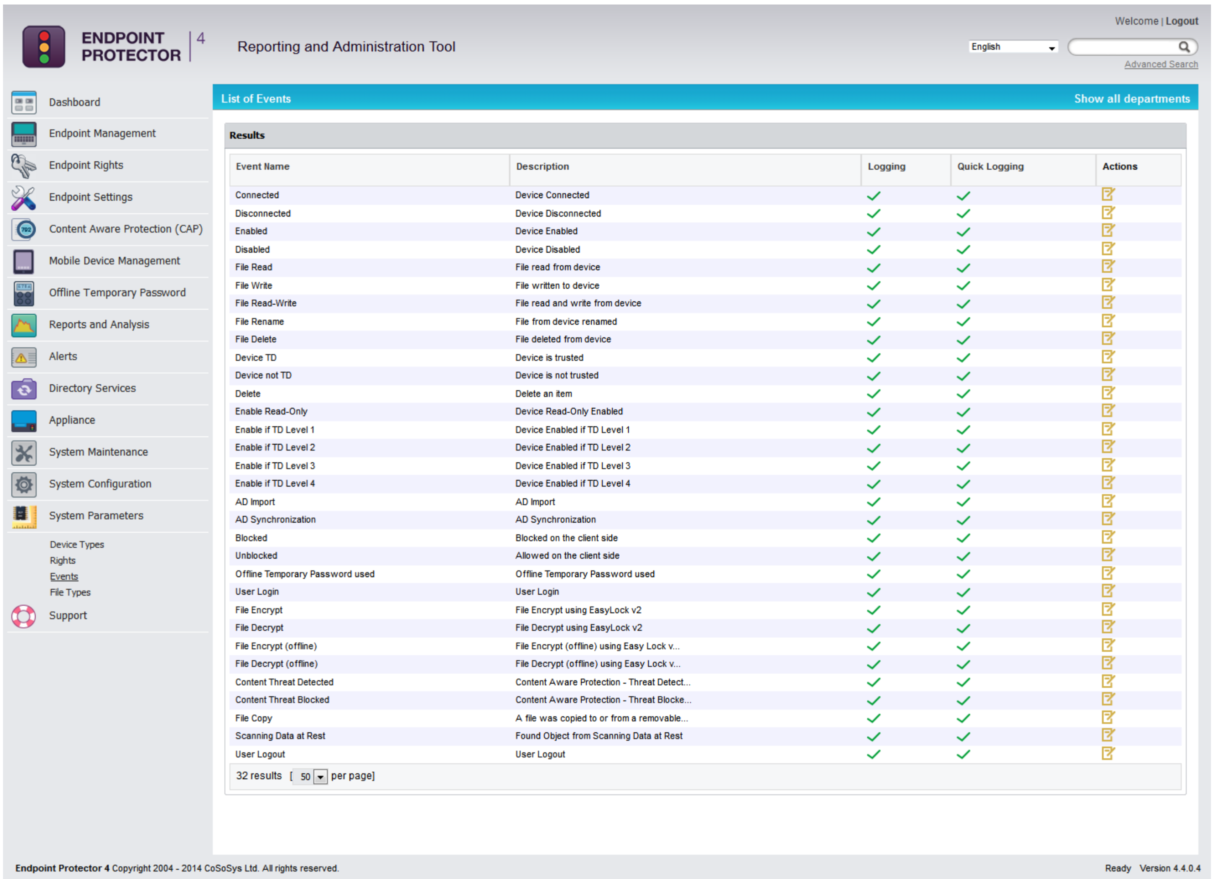
Ready Version 4.4.0.4

14.3. Events

This list contains the events which will be logged for further reference.



List of Events

Results

Event Name	Description	Logging	Quick Logging	Actions
Connected	Device Connected	✓	✓	✎
Disconnected	Device Disconnected	✓	✓	✎
Enabled	Device Enabled	✓	✓	✎
Disabled	Device Disabled	✓	✓	✎
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	Device is trusted	✓	✓	✎
Device not TD	Device is not trusted	✓	✓	✎
Delete	Delete an item	✓	✓	✎
Enable Read-Only	Device Read-Only Enabled	✓	✓	✎
Enable if TD Level 1	Device Enabled if TD Level 1	✓	✓	✎
Enable if TD Level 2	Device Enabled if TD Level 2	✓	✓	✎
Enable if TD Level 3	Device Enabled if TD Level 3	✓	✓	✎
Enable if TD Level 4	Device Enabled if TD Level 4	✓	✓	✎
AD Import	AD Import	✓	✓	✎
AD Synchronization	AD Synchronization	✓	✓	✎
Blocked	Blocked on the client side	✓	✓	✎
Unblocked	Allowed on the client side	✓	✓	✎
Offline Temporary Password used	Offline Temporary Password used	✓	✓	✎
User Login	User Login	✓	✓	✎
File Encrypt	File Encrypt using EasyLock v2	✓	✓	✎
File Decrypt	File Decrypt using EasyLock v2	✓	✓	✎
File Encrypt (offline)	File Encrypt (offline) using Easy Lock v...	✓	✓	✎
File Decrypt (offline)	File Decrypt (offline) using Easy Lock v...	✓	✓	✎
Content Threat Detected	Content Aware Protection - Threat Detect...	✓	✓	✎
Content Threat Blocked	Content Aware Protection - Threat Blocke...	✓	✓	✎
File Copy	A file was copied to or from a removable...	✓	✓	✎
Scanning Data at Rest	Found Object from Scanning Data at Rest	✓	✓	✎
User Logout	User Logout	✓	✓	✎

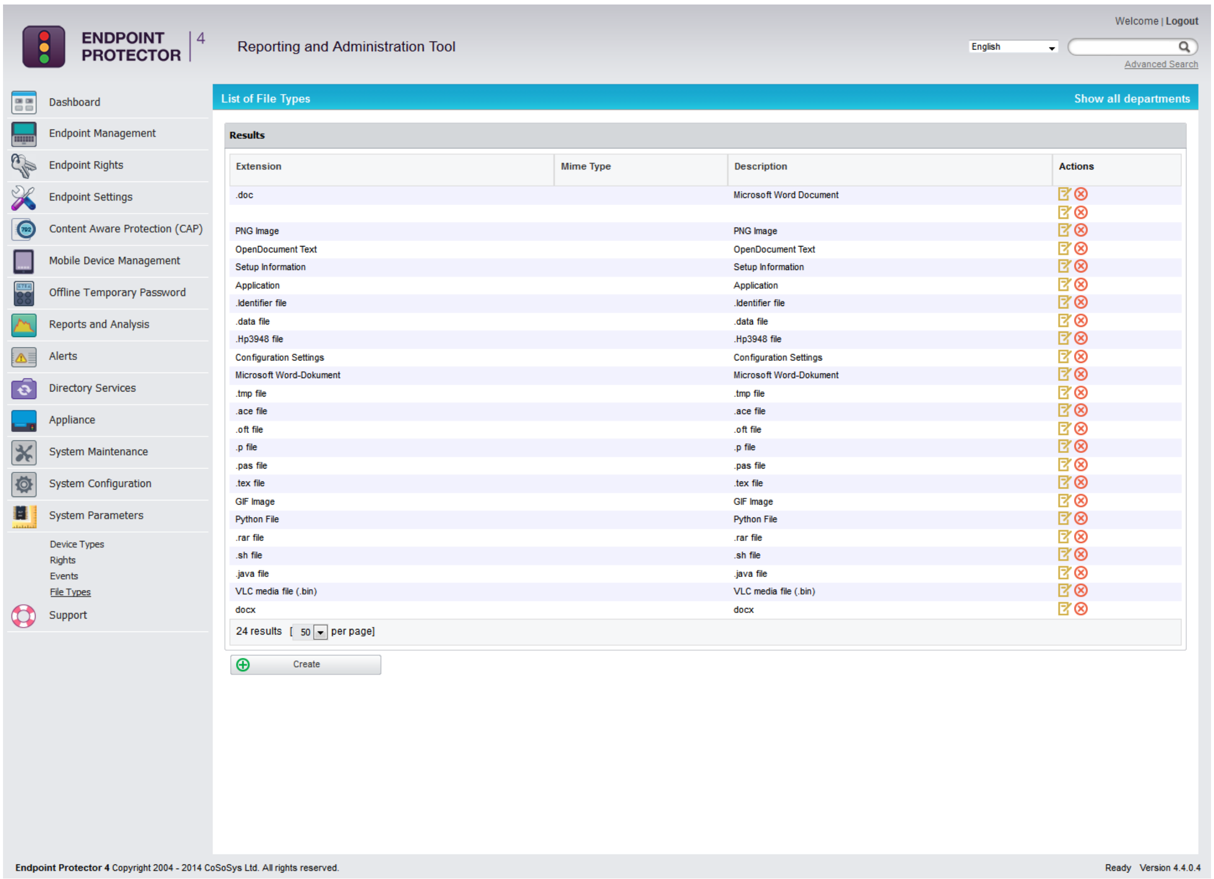
32 results [50 per page]

Note!

Changing this list without CoSoSys' acknowledgement can limit system functionality and performance; however, such customizations/implementations can be performed by request by one of our specialists as part of our Professional Services offered to customers.

14.4. File Types

This list contains common file type extensions and a description for each of them making them easier to recognize when creating audits.



Extension	Mime Type	Description	Actions
.doc		Microsoft Word Document	✎ ⊗
			✎ ⊗
PNG Image		PNG Image	✎ ⊗
OpenDocument Text		OpenDocument Text	✎ ⊗
Setup Information		Setup Information	✎ ⊗
Application		Application	✎ ⊗
.Identifier file		.Identifier file	✎ ⊗
.data file		.data file	✎ ⊗
.Hp3948 file		.Hp3948 file	✎ ⊗
Configuration Settings		Configuration Settings	✎ ⊗
Microsoft Word-Dokument		Microsoft Word-Dokument	✎ ⊗
.tmp file		.tmp file	✎ ⊗
.ace file		.ace file	✎ ⊗
.oft file		.oft file	✎ ⊗
.p file		.p file	✎ ⊗
.pas file		.pas file	✎ ⊗
.tex file		.tex file	✎ ⊗
GIF Image		GIF Image	✎ ⊗
Python File		Python File	✎ ⊗
.rar file		.rar file	✎ ⊗
.sh file		.sh file	✎ ⊗
.java file		.java file	✎ ⊗
VLC media file (.bin)		VLC media file (.bin)	✎ ⊗
docx		docx	✎ ⊗

24 results [50 per page]

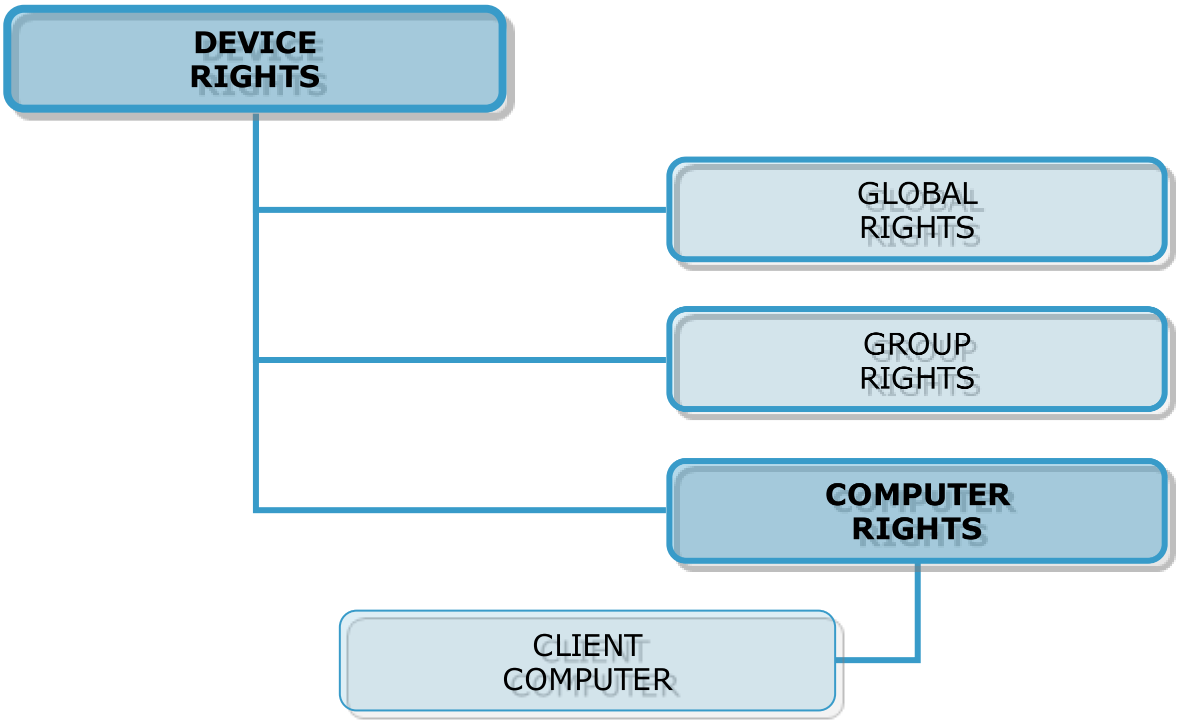
15. Setting up Policies

Most companies like to limit their employee’s access to data, especially if it is confidential. Through Endpoint Protector you can enforce your security policies and keep confidential data away from the hands of curious employees. You can start setting your policies in the Rights section of Endpoint Protector. There are four sections here that need to be mentioned.

Device Rights, Computer Rights, Group Rights and Global Rights. You can find descriptions of these items in the previous paragraphs. Before configuring computers and devices, there are certain aspects of Endpoint Protector you should be aware of.

Computer Rights, Group Rights and Global Rights form a single unit and they inherit each-others settings, meaning that changes to any one of these modules 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 module surpasses all settings from Computer Rights, Group Rights and Global Rights. If you give permission to a device to be available to clients, it will be usable under any circumstances.

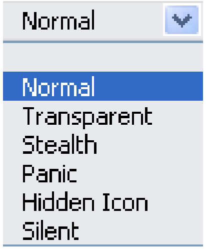


For example: in Global Rights, assign Allow for device X. If in Computer Rights, the same device does not have permission to be used; the device will not be usable. Same applies vice-versa: if the device lacks permission to be used in Global Rights, and has permission under Computer Rights, the device will be usable to the client. The same applies for Global Rights and Group Rights: if under Global Rights the device does not have permission to be used, and under Group Rights permission exists, the device will be available to the client.

	DEVICE 1	DEVICE 2	DEVICE 3	DEVICE 4	DEVICE 5	DEVICE 6
GLOBAL RIGHTS	NOT ALLOWED	ALLOWED	NOT ALLOWED	ALLOWED	NOT ALLOWED	ALLOWED
GROUP RIGHTS	NOT ALLOWED	NOT ALLOWED	ALLOWED	NOT ALLOWED	ALLOWED	ALLOWED
COMPUTER RIGHTS	ALLOWED	NOT ALLOWED	NOT ALLOWED	ALLOWED	ALLOWED	NOT ALLOWED
CLIENT COMPUTER	ALLOWED	NOT ALLOWED	NOT ALLOWED	ALLOWED	ALLOWED	NOT ALLOWED

16. Modes for Users, Computers and Groups

Endpoint Protector features several functionality modes for users, computers and groups. These modes are accessible for each item (users, computers, groups) from the System Policies module of Endpoint Protector using the “Edit” button.



You can change these at any given time.

There are six modes from which you can choose:

- Normal Mode (default setting of Endpoint Protector)
- Transparent Mode
- Stealth Mode
- Panic Mode
- Hidden Icon Mode
- Silent Mode

16.1. Transparent Mode

This mode is used if you want to block all devices but you don't want the user to see and know anything about EPP activity.

- no system tray icon is displayed
- no system tray notifications are shown
- everything is blocked regardless if authorized or not
- Administrator receives alerts (dashboard also shows alerts) for all activities

16.2. Stealth Mode

Similar to Transparent mode, Stealth mode allows the administrator to monitor all of the users and computers activities and actions with all devices allowed.

- no system tray icon is displayed
- no system tray notifications are shown
- everything is allowed (nothing is blocked regardless of what activity)
- file shadowing and file tracing are enabled to see and monitor all user activity
- Administrator receives alerts (dashboard shows also alerts) for all activities

16.3. Panic Mode

Under special circumstances, Panic Mode can be set manually by the administrator in order to block all access to devices.

- system tray icon is displayed
- notifications are displayed
- everything is blocked regardless if authorized or not
- Administrator receives alert (dashboard also shows alerts) when PCs are going in and out of Panic mode

16.4. Hidden Icon Mode

The Hidden Icon Mode is similar to the Normal mode, the difference consisting in the fact that the Agent is not visible to the user.

- no system tray icon is displayed
- no system tray notifications are shown
- all set rights and settings are applied

16.5. Silent Mode

The Silent Mode is similar to the Normal mode, the difference consisting in the fact that the notifications do not pup-up to the user.

- system tray icon is displayed
- no system tray notifications are shown
- all set rights and settings are applied

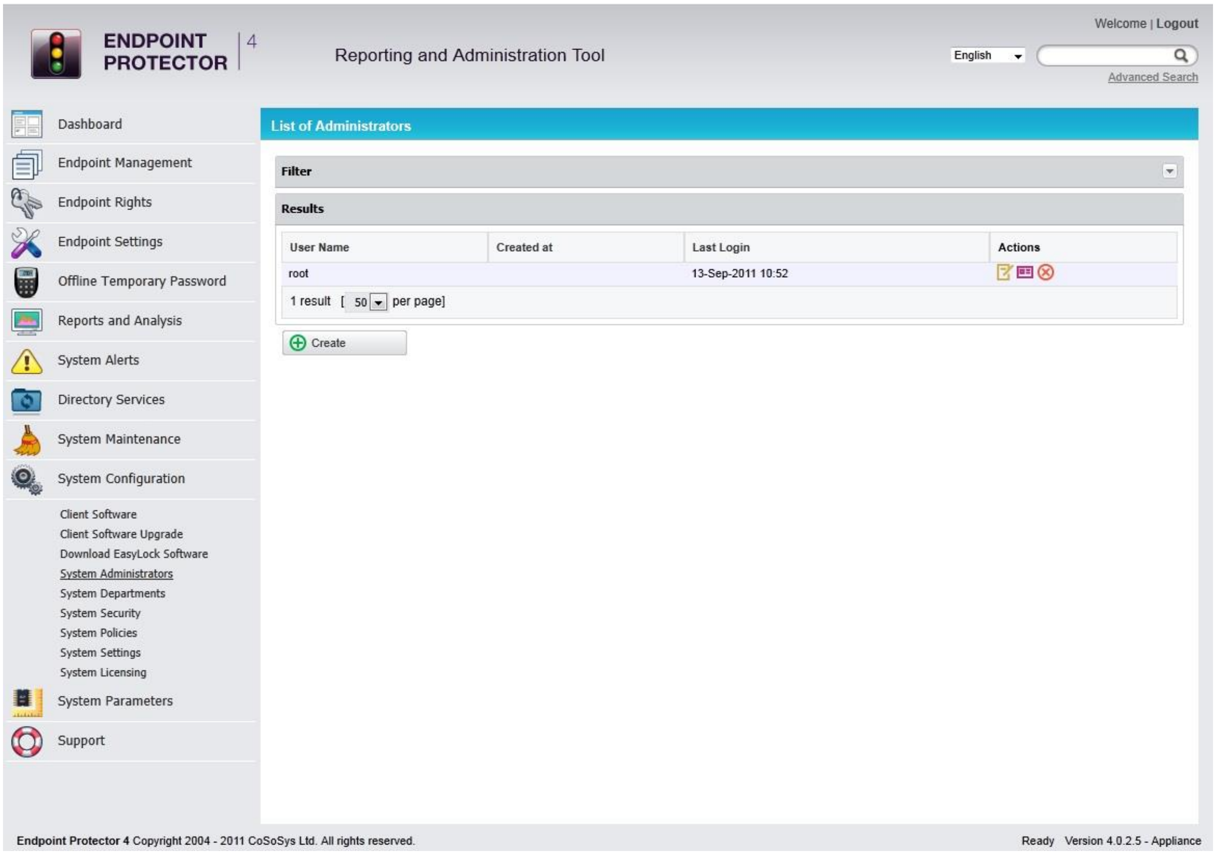
15.6. Adding new administrator(s)

You can add an unlimited number of system administrators, depending on the size and manageability of your network.

While fewer administrators are recommended for easier data loss prevention, it is easier to manage a large network with more.

To add an administrator or Super Administrator in Endpoint Protector, you must login as a super administrator and access the "System Configuration" module then the "Administrators" panel.

Here you can see a list of current Administrator and Super Administrators.



User Name	Created at	Last Login	Actions
root		13-Sep-2011 10:52	

1 result [50 per page]

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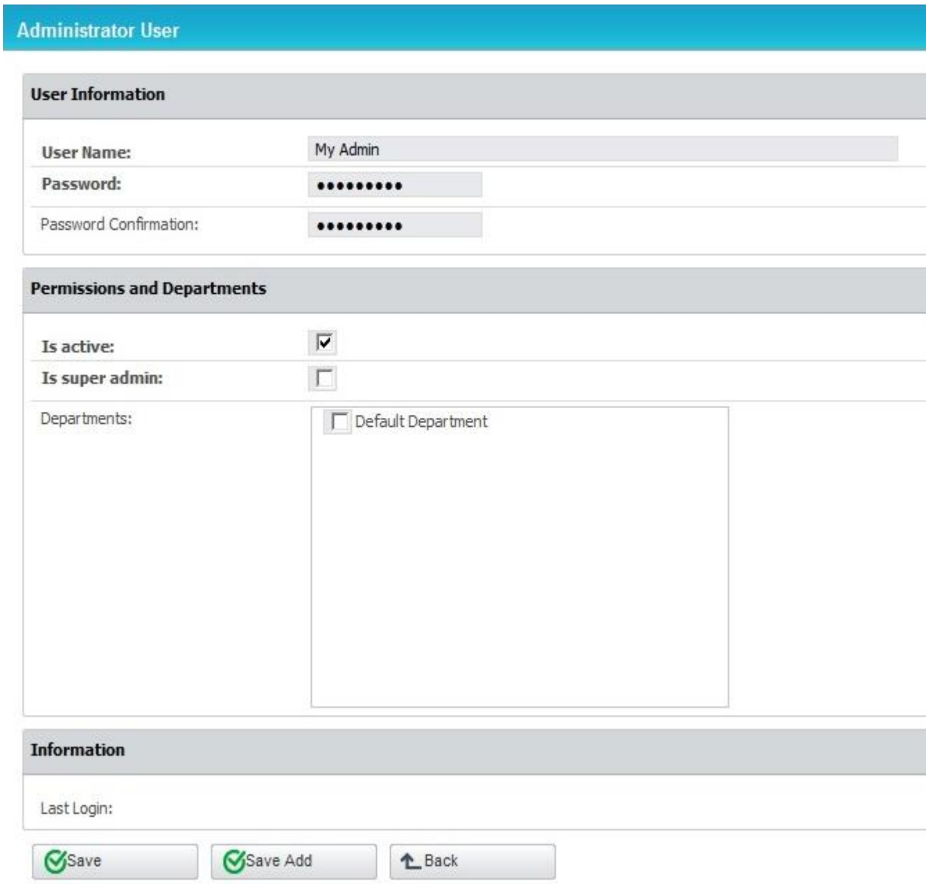
Ready Version 4.0.2.5 - Appliance

To add another Administrator or Super Administrator, click the "Create" button.



Administrator User

User Information

User Name:	My Admin
Password:	••••••••••
Password Confirmation:	•••••••••

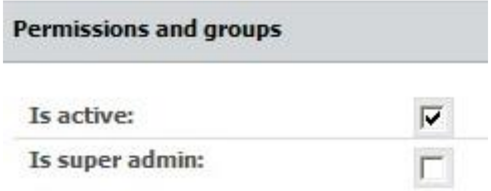
Permissions and Departments

Is active:	☑
Is super admin:	□
Departments:	□ Default Department

Information

Last Login:

Enter the desired user name and password for the new account, then set if the account is active or not or whether is a super admin or not.



Permissions and groups

Is active:	☑
Is super admin:	□

Is active – if this option is not enabled the selected user cannot log in to the Endpoint Protector console. Use this option in case you want to create temporary admin or super admin privileges to a certain user and then remove them or if you want to disable an administrator but do not want to delete his credentials from the server.

Is Super Admin – Super Administrators have more rights than administrators. Super Administrator can create, delete and modify administrator and super administrator settings, while standard administrators do not have this right. The most important difference is that only super administrators are able to view the "Reports and Analysis" section if the option "Data Security Privileges" is selected.

16.7. Working with logs and reports

Endpoint Protector creates a device activity log in which it records actions from all clients and devices connected along with all administrative actions such as device authorizations, giving a history for devices, PCs and users for future audits and detailed analysis.

Logs Report - The most powerful and detailed representation of activity recording can be achieved using this module. This allows the administrator to see exactly which device, computer a user used on a specific time interval, and whether the shadowing for that user/device is enabled or not. There is a special filter designed to make it easier to find this information.

Online Users – Online users are end users who have logged on to a client computer.

Online Computers – Online Computers are client computers which have been set up to communicate with the Endpoint Protector server by installing the Endpoint Protector Client. Here you can see a list of computers which are currently powered on and you can view the actions they have taken.

Online Devices – Connected Devices are devices which are currently plugged-in to one of the (online) client computers. Here again you have the possibility to view an activity log, this time, of the device.

Statistics – The statistics module can generate reports on registered computers, devices and users based on traffic, connections or overall activity. You can set a period for this report (last week, month or year).

17. Enforced Encryption with Trusted Devices

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. If a Trusted Device fails to get authorization from the Endpoint Protector 4 Server, it will not be usable.

How does it work?

Enforcing Encryption can be done by utilizing Trusted Devices. Trusted Devices must receive authorization from the Endpoint Protector 4 Server, otherwise they will be unusable.

There are four levels of security for Trusted Devices.

- **Level 1** - Minimum security for office and personal use with a focus on software based encryption for data security. Offers companies already regulatory compliance.
  Any USB Flash Drive and most other portable storage devices can be turned into a Trusted Device Level 1 with EasyLock Software from CoSoSys.
  No hardware upgrade is required.
  http://www.endpointprotector.com/en/index.php/products/easylock

- **Level 2** - Medium security level with biometric data protection or advanced software based data encryption.
  Requires special hardware that includes security software and that has been tested for Trusted Device Level 2.

- **Level 3** - High security level with strong hardware based encryption that is mandatory for sensitive enterprise data protection for regulatory

compliance such as SOX, HIPAA, GBLA, PIPED, Basel II, DPA, or PCI 95/46/EC.
Requires special hardware that includes advanced security software and hardware based encryption and that has been tested for Trusted Device Level 3.

- **Level 4** - Maximum security for military, government and even secret agent use. Level 4 Trusted Devices 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.
Requires special hardware that is available primarily through security focused resellers.

Refer to the table below for a complete list of TrustedDevices:

Device Names	TrustedDevices Level
UT169, UT176	2
Trek ThumbDrive	2
AT1177	2
Verbatim: V-Secure, Secure Data USB Drive	3
Kanguru: Defender Elite, Elite 30, Elite 200, Defender Elite 2000, Flashtrust	3
IronKey Secure Drive	3
Buffalo Secure Lock	3
Stealth MXP Bio	4
SafeStick BE	4

17.1. How a Level 1 Trusted Device Works

User connects Device to Endpoint Protector protected Client PC. Device is blocked by Endpoint Protector (default action).

Device is checked for authorization.

If device is an authorized Trusted Device Level 1, the EasyLock software on Device will automatically open.

User can transfer files via Drag & Drop in EasyLock from the PC to the Trusted Device.

Data transferred to devices is encrypted via 256bit AES.

User cannot access the device using Windows Explorer or similar applications (e.g. Total Commander).

User does not have the possibility to copy data in unencrypted state to the Trusted Device.

“Trusted Device” implies that the devices offer a safe, risk-free environment to transfer sensitive data and tracking or shadowing files and file transfers is not needed for these devices.

Administrator can audit what user, with what device, on what PC, has transferred what files.

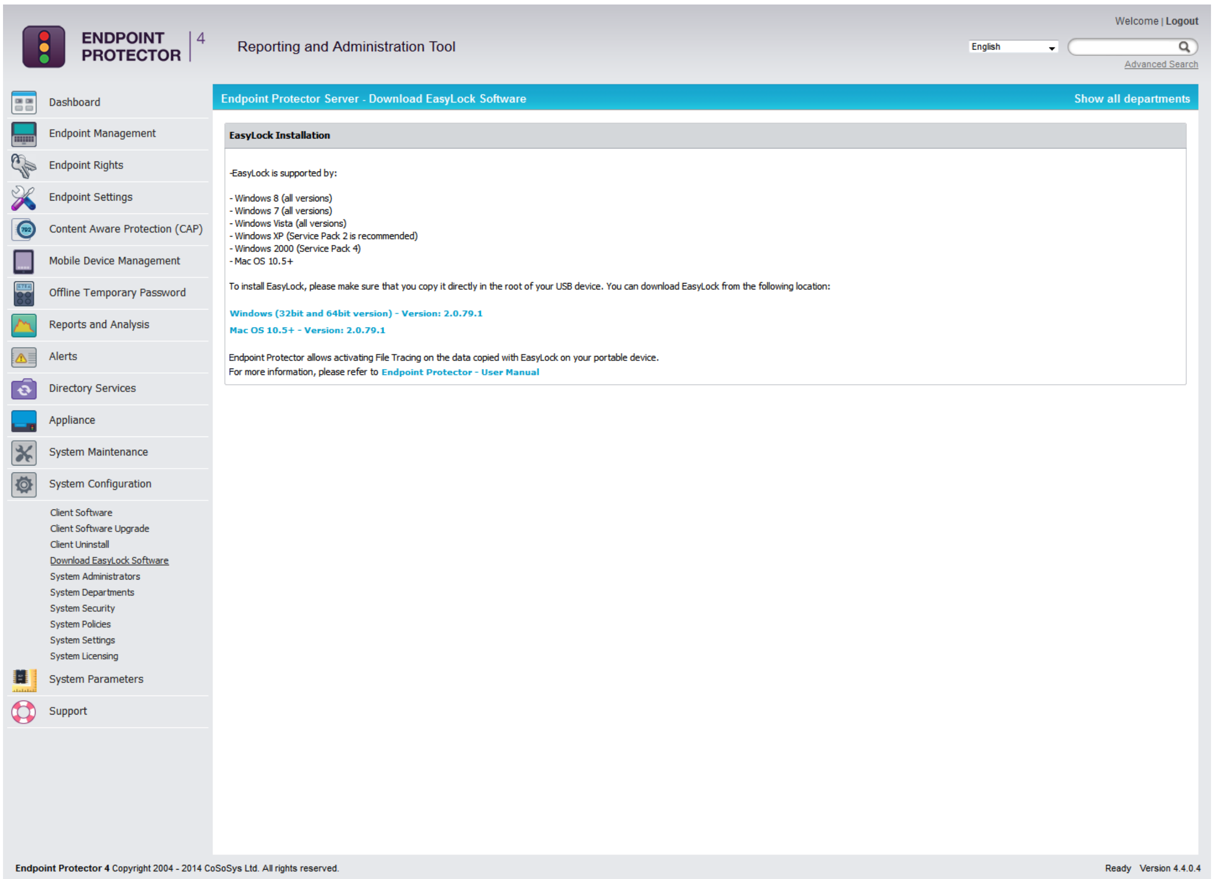
Note!

EasyLock will auto-play only on Windows OS.

17.2. EasyLock Software for Trusted Devices Level 1

EasyLock allows portable devices to be identified as Trusted Devices and protects data on the device with government-approved 256bit AES CBC-mode encryption. With the intuitive Drag & Drop interface, files can be quickly copied to and from the device.

EasyLock can be downloaded directly from the EasyLock Software panel under the System Configuration module.



Endpoint Protector Server - Download EasyLock Software

EasyLock Installation

-EasyLock is supported by:

- Windows 8 (all versions)
- Windows 7 (all versions)
- Windows Vista (all versions)
- Windows XP (Service Pack 2 is recommended)
- Windows 2000 (Service Pack 4)
- Mac OS 10.5+

To install EasyLock, please make sure that you copy it directly in the root of your USB device. You can download EasyLock from the following location:

Windows (32bit and 64bit version) - Version: 2.0.79.1

Mac OS 10.5+ - Version: 2.0.79.1

Endpoint Protector allows activating File Tracing on the data copied with EasyLock on your portable device.
For more information, please refer to Endpoint Protector - User Manual

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To install EasyLock on an USB Flash drive one has to copy the file to the root folder of a partition associated with that device. For Windows computers the file is "EasyLock.exe" and for Macs the file is “EasyLock.app”

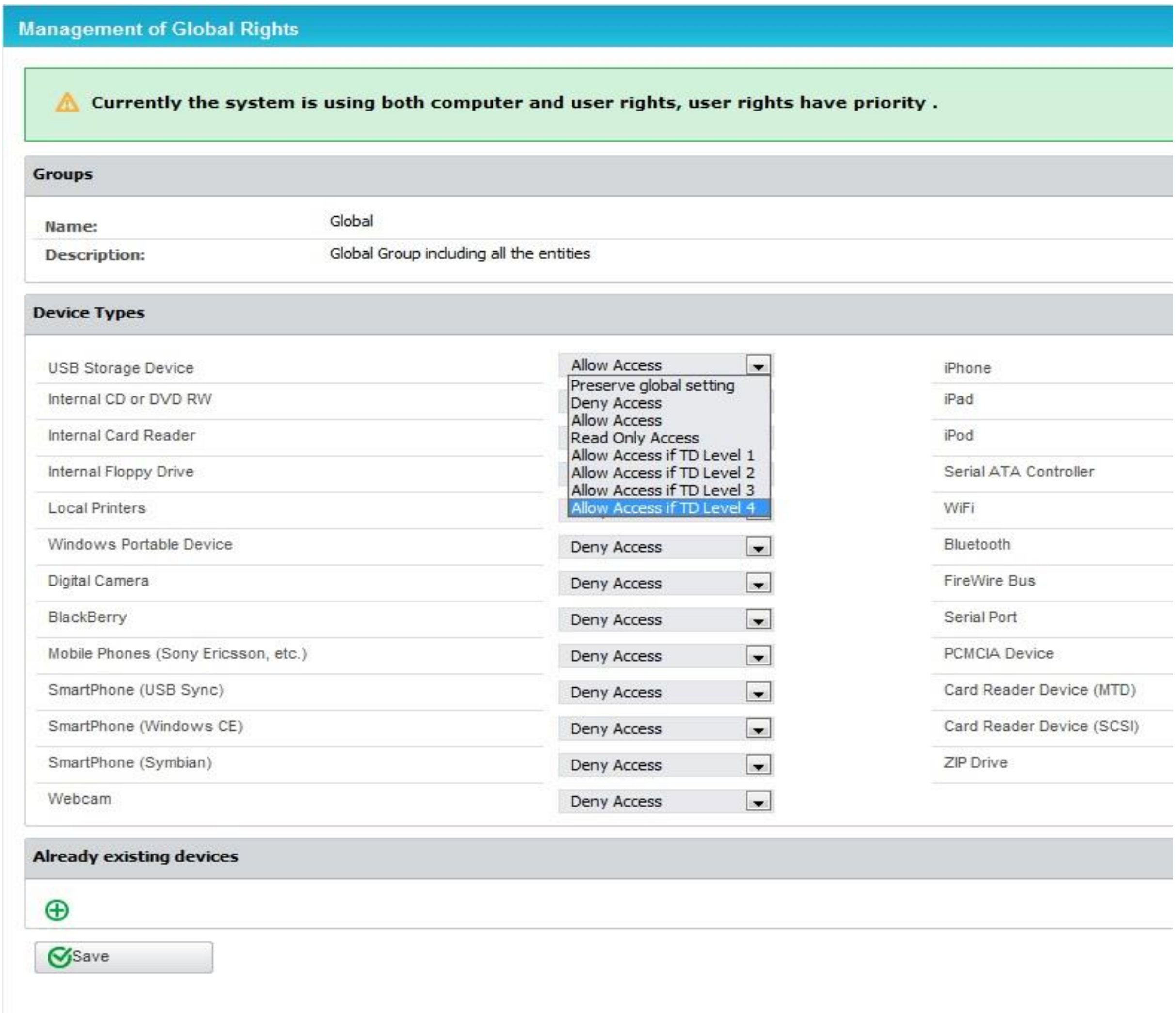
17.2.1. Managing Trusted Devices from EPP server console

Access to Trusted Devices can be configured from the Global Rights module of Endpoint Protector 4, under Rights tab.

Access the drop-down box next to USB Storage Device and select the desired level of Trusted Devices you wish to grant access to.

More information about EasyLock:

http://www.endpointprotector.com/en/index.php/products/easylock



Management of Global Rights

⚠ Currently the system is using both computer and user rights, user rights have priority .

Groups

Name:	Global
Description:	Global Group including all the entities

Device Types

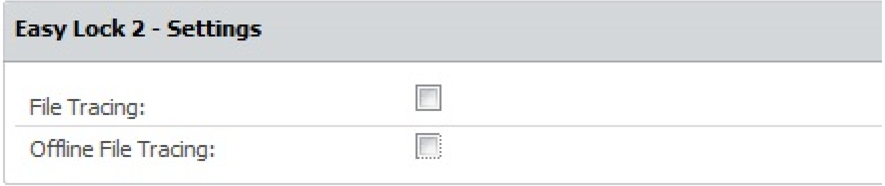
USB Storage Device	Allow Access	iPhone
Internal CD or DVD RW		iPad
Internal Card Reader		iPod
Internal Floppy Drive		Serial ATA Controller
Local Printers		WiFi
Windows Portable Device	Deny Access	Bluetooth
Digital Camera	Deny Access	FireWire Bus
BlackBerry	Deny Access	Serial Port
Mobile Phones (Sony Ericsson, etc.)	Deny Access	PCMCIA Device
SmartPhone (USB Sync)	Deny Access	Card Reader Device (MTD)
SmartPhone (Windows CE)	Deny Access	Card Reader Device (SCSI)
SmartPhone (Symbian)	Deny Access	ZIP Drive
Webcam	Deny Access	

Preserve global setting
Deny Access
Allow Access
Read Only Access
Allow Access if TD Level 1
Allow Access if TD Level 2
Allow Access if TD Level 3
Allow Access if TD Level 4

Already existing devices

17.2.2. File Tracing on EasyLock 2 TrustedDevices

Endpoint Protector 4 allows tracing of files copied in an encrypted way with EasyLock 2 on portable devices. This option can be activated from inside the System Settings window located under the System Configuration tab.



Easy Lock 2 - Settings

File Tracing: □

Offline File Tracing: □

By checking the File Tracing option, all data transferred to and from devices using EasyLock 2 is recorded and logged for later auditing. The logged information is automatically sent to Endpoint Protector Server if Endpoint Protector Client is present on that computer, this taking place regardless of the File Tracing option being enabled or not for that specific computer.

In case that 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 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 next time the device is plugged in and only if Endpoint Protector Client is present and communicates with Endpoint Protector Server, this allowing the transfer and offering a performance based improvement to the overall system functionality.

Additionally, Easy Lock 2 performs File Shadowing for the files that are transferred, if Endpoint Protector Client is present and the File Shadowing option is enabled on the computer on which the events occur. This is a real time event and no shadowing information is stored on the device at any given time.

Note!

File Tracing on EasyLock 2 Trusted Devices must be enabled separately from inside the System Settings window. Enabling global File Tracing will not automatically activate the File Tracing option on EasyLock 2 Trusted Devices and vice versa. Bare in mind that The File Tracing feature on EasyLock 2 Trusted Devices is available at the moment only for Windows OS.

18. Endpoint Protector Client

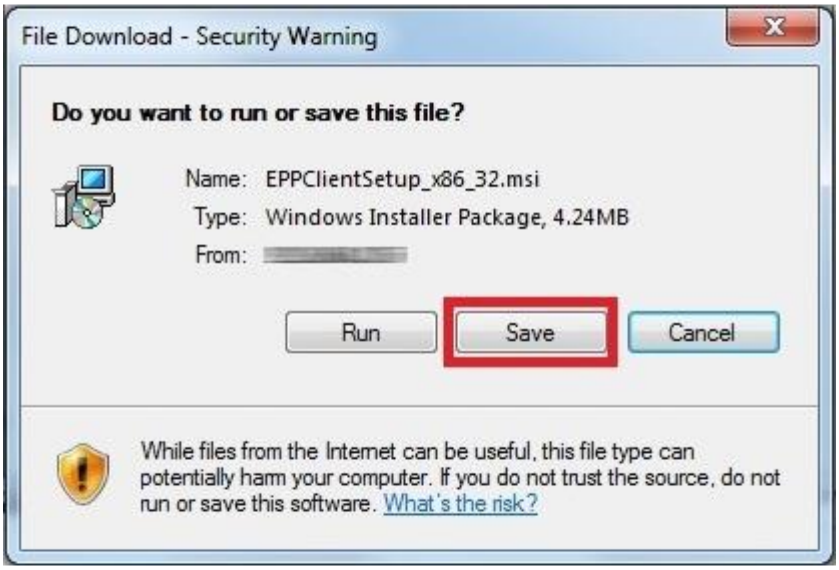
The Endpoint Protector Client is the application which once installed on the client Computers (PC's), communicates with the Endpoint Protector Server and blocks or allows devices to function, as well as sends out notifications in case of unauthorized access.

18.1. Endpoint Protector Client Installation

To install the Endpoint Protector Client on your client computers, you can download it directly from the Endpoint Protector Server Web interface, under the System Configuration -> Client Software tab.

Note!

You need to "Save" the Endpoint Protector Client first on a location and then install it from there. Do not run it directly from the browser!



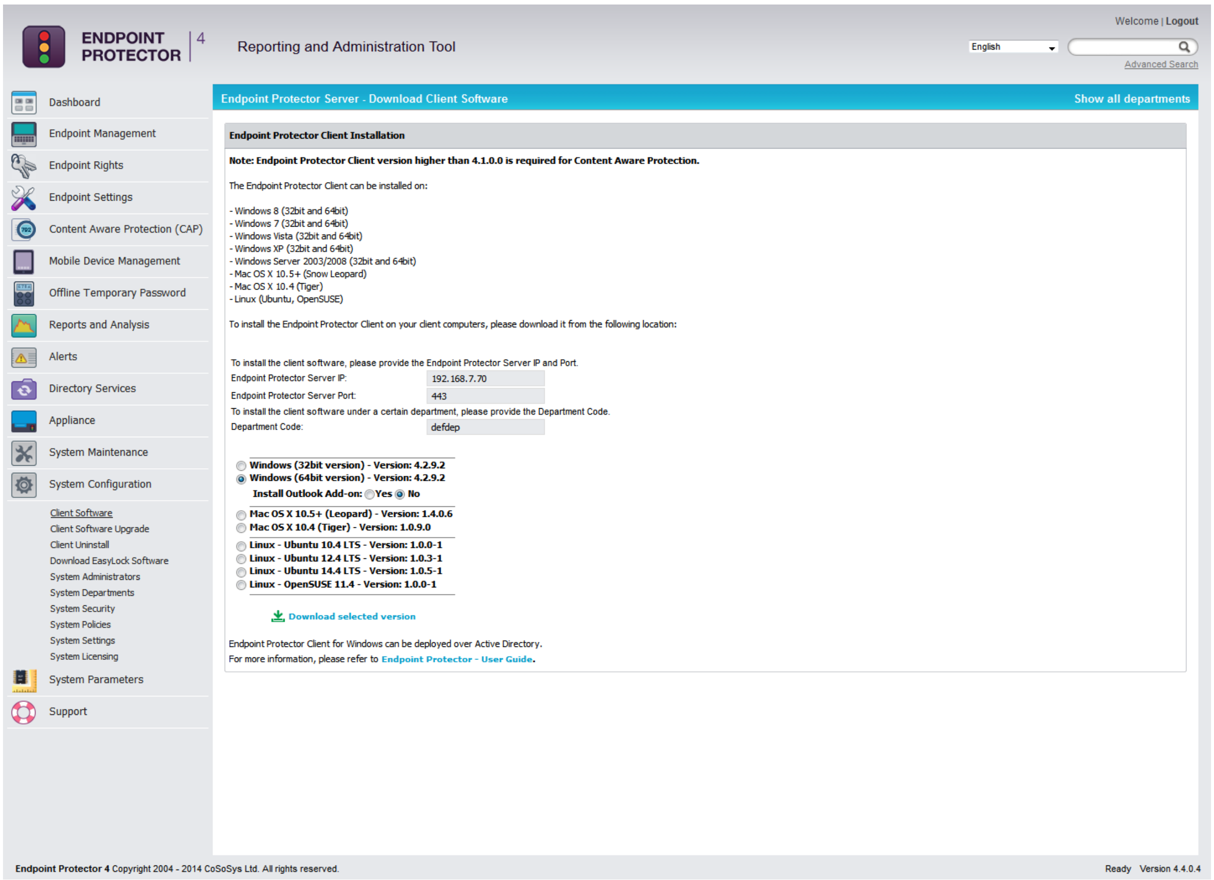
File Download - Security Warning

Do you want to run or save this file?

Name: EPPClientSetup_x86_32.msi
Type: Windows Installer Package, 4.24MB
From: [redacted]

While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

Before downloading the Endpoint Protector Client, please make sure that you specify the IP of your Endpoint Protector Server and the unique code of the Department in which you want to include it. In case that no unique code is entered, the client will be assigned to the Default Department.



Endpoint Protector Server - Download Client Software

Endpoint Protector Client Installation

Note: Endpoint Protector Client version higher than 4.1.0.0 is required for Content Aware Protection.

The Endpoint Protector Client can be installed on:

- Windows 8 (32bit and 64bit)
- Windows 7 (32bit and 64bit)
- Windows Vista (32bit and 64bit)
- Windows XP (32bit and 64bit)
- Windows Server 2003/2008 (32bit and 64bit)
- Mac OS X 10.5+ (Snow Leopard)
- Mac OS X 10.4 (Tiger)
- Linux (Ubuntu, OpenSUSE)

To install the Endpoint Protector Client on your client computers, please download it from the following location:

To install the client software, please provide the Endpoint Protector Server IP and Port.

Endpoint Protector Server IP: 192.168.7.70

Endpoint Protector Server Port: 443

To install the client software under a certain department, please provide the Department Code.

Department Code: defdep

○ **Windows (32bit version) - Version: 4.2.9.2**
● **Windows (64bit version) - Version: 4.2.9.2**
Install Outlook Add-on: ○ **Yes** ● **No**

○ **Mac OS X 10.5+ (Leopard) - Version: 1.4.0.6**
○ **Mac OS X 10.4 (Tiger) - Version: 1.0.9.0**

○ **Linux - Ubuntu 10.4 LTS - Version: 1.0.0-1**
○ **Linux - Ubuntu 12.4 LTS - Version: 1.0.3-1**
○ **Linux - Ubuntu 14.4 LTS - Version: 1.0.5-1**
○ **Linux - OpenSUSE 11.4 - Version: 1.0.0-1**

Download selected version

Endpoint Protector Client for Windows can be deployed over Active Directory.
For more information, please refer to **Endpoint Protector - User Guide**.

Active Directory can be used for Endpoint Protector Client deployment as well. This feature can be used by accessing the Endpoint Protector **Directory Services** menu. The manual containing the instructions for importing and synchronizing Active Directory with Endpoint Protector can be accessed from the Support Menu, at **AD Deployment Guide**.

Note!

For Linux clients, please consult the **readmeLinux.txt** file available under the "Read this before installing" link for exact installation instructions corresponding to the previously selected Linux distribution!

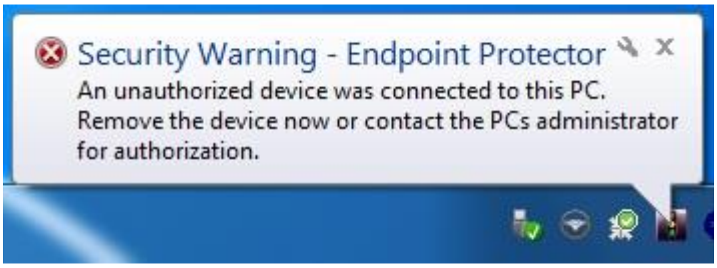
18.2. Endpoint Protector Client Security

The Endpoint Protector Client has a built in security system which makes stopping the service nearly impossible.

This mechanism has been implemented to prevent the circumvention of security measures enforced by then network administrator.

18.3. Client Notifications (Notifier)

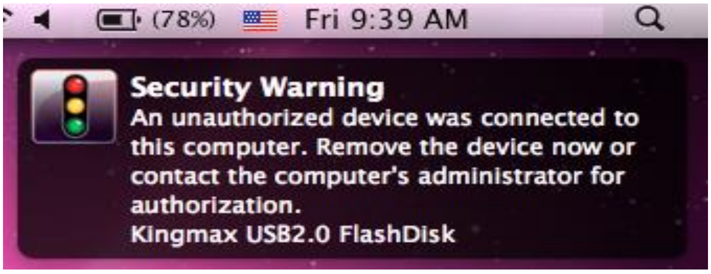
The Endpoint Protector Client, depending in the mode it is currently running on, will display a notification from the taskbar icon when an unauthorized device is connected to the PC. Not only does it log any attempts to forcefully access the system, it can also trigger the Panic mode.



Security Warning - Endpoint Protector

An unauthorized device was connected to this PC. Remove the device now or contact the PCs administrator for authorization.

In case of a Mac, the notification will look like bellow:



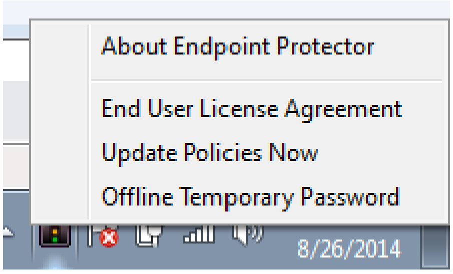
Security Warning

An unauthorized device was connected to this computer. Remove the device now or contact the computer's administrator for authorization.

Kingmax USB2.0 FlashDisk

18.4. Client Policy Update

The Client has a built in feature to ensure the latest policies are received. The "Update Policies Now" is available by right clicking on the Endpoint Protector system tray icon, as shown below:



18.5. Offline Functionality for Endpoint Protector Client

Depending on the global settings the Endpoint Protector Client will store a local file tracing history and a local file shadow history that will be submitted and synchronized with the Endpoint Protector Server upon next connection to the network.

18.6. DHCP / Manual IP address

Endpoint Protector Client automatically recognizes changes in the network's configuration and updates settings accordingly, meaning that you can keep your laptop protected at the office (DHCP) and at home(Manual IP address) too without having to reinstall the client or modify any changes.

18.7. Client Removal

18.7.1. Client Removal on Windows OS

The Endpoint Protector Client cannot be uninstalled without specifying the password set by the administrator(s) in the Reporting and Administration Tool.

There is also the option to remotely uninstall clients from the

18.7.2. Client removal on MAC OS X

To remove the Endpoint Protector Client you need to run (double click in Finder) the "remove-epp.command" file that was attached to the "Endpoint Protector" client package that you downloaded.

You will be prompted to enter the root password to perform administrative tasks.

18.7.3. Client removal on Linux OS

To remove the Endpoint Protector Client you need to run from the console/terminal the "uninstall.sh" file that was attached to the "Endpoint Protector" client package that you downloaded.

Note!

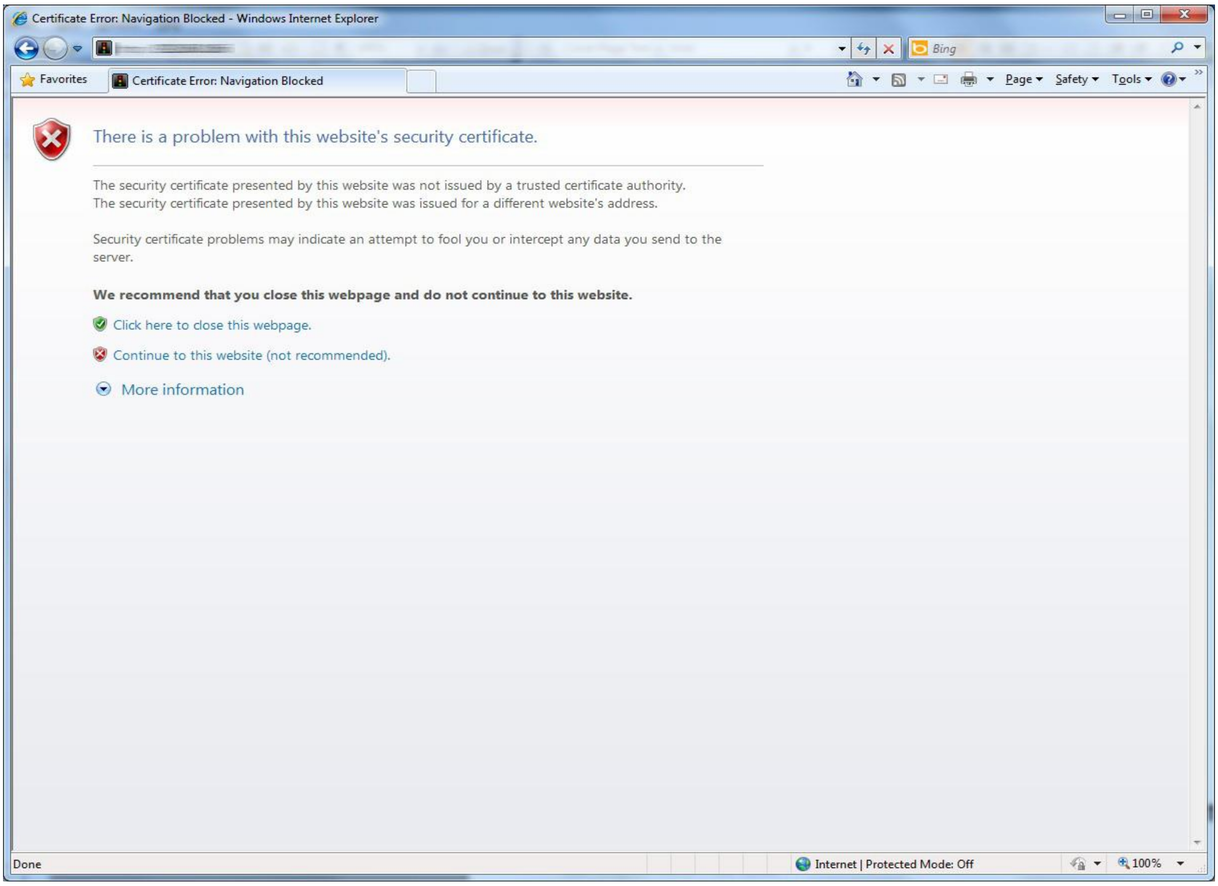
For exact uninstall instructions corresponding to your Linux distribution, please consult the readme file available in the System Configuration – Client Installation window by clicking the "Read this before installing" link!

19. Installing Root Certificates to your Internet Browser

19.1. For Microsoft Internet Explorer

Open Endpoint Protector Administration and Reporting Tool IP address. (Your Appliance static IP Address, example https://192.168.0.201).

If there is no certificate in your browser, you will be prompted with Certificate Error page like the screenshot below.



Certificate Error: Navigation Blocked - Windows Internet Explorer
Bing
Favorites
Certificate Error: Navigation Blocked
Page
Safety
Tools
Done
Internet | Protected Mode: Off
100%

There is a problem with this website's security certificate.

The security certificate presented by this website was not issued by a trusted certificate authority.
The security certificate presented by this website was issued for a different website's address.

Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.

We recommend that you close this webpage and do not continue to this website.

Click here to close this webpage.

Continue to this website (not recommended).

More information

Continue your navigation by clicking “Continue to this website (not recommended)”.

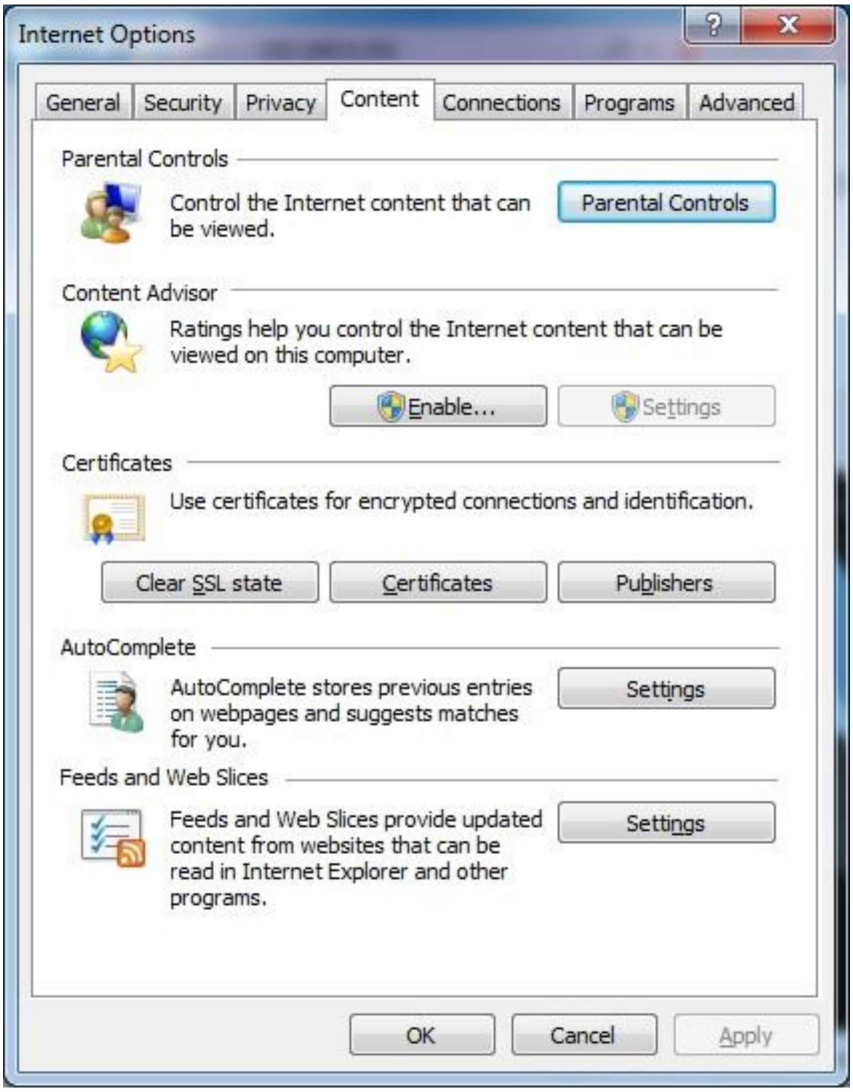
Now, go to the Certificate file you downloaded from the Appliance Setup Wizard->Appliance Server Certificate-> and install the Certificate.

Click the Certificate Error button just next to the IE address bar as shown.

By clicking the “Certificate Error” button, a pop-up window appears. Just click the “View certificates” in that pop-up window.

Another pop-up Certificate window will appear with three tabs namely “General”, “Details” and “Certification Path”.

Select the “General” tab and then click “Install Certificate...” button or go to Tools->Internet Options-> Content->Certificates.



Control the Internet content that can be viewed.

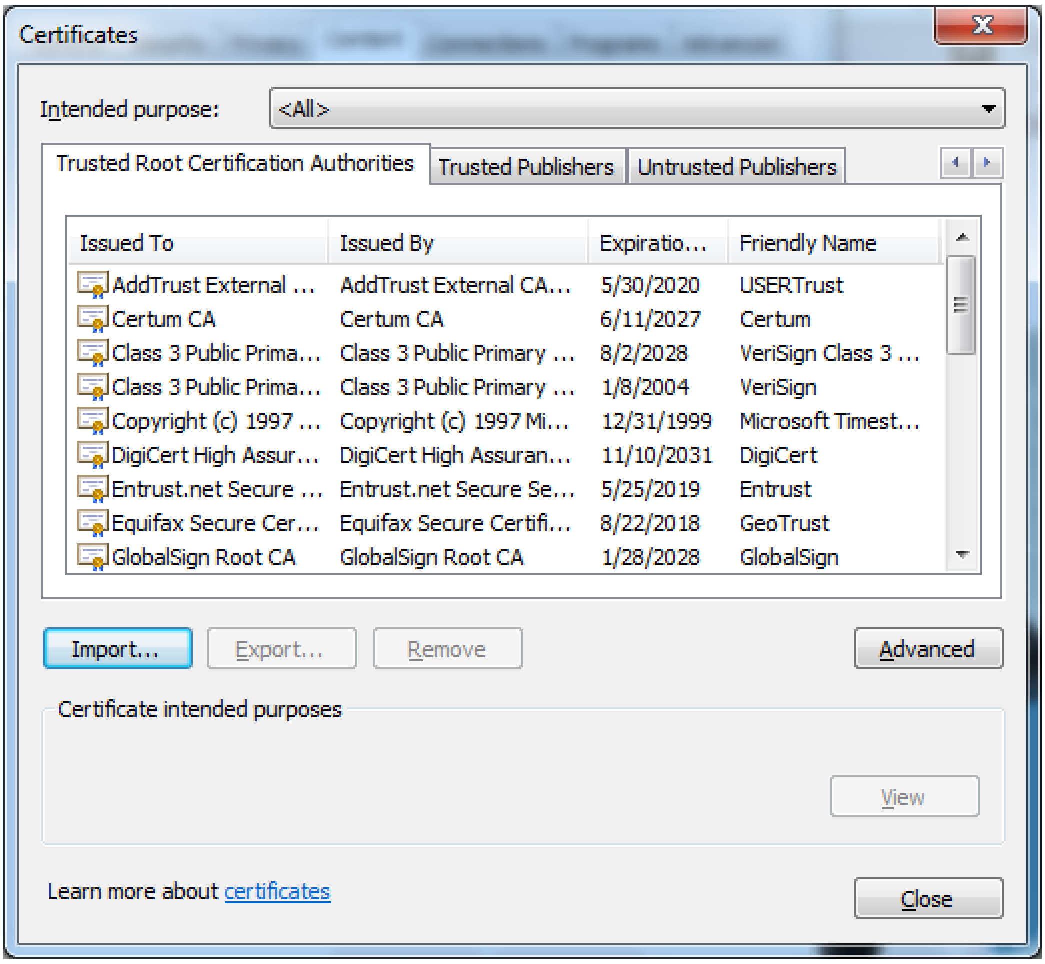
Ratings help you control the Internet content that can be viewed on this computer.

Use certificates for encrypted connections and identification.

AutoComplete stores previous entries on webpages and suggests matches for you.

Feeds and Web Slices provide updated content from websites that can be read in Internet Explorer and other programs.

From the Certificates list, select “Trusted Root Certification Authorities” and click on the “Import” button.

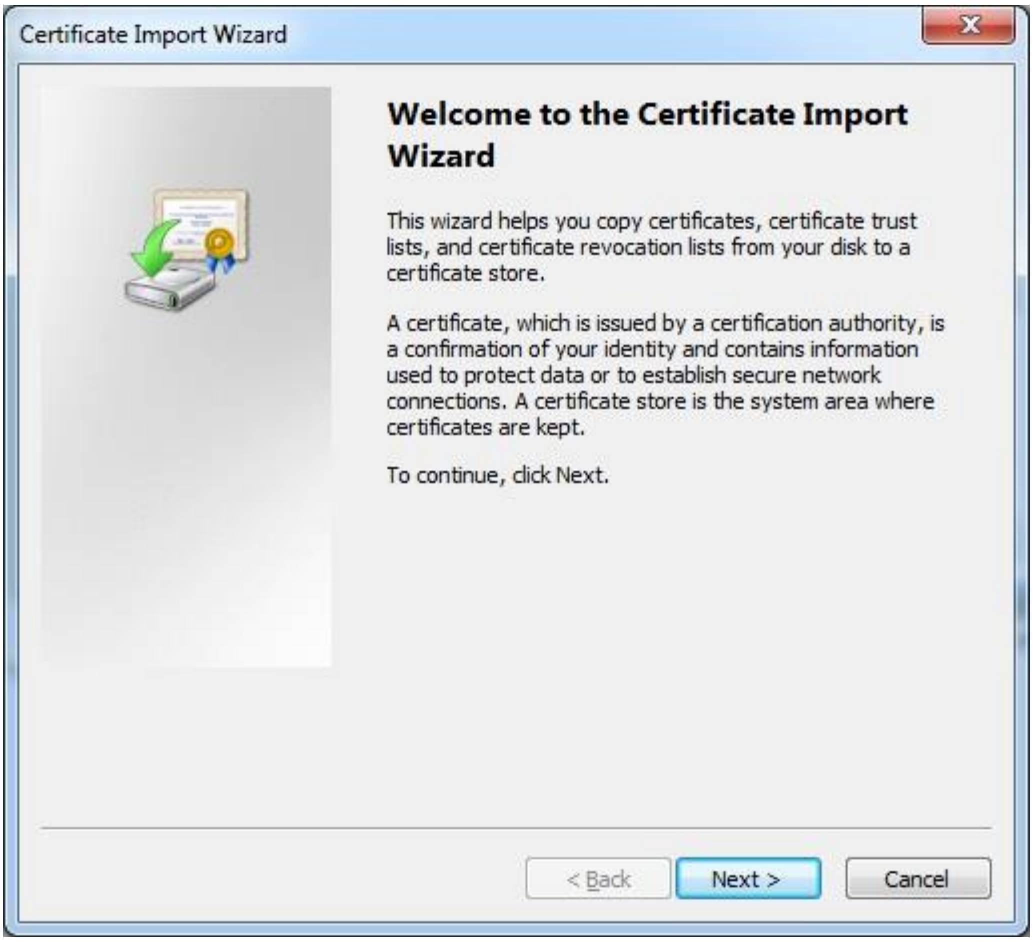


Intended purpose: <All>

Issued To	Issued By	Expiratio...	Friendly Name
AddTrust External ...	AddTrust External CA...	5/30/2020	USERTrust
Certum CA	Certum CA	6/11/2027	Certum
Class 3 Public Prima...	Class 3 Public Primary ...	8/2/2028	VeriSign Class 3 ...
Class 3 Public Prima...	Class 3 Public Primary ...	1/8/2004	VeriSign
Copyright (c) 1997 ...	Copyright (c) 1997 Mi...	12/31/1999	Microsoft Timest...
DigiCert High Assur...	DigiCert High Assuran...	11/10/2031	DigiCert
Entrust.net Secure ...	Entrust.net Secure Se...	5/25/2019	Entrust
Equifax Secure Cer...	Equifax Secure Certifi...	8/22/2018	GeoTrust
GlobalSign Root CA	GlobalSign Root CA	1/28/2028	GlobalSign

Certificates
Trusted Root Certification Authorities
Trusted Publishers
Untrusted Publishers
Import...
Export...
Remove
Advanced
Certificate intended purposes
View
Learn more about certificates
Close

A Welcome to the Certificate Import Wizard pops up. Just click the Next button.



Certificate Import Wizard

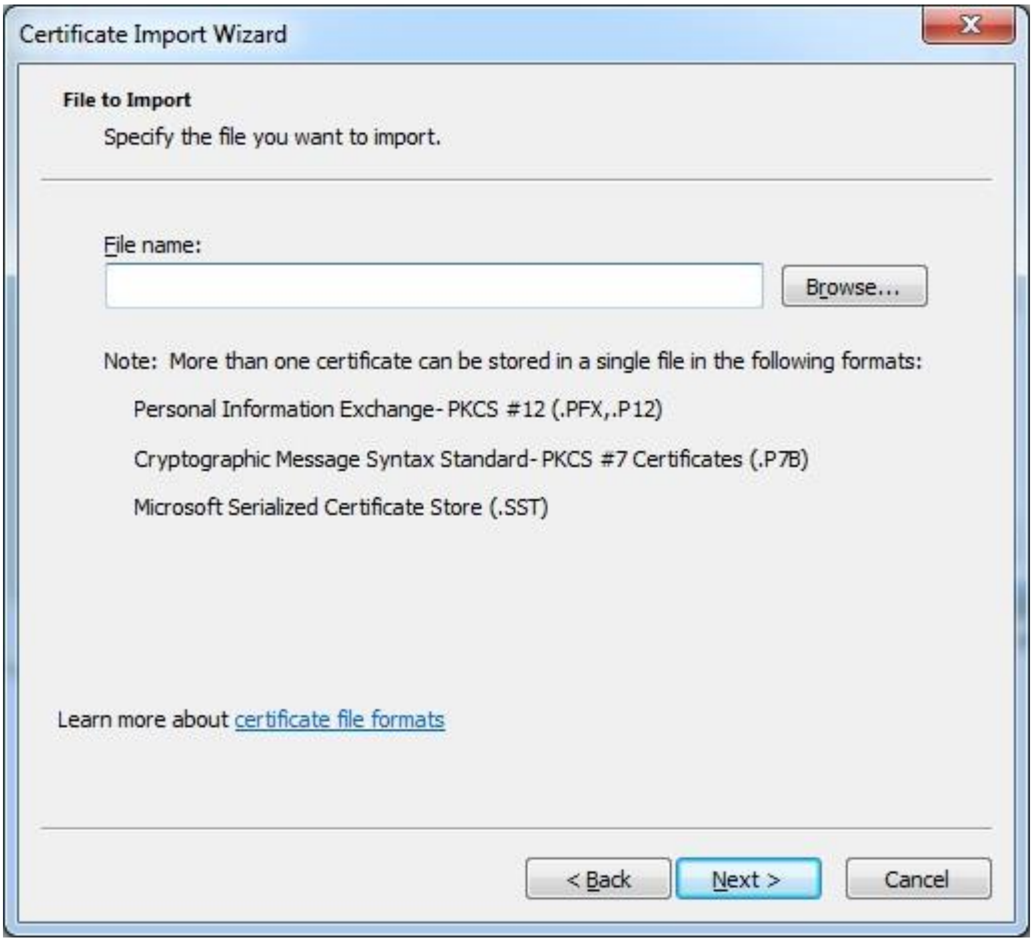
Welcome to the Certificate Import Wizard

This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.

A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

To continue, click Next.

Browse for the Certificate file you downloaded from the Appliance Setup Wizard ->Appliance Server Certificate.



Certificate Import Wizard

File to Import

Specify the file you want to import.

File name:

Note: More than one certificate can be stored in a single file in the following formats:

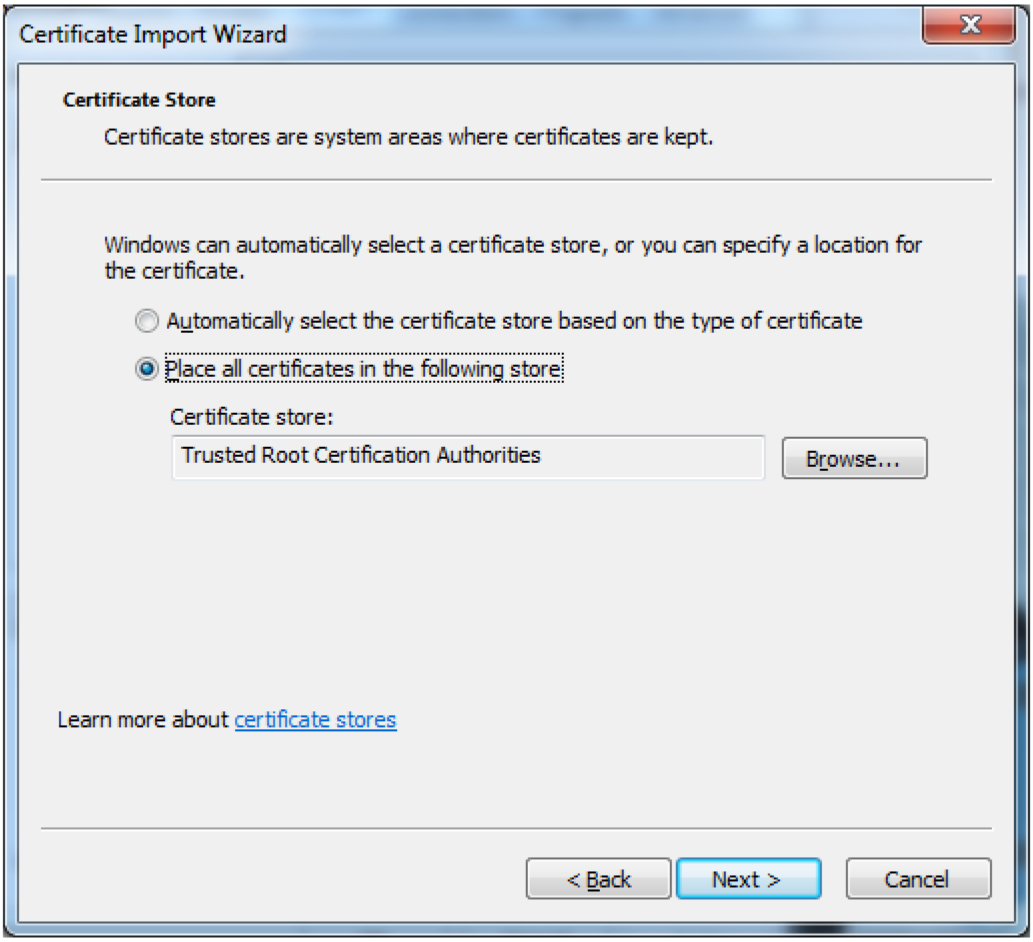
Personal Information Exchange- PKCS #12 (.PFX,.P12)

Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)

Microsoft Serialized Certificate Store (.SST)

Learn more about certificate file formats

In the Certificate Store window, select "Place all certificates in the following store" radio button.



Certificate Import Wizard

Certificate Store

Certificate stores are system areas where certificates are kept.

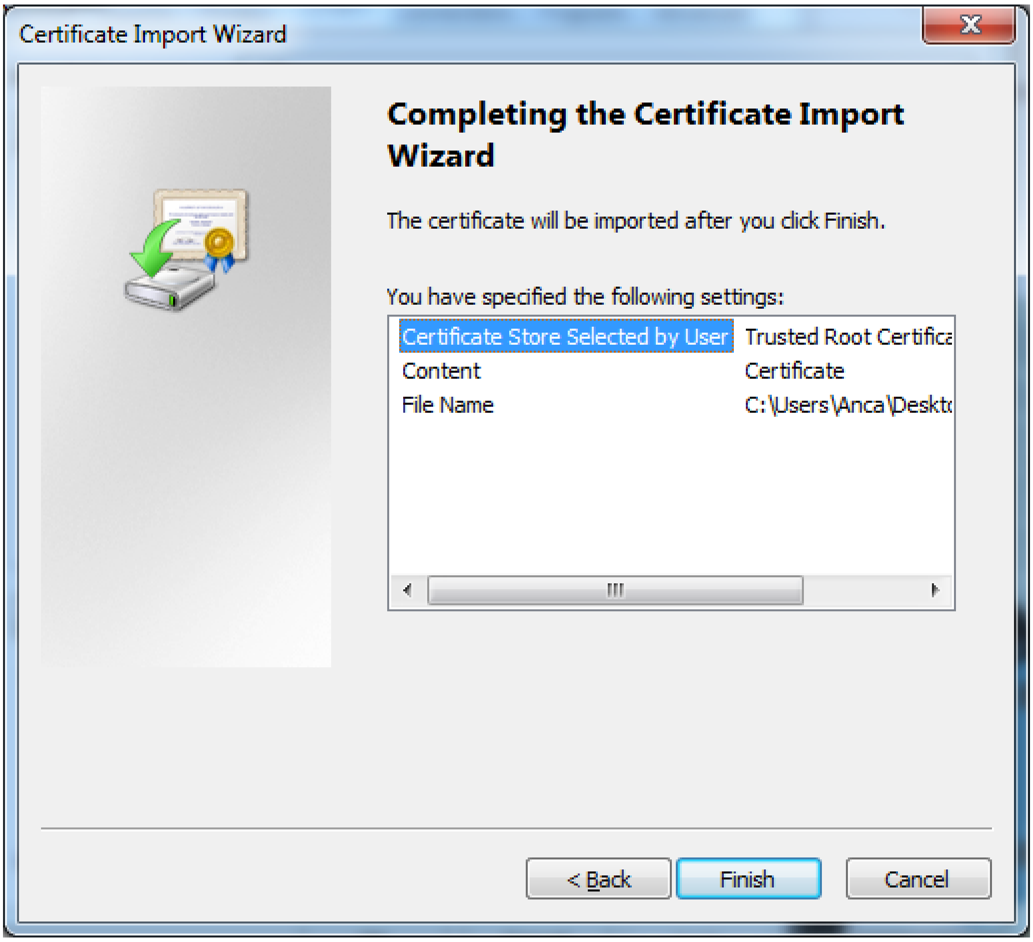
Windows can automatically select a certificate store, or you can specify a location for the certificate.

○ Automatically select the certificate store based on the type of certificate

● Place all certificates in the following store

Certificate store: Trusted Root Certification Authorities

Another “Completing the Certificate Import Wizard” pops up. Just click the “Finish” button.



Certificate Import Wizard

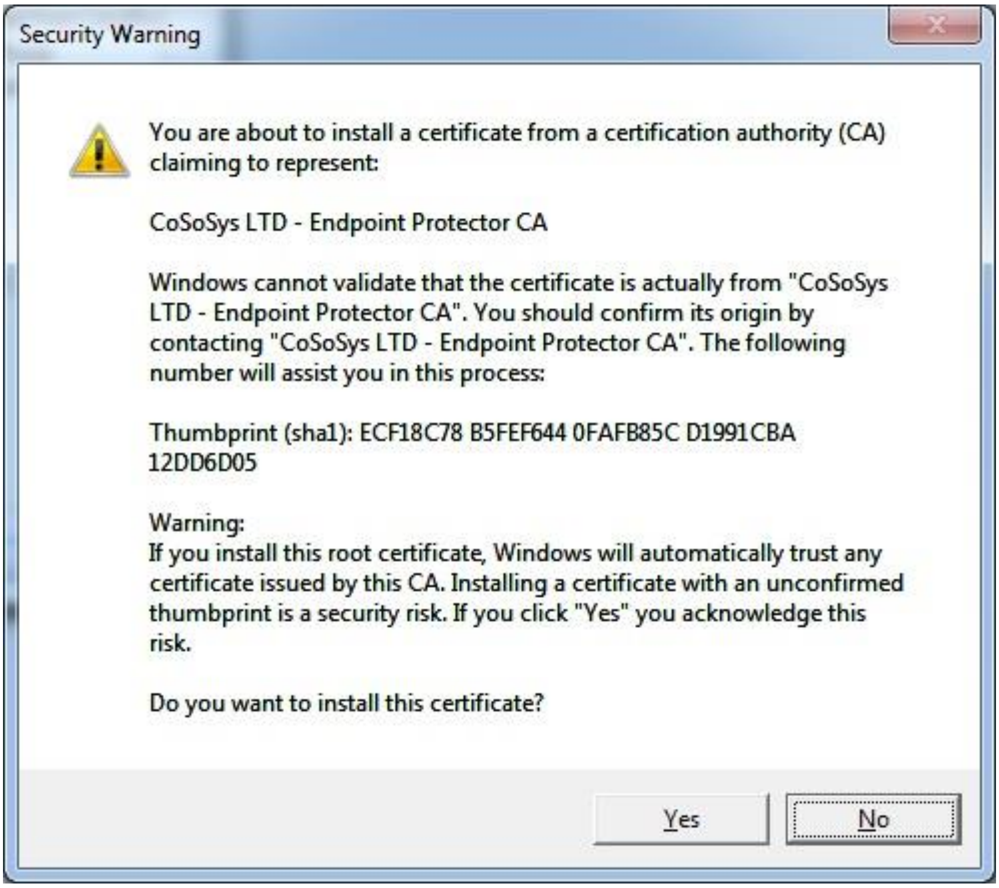
Completing the Certificate Import Wizard

The certificate will be imported after you click Finish.

You have specified the following settings:

Certificate Store Selected by User	Trusted Root Certifica
Content	Certificate
File Name	C:\Users\Anca\Deskto

A Security Warning window pops up. Just click “Yes”.



You are about to install a certificate from a certification authority (CA) claiming to represent:

CoSoSys LTD - Endpoint Protector CA

Windows cannot validate that the certificate is actually from "CoSoSys LTD - Endpoint Protector CA". You should confirm its origin by contacting "CoSoSys LTD - Endpoint Protector CA". The following number will assist you in this process:

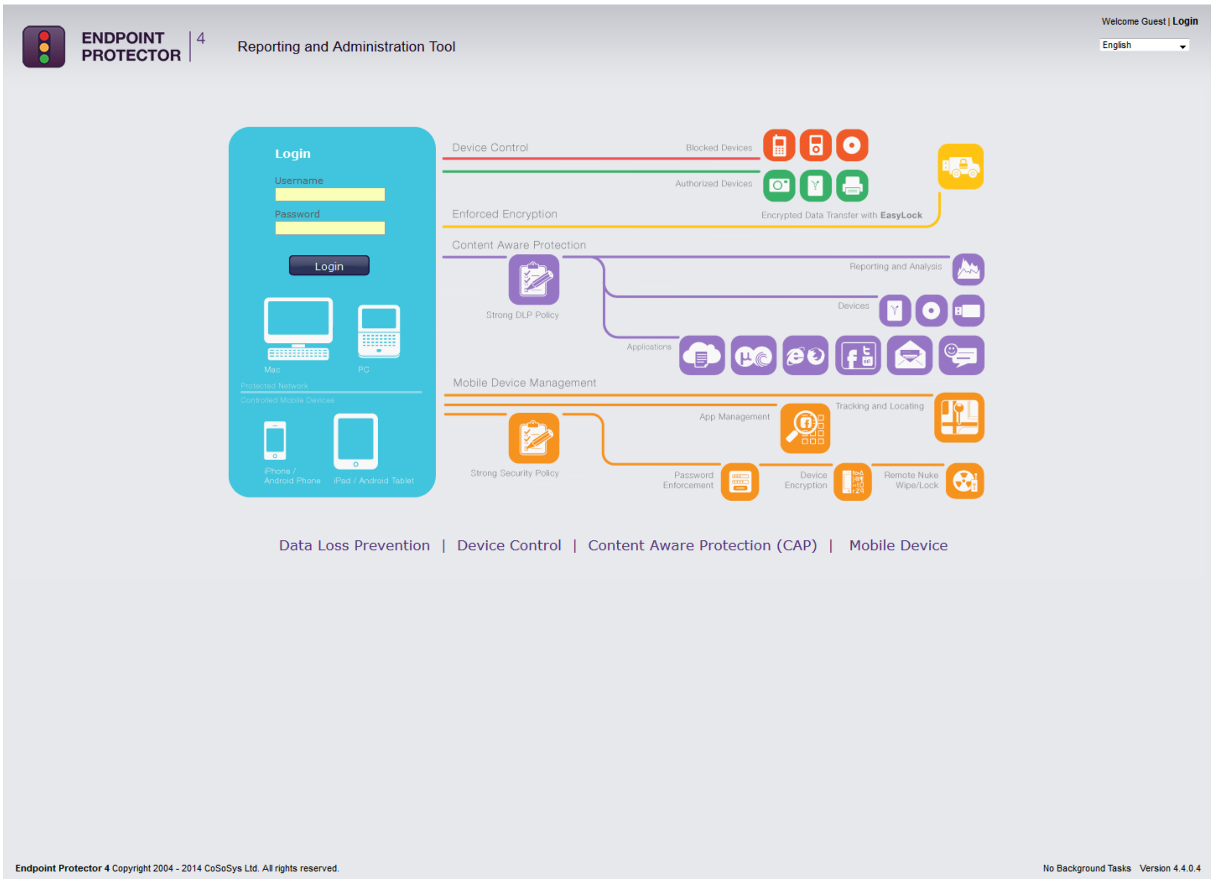
Thumbprint (sha1): ECF18C78 B5FEF644 0FAFB85C D1991CBA 12DD6D05

Warning:
If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.

Do you want to install this certificate?

You have now successfully installed the Certificate.

Close the Internet Explorer browser and try accessing the Endpoint Protector Administration and Reporting Tool IP address again.



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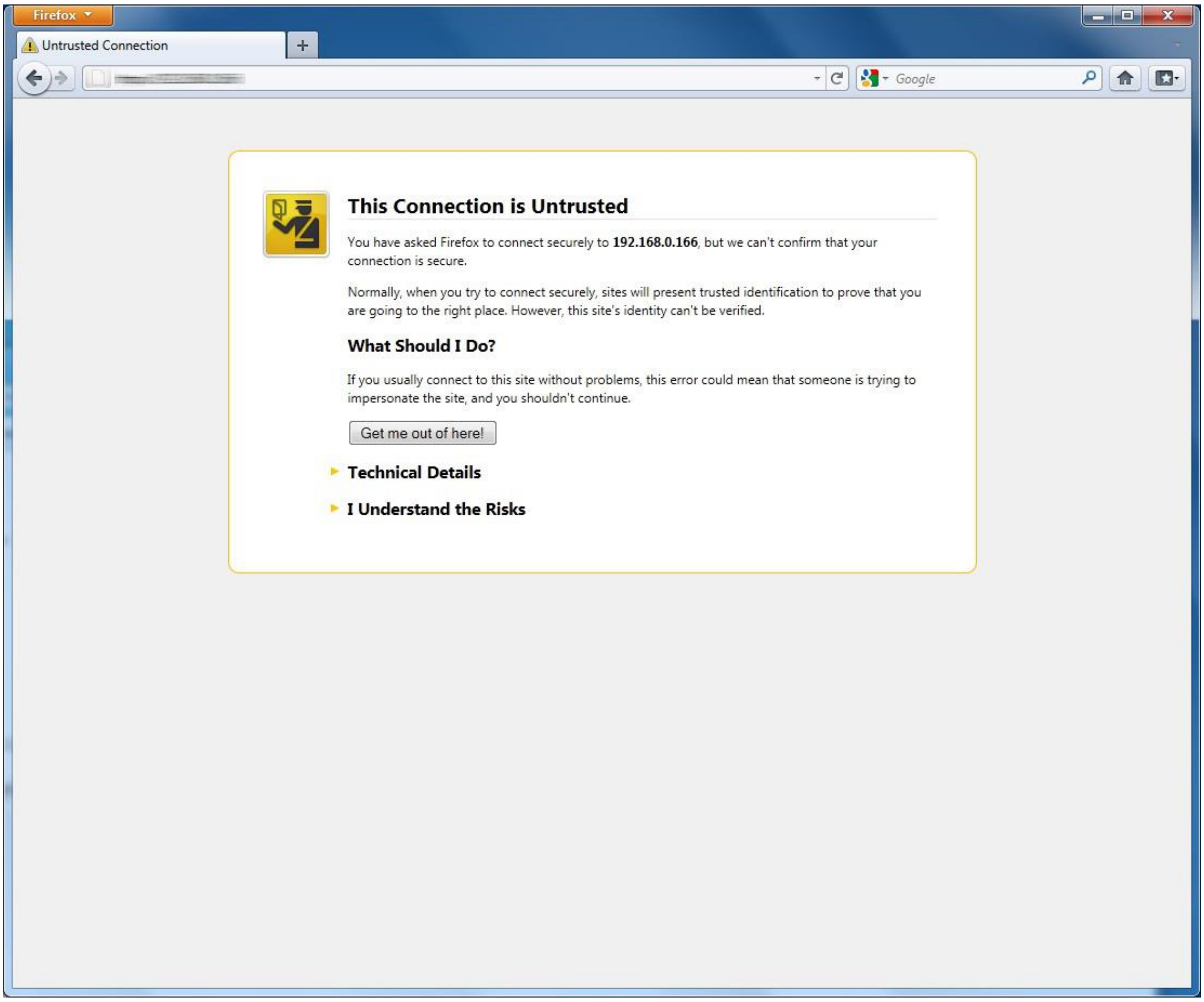
No Background Tasks Version 4.4.0.4

19.2. For Mozilla Firefox

Open the Browser.

Open Endpoint Protector Administration and Reporting Tool IP address. (Your Appliance static IP Address, example https://192.168.0.201).



This Connection is Untrusted

You have asked Firefox to connect securely to **192.168.0.166**, but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

What Should I Do?

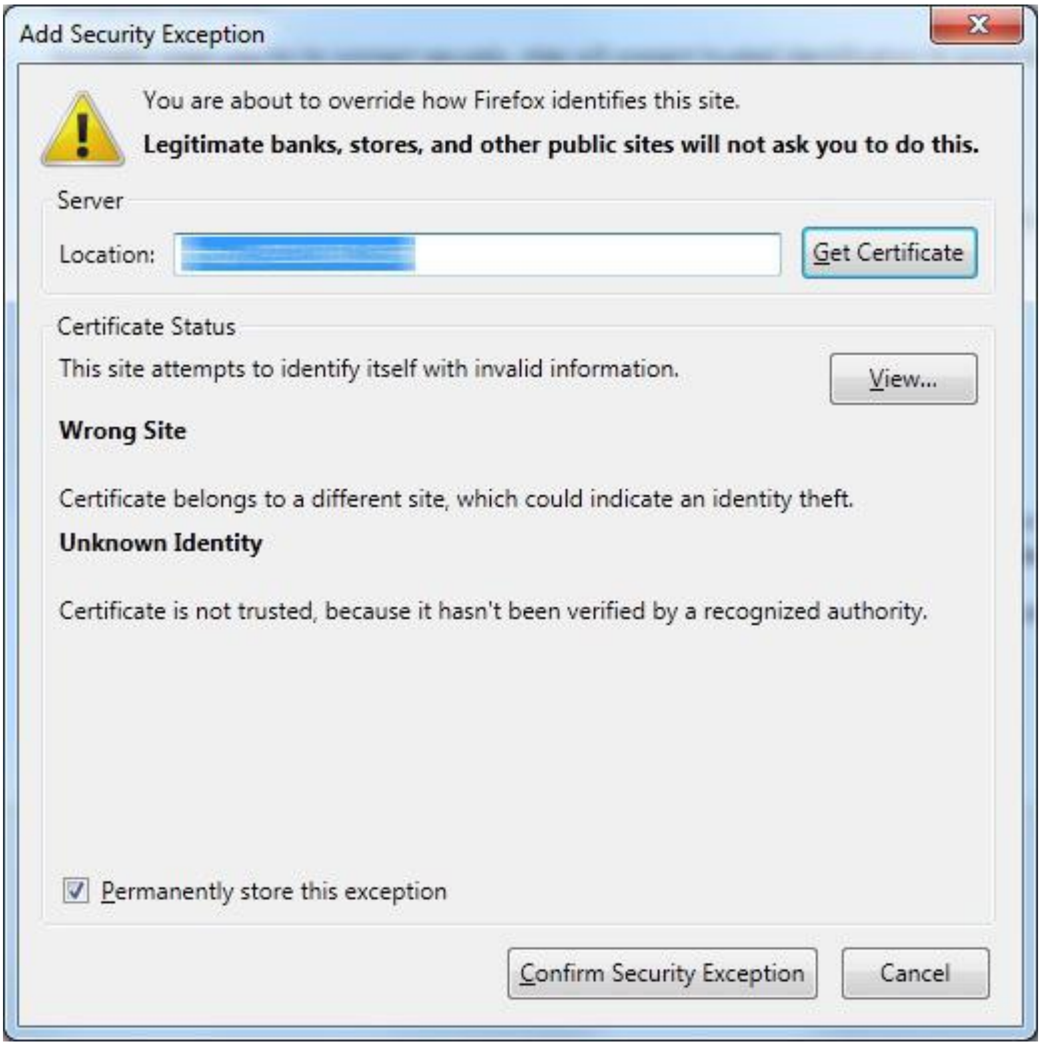
If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

- **Technical Details**
- **I Understand the Risks**

From the above screenshot This Connection is Untrusted, choose I Understand the Risks. Click Add Exception.

Security Warning window pops up.

Just click Get Certificate button and then the Confirm Security Exception button.



You are about to override how Firefox identifies this site.

Legitimate banks, stores, and other public sites will not ask you to do this.

Server

Location: [redacted]

Certificate Status

This site attempts to identify itself with invalid information.

Wrong Site

Certificate belongs to a different site, which could indicate an identity theft.

Unknown Identity

Certificate is not trusted, because it hasn't been verified by a recognized authority.

☑ Permanently store this exception

Close and restart the browser.

20. Terms and Definitions

Here you can find a list of terms and definitions that are encountered throughout the user manual.

20.1. Server Related

Appliance – Appliance refers to the Endpoint Protector Appliance which is running the Endpoint Protector Server, Operating System, Databases, etc.

Computers – refers to PC's, workstations, thin clients, notebooks which have Endpoint Protector Client installed.

File Tracing - this feature will track all data that was copied to and from prior authorized portable storage devices.

File Shadowing – this feature saves a copy of all, even deleted files that were used in connection with controlled devices on a network storage server.

Devices – refers to a list of known portable storage devices, ranging from USB storage devices to digital cameras, LTP storage devices and biometric devices.

Groups – can be groups of devices, users or computers. Grouping any of these items will significantly help the server administrators to easily manage rights and settings for them.

Departments – an alternative way to Groups to organize main entities (devices, users or computers), which involves also the administrators of Endpoint Protector.

20.2. Client Related

Endpoint – can be a Personal Computer, a Workstation you use at the office or a Notebook. An endpoint can call and be called. It generates and terminates the information stream.

Trusted Devices – portable storage devices that carry a seal of approval from the Endpoint Protector Server and can be utilized according to their level (1-4). For more information please see "Enforced Encryption with Trusted Devices" section.

Client - refers to the client user who is logged in on a computer and who facilitates the transaction of data.

Rights – applies to computers, devices, groups, users and global rights; it stands for privileges that any of these items may or may not possess.

Online computers – refers to PC's, Workstations and/or Notebooks which have Endpoint Protector Client installed and are currently running and are connected to the Endpoint Protector server.

Connected devices – are devices which are connected to online computers.

Events – are a list of actions that hold major significance in Endpoint Protector. There are currently 17 events that are monitored by Endpoint Protector:

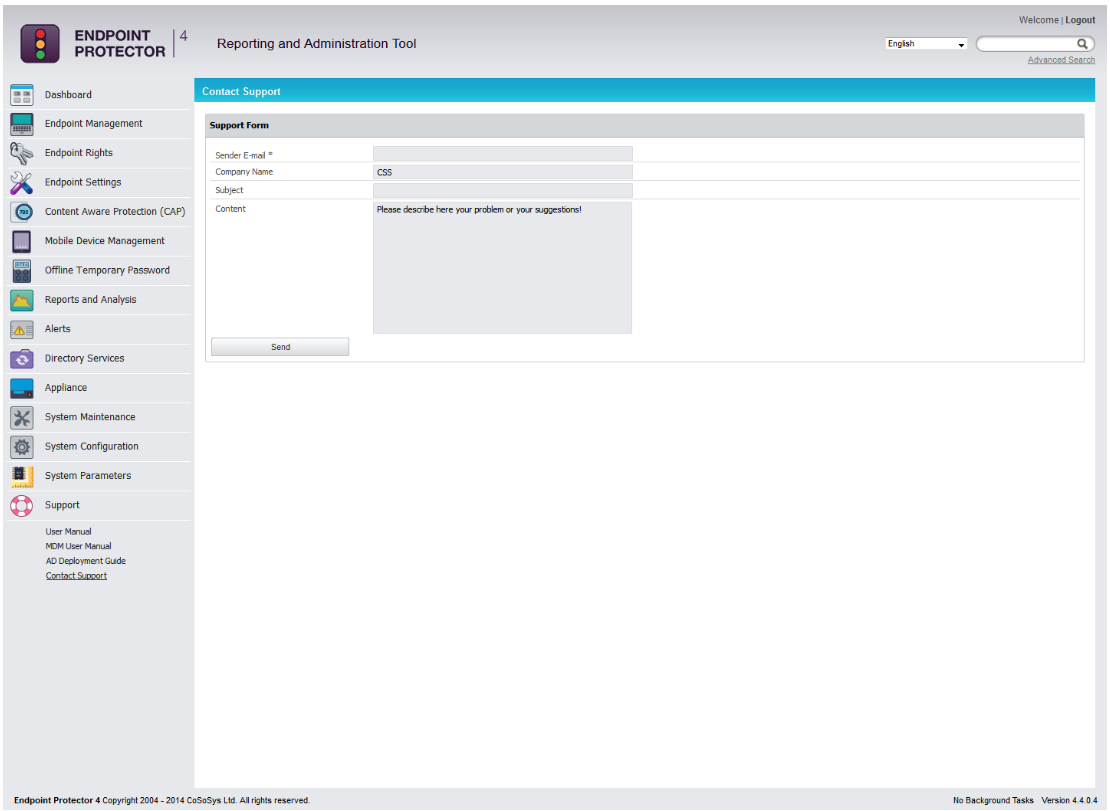
- Connected – the action of connecting a device to a computer running Endpoint Protector Client.
- Disconnected – the action of (safely) removing a device from a computer running Endpoint Protector Client.
- Enabled – refers to devices; the action of allowing a device access on the specified computer(s), group(s) or under the specified user(s).
- Disabled – refers to devices; the action of removing all rights from the device, making it inaccessible and therefore unusable.
- File read - a file located on a portable device was opened by a user or the file was automatically opened if the portable device was autorun by the operating system.
- File copy – a file was copied onto or from a portable device.
- File write – a file located on a portable device was opened and edited; changes were saved to the file.
- File renamed – a file located on a portable device has been renamed.

- File delete – a file located on a portable device has been deleted.
- Device TD – means that a device is registered as a Trusted Device and has access to files accordingly
- Device not TD – means that a device is not trusted and does not have automatic access to files
- Delete – refers to computers, users, groups, alerts and devices; the action of removing any of these items from the list
- Enable read-only – refers to devices; the action of allowing access to devices but disabling the ability to write on them. User(s) can copy files from device(s) but cannot write anything onto the device.
- Enable if TD Level 1-4 – refers to Trusted Devices; grants the device access if the device is a level one, two, three or four Trusted Device.
- Offline Temporary Password used – refers to computers, the action of temporarily allowing access to a specific device on a certain client computer.

21. Support

In case additional help, such as the FAQs or E-MAIL support is required, please visit our support website directly at http://www.cososys.com/help.html.

You can also write an E-MAIL to our Support Department under the Contact Us tab from the Support module.



Sender E-mail *

Company Name: CSS

Subject

Content: Please describe here your problem or your suggestions!

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No Background Tasks Version 4.4.0.4

One of our team members will contact you in the shortest time possible.

Even if you do not have a problem but miss some feature or just want to leave us general comment we would love to hear from you. Your input is much appreciated and we welcome any input to make computing with portable devices safe and convenient.

22. Important Notice / Disclaimer

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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