Security Management Server Virtual - AdminHelp v9.10

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Welcome

About the Online Help System

Version: 9.10

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Get Started

Get Started with Dell Data Security

- Log in to the Remote Management Console.
- Add Client Access Licenses, as needed.
- Add Domains from your directory server.
- If you require that users receive non-default policies upon activation, <u>modify policies</u> at the appropriate level.
- Add Groups and Users, as necessary.
- <u>Assign Administrators</u>, as necessary.
- Deploy clients.

Log In

To perform a given administrative procedure, an Administrator must first log in to the Remote Management Console using an appropriate Dell Administrator account.

The Security Management Server installs with a default Super Administrator user name (superadmin) and password (changeit) that you can use to add additional Dell Administrator accounts.

- 1. Open Internet Explorer and type http://server.domain.com:8443/webui/login.
- 2. If you are logging in for the first time, in the *Username:* field, enter **superadmin**. In the *Password:* field, enter **changeit**.

If you are not logging in for the first time, in the *Username*: field, enter your **Username** in one of the formats listed below. In the *Password*: field, enter <your_case-sensitive_password>.

user@domain.com (preferred format)

sAMAccountName, such as ismith

<domain>\<username> - You must specify your domain name as an alias to use this format. For more information, refer to Add Domains.

If you are not logging in for the first time, in the *Username:* field, enter your **Username** in one of the formats listed below. In the *Password:* field, enter <your_case-sensitive_password>.

3. Click Sign in.

To log out, see Log Out.

Log Out

Note: If you are an Account Administrator and make changes to your own account, you must log out and log back in to see the results.

 Click the gear icon in the top right corner of the Remote Management Console and select Log out from the drop-down menu.

Dashboard

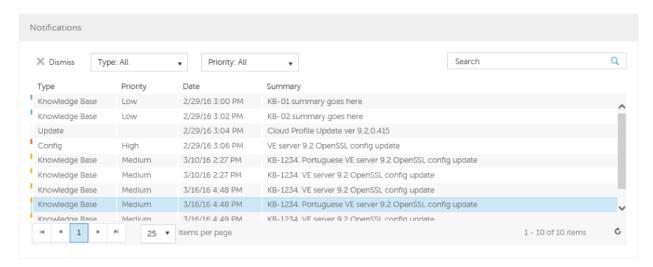
The Dashboard displays an overview of status information for your enterprise. You can access more detailed information directly from the Dashboard by clicking its statistics, graphs, and chart legends.

In the top right, select the Widgets menu to add or remove the following options:

- Notifications
- Protection Status
- Threat
- Protection History
- Inventory History
- Summary Statistics

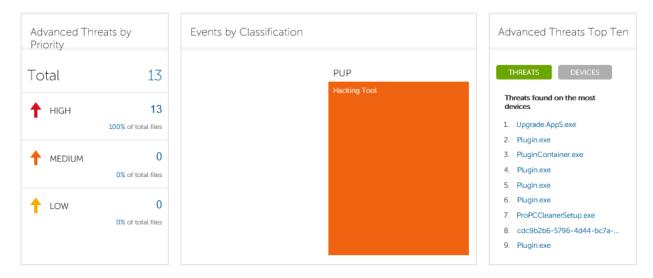
The images below reflect what you may see in the Dashboard. Content may vary based on the features installed and enabled on your Dell Security Management Server and endpoints.

Click an area below to view a description of the detail you can access by clicking the same area in your Dashboard.

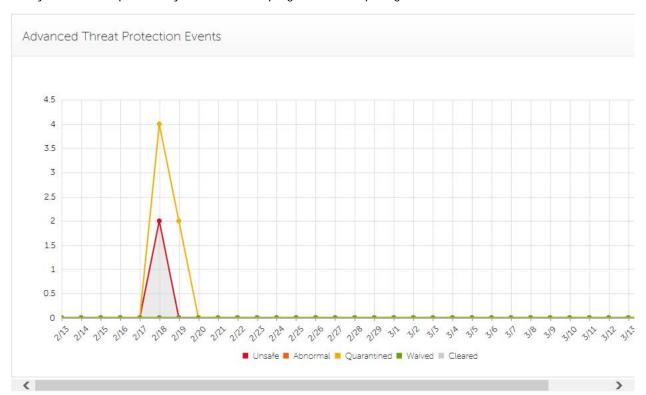








Note: An Advanced Threat Prevention event is not necessarily a threat. An event is generated when a recognized file or program is quarantined, safe listed, or waived. Threats are a category of events that are newly detected as potentially unsafe files or programs and require guided remediation.







Details		Endpoints (by platform)		
Domains	2	Windows	122	
Jser Groups	6	Mac	1	
Endpoint Groups	13	Mobile Device	0	
AD Users	5	All	123	
External Users	0			
Local Users	111			
Endpoints	123			
Protected	16			
Not-Protected	107			
Shields	106			
Managers	17			
Modified Policies	0			

Change the Superadmin Password

- 1. In the masthead at the top of the screen, click the gear icon and select **Change superadmin** password.
- 2. Enter the Current Password.
- 3. Enter the New Password.

The new password must be at least 6 characters, contain at least one capital letter and one of these characters: $-@\#\$\%^*()$ [?!{}[].

- 4. Confirm the New Password.
- 5. Click Update.

NOTE: After three failed login attempts, the superadmin account is locked for five minutes. To change these settings, see <u>Set or Change Account Lockout Settings</u>.

Components

Remote Management Console

The Remote Management Console allows administrators to monitor the state of endpoints, policy enforcement, and protection across the enterprise.

For increased security, the Remote Management Console separates administrator duties into administrator roles. For example, the Security Administrator can change and commit security policies for the entire enterprise, groups of users, or individual users.

The Remote Management Console has the following features.

- Centralized management of diverse mobile devices
- "No change", read-only integration with existing enterprise directory servers
- Role-based mobile security policy creation and management
- Administrator-assisted device recovery
- Separation of administrative duties
- Automatic distribution of mobile security policies
- Mobile device inventory
- Searchable, ODBC-compliant system logs
- Trusted paths for communication between components
- Unique encryption key generation and automatic secure key escrow
- · Centralized compliance auditing and reporting

Default Port Values

Dell Compatibility Server: TCP/1099 (closed)
Dell Compliance Reporter: HTTP(S)/8084

Dell Identity Server: HTTPS/8445 Dell Core Server: HTTPS/8888

Dell Policy Proxy: TCP/8000/8090

Dell Security Server: HTTPS/8443

Dell Forensic Server: HTTPS/8448

Client Authentication: HTTPS/8449 (If using Dell Encryption on a Server operating system)

Remote Management Console: HTTPS/8443

Client Communication if using Advanced Threat Prevention: HTTPS/TCP/443

Beacon server if using Data Guardian: HTTP/8446

NTP Time Synchronization: TCP and UDP/123 (For more information, refer to

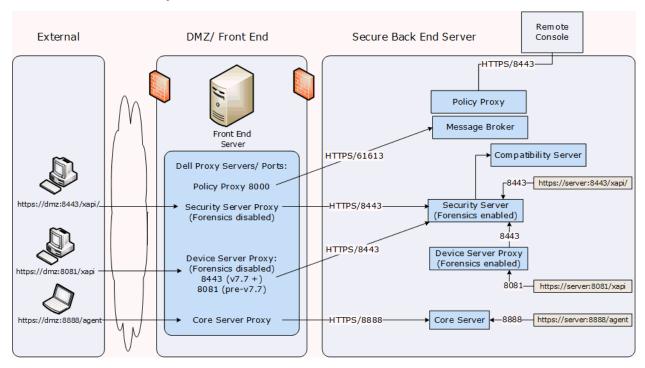
https://help.ubuntu.com/10.04/serverguide/NTP.html.)

Proxy Servers

Beginning with v8.1, the Proxy Server implementation, deployment and installation have been simplified. The new Proxy Server is a simplified web server with a single web application.

Types of Proxy Servers

- Security Server Proxy (defaults to 8443)
- Core Server Proxy (defaults to 8888)
- Device Server Proxy (defaults to 8081) see Note



Note: The purpose of Device Server Proxy is to support legacy Encryption clients (pre-v8.0) that communicate with port 8081. Newer Encryption clients (v8.0 and later) are configured by the client installer to communicate with the Security Server (or Security Server Proxy) on port 8443. The full Device Server is not installed in v8.1. The Device Server Proxy forwards all communications to the Security Server behind the firewall.

Policy Proxy

Policy Proxy serves as intermediary between the Security Management Server Virtual and the Encryption client, delivering information from each to the other.

Time Slotting

In order to prevent Security Management Server Virtual traffic jams, Policy Proxies use a configurable time slotting mechanism that allows them to independently choose well-distributed time slots for communicating with the Security Management Server Virtual.

Polling

On every poll, the endpoint authenticates, checks for policy updates, and uploads inventory. A successful authentication is required for the process to begin.

Poll Triggers

To poll, a user must be logged in. On the next user login, another poll will occur. The poll information needed is only available per user, and when that user is logged in.

Other times a poll occurs are as follows:

- Immediately upon login, after keys are unlocked.
- When a network status update is signaled by the operating system (cable plugged in, wireless network connected, VPN goes live).
- When the polling period elapses, as specified by policy.

Failed Poll Attempts

Policy Proxy poll attempts are based on a timer. When a poll attempt fails, the timer is reset. The length of time set for the next attempt is based on when the attempt failed. If the device misses a poll when the device is powered off, the timer will be triggered when the device is next powered on.

If the poll attempt failed while making the attempt, the time is set to one tenth the policy value for the polling interval. For example - If the polling interval is 100 minutes, then the next interval after a failed attempt will be 10 minutes. If it fails again, the next interval will still be 10 minutes. The interval will remain 10 minutes until a successful poll, after which it will return to 100 minute intervals.

General Information

- Policy Proxy is generally installed on only a few machines.
- Creates inventory information for the Security Management Server Virtual.
- Passes on to the Security Management Server Virtual device inventory it receives when the Encryption client successfully retrieves policies.
- Securely distributes security policies and encryption keys to devices via the network when contacted.
- May be in your DMZ.
- Always belongs to a group. By default, all Policy Proxies belong to the same group.

Navigate the Dell Server

Navigation

The Remote Management Console is a central control center that the administrator can use to deploy and monitor Dell Security for the enterprise. It consists of security and configuration settings that are applied through policy to groups called Populations.

The menu pane allows you to access the following:

Dashboard

The Remote Management Console opens to the Dashboard. The Dashboard provides graphs and statistics on endpoint and threat protection as well as summary statistics on populations and operating systems.

Populations

A population is a grouping for which security policies, settings, and actions can be configured. For example, you can apply security policies at the Enterprise, Domain, User Group, User, Endpoint Group, and Endpoint levels. For more information about Populations, see Populations. For more information about security policies, see Manage Security Policies.

Reporting

Reporting menu items provide reports on the protection state of your environment and endpoints, deployment issues that require action, and devices within the network. You can create and manage reports with the <u>Manage Reports</u> tool or by launching Compliance Reporter. This menu also allows you to collect, view, and export <u>audit events</u> to a SIEM server.

Management

Allows you to commit policies, perform recovery, and manage licenses, services, alerts, and Data Guardian external users.

Masthead icons

The following icons display on the masthead:



- (1) Logged in user The user icon and name of the user that is currently logged on.
- (2) Gear icon From the gear icon, you can <u>Change the Superadmin Password</u>, view information about the Security Management Server or Security Management Server Virtual, get Dell ProSupport contact information, and log out.
- (3) Question mark icon From the question mark icon, you can open a help topic that explains the current screen in the Remote Management Console.

Disconnected Mode

Disconnected mode allows a Security Management Server to manage Advanced Threat Prevention endpoints without client connection to the Internet or external network. Disconnected mode also allows the Dell

Server to manage clients without Internet connection or a provisioned and hosted Advanced Threat Prevention service. The Dell Server captures all event and threat data in Disconnected mode.

To determine if a Dell Server is running in Disconnected mode, click the gear icon at the top right of the Remote Management Console and select **About**. The About screen indicates that a Dell Server is in Disconnected mode, below the Dell Server version.

Disconnected mode is different than a standard connected installation of Dell Server in the following ways.

Client Activation

An install token is generated when the administrator uploads an Advanced Threat Prevention license, which allows the Advanced Threat Prevention client to activate.

Remote Management Console

The following items are <u>not available</u> in the Remote Management Console when Dell Server is running in Disconnected mode:

The following areas specific to Advanced Threat Prevention: Advanced Threats by Priority, (Advanced Threat) Events by Classification, Advanced Threats Top Ten, and Advanced Threat Prevention Events.

Enterprise > Advanced Threats tab, which provides a dynamic display of detailed events information for the entire enterprise, including a list of the devices on which events occurred and any actions taken on those devices for those events.

(Left navigation pane) **Services Management**, which allows enabling of the Advanced Threat Prevention service and Product Notifications enrollment.

The following item <u>has been added</u> to the Remote Management Console to support Disconnected Mode:

Enterprise > Advanced Threat Events tab, which lists events information for the entire enterprise based on information available in the Dell Server, even when running in Disconnected Mode.

Functionality

The following functionality is <u>not available</u> in the Remote Management Console when Dell Server is running in Disconnected mode:

Security Management Server upgrade, update, and migration

Security Management Server Virtual auto update - update must be done manually

Cloud profile update

Advanced Threat Prevention auto update

Upload of Unsafe or Abnormal Executable files for Advanced Threat Prevention analysis

Advanced Threat Prevention File upload and Log File upload

The following functionality differs:

The Dell Server sends the Global Safe List, Quarantine List, and Safe List to client computers.

The Global Safe List is imported to the Dell Server through the Global Allow policy. For more information, see the Global Allow policy.

The Quarantine List is imported through Quarantine List policy. For more information, see the Quarantine List policy.

The Safe List is imported through Safe List policy. For more information, see the Safe List policy.

Dashboard

Dashboard

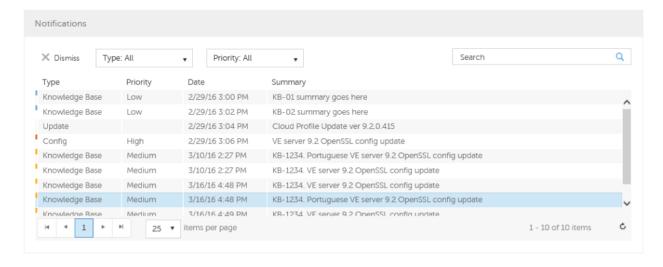
The Dashboard displays an overview of status information for your enterprise. You can access more detailed information directly from the Dashboard by clicking its statistics, graphs, and chart legends.

In the top right, select the Widgets menu to add or remove the following options:

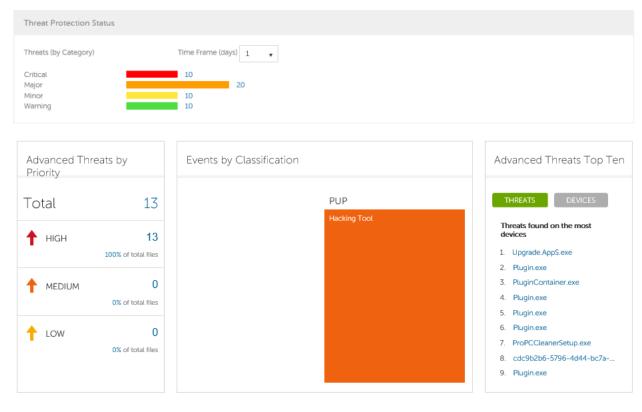
- Notifications
- Protection Status
- Threat
- Protection History
- Inventory History
- Summary Statistics

The images below reflect what you may see in the Dashboard. Content may vary based on the features installed and enabled on your Dell Security Management Server and endpoints.

Click an area below to view a description of the detail you can access by clicking the same area in your Dashboard.







Note: An Advanced Threat Prevention event is not necessarily a threat. An event is generated when a recognized file or program is quarantined, safe listed, or waived. Threats are a category of events that are newly detected as potentially unsafe files or programs and require guided remediation.







Summary Statistics				
Details		Endpoints (by platform)		
Domains	2	Windows	122	
User Groups	6	Mac	1	
Endpoint Groups	13	Mobile Device	0	
AD Users	5	All	123	
External Users	0			
Local Users	111			
Endpoints	123			
Protected	16			
Not-Protected	107			
Shields	106			
Managers	17			
Modified Policies	0			

Notifications List

The Notifications list provides a configurable summary of news, alerts, and events to display on the Dashboard or to be sent as email notifications. For more information, see <u>Dashboard Field Descriptions</u> and <u>Notification Management</u>.

Notification Types

You can select the notification types to include in the list. Notifications of the remaining types are hidden.

Types include:

Update - News of upcoming product updates. To view and receive product updates, you must enroll to receive them. Select **Services Management** > **Product Notifications**, click **On**, then click **Save Preferences**.

Config - News about configuration changes.

Knowledge Base - Summaries and links to knowledge base articles with in-depth technical information such as work-arounds and configuration methods.

Announcement - News of upcoming releases and new products.

License - Alerts when your volume license availability is low, or when your client access license count has been exceeded.

Threat Protection - A threat alert from Advanced Threat Prevention.

Advanced Threat Event - An event detected by Advanced Threat Prevention. The summary contains a listing of Critical, Major, Minor, Warning, and Information events, with links to more detailed information.

Threat Event - An event detected by Threat Protection.

Certificate - Certificate expiration notification.

DDP Server Exceptions - A Dell Server communication issue is impacting deliveries of the following notifications: Threat Protection, Update, Config, Knowledge Base, and Announcement.

After selecting one or more types, click in the neutral space above the list to apply the selections.

Select Clear selected items to reset the selections in this drop-down list.

Priority Levels

Note: Notification priority levels are not related to priority levels displayed on the Dashboard other than in the Notifications area.

Priorities are Critical, High, Medium, and Low. These priority levels are only relative to one another within a type of notification.

You can select the priority levels of notifications to include in the Dashboard Notifications area or email notifications lists. Notifications of the remaining priority levels are not included in the Dashboard or email notifications lists.

In the Dashboard, after selecting one or more priority levels, click in the neutral space above the drop-down list to apply your selections.

Select Clear selected items to reset the selections in this drop down list. All notifications will display (unless filtered elsewhere).

Endpoint Protection Status

In the Endpoint Protection Status section of the Dashboard, you can view endpoint status by platform: Windows, Mac, Mobile Devices, and All Platforms with a numeric value and bar chart that shows the numbers of protected and unprotected endpoints. A pie chart representing total protected and unprotected endpoints displays on the left.

Click a value to display a list of the endpoints represented in the value.

Protection Status

To access this page, click a link in the Dashboard's Endpoint Protection Status graph. You can click a specific platform type or All. The page provides protection details on the endpoints within that platform.

Platform - Windows, Mac, Mobile Devices, All, Protected, or Not Protected

Endpoint ID - Value that uniquely identifies the endpoint.

Protected - A green check mark indicates the endpoint is protected. The protection status of a Windows workstation is derived from the current encryption policies and encryption states of the Encryption client users, as well as the current device encryption policy and state of the endpoint. On the dashboard's Endpoint Protection Status graph, you can select endpoints by platform, protected endpoints, non-protected endpoints, or all endpoints. See Protected.

Shield Inventory Received - The date and time that the inventory was received by the Security Management Server and placed in the gueue.

Shield Inventory Processed - The date and time that the inventory was picked up from the queue and processed. (Note: If the Server is under load, the Processed and Received times may be different, but usually they will be the same.)

Agent Inventory Received - The date and time that the inventory was received by the Security Management Server and placed in the queue.

Agent Inventory Processed - The date and time that the inventory was picked up from the queue and processed (Note: If the Server is under load, the Processed and Received times may be different, but usually they will be the same.)

Shield - If encryption is installed on the endpoint, an icon displays.

Manager (Windows only) - If installed on the endpoint, an icon displays. This includes endpoints with activated PBA, HCA, SED, or BitLocker Manager.

Threat Protection Status

Threat Protection monitors the network for viruses, spyware, unwanted programs, suspicious communications through the firewall, and unsafe websites and downloads.

The Threat Protection Status pane shows threats by category: Critical, Major, Minor, and Warning. Each category is listed in a colored bar chart with a numerical value for the corresponding number of threats found during the time frame.

The time frame is selectable, in days: 1, 7, 14, 30, 60, and 90 days.

Click a Threat Category value to display a detailed list of threats included in the category.

Threat Protection Status for Severity Level

To access this page, click a value on the Dashboard's Threat Protection Status graph.

This page provides a detailed view of threats based on individual severity levels and devices that have a threat within that severity level. The columns list the specific counts for each type of threat event on a device.

Dropdown list of severity levels - Select a different option from the list (Critical, Major, Minor, Warning, Information). **Critical** is the most dangerous threat to the endpoint, and **Information** is just a notification of an event that is unlikely to harm the endpoint.

Dropdown list of days - Select a time frame option: 1, 7, 14, 30, 60, and 90 days.

Platform - The platform type

Device ID - Value that uniquely identifies the target device. Click a link to view information about that endpoint.

Event Count columns - For each device, lists the number for each of the following threat events:

Malware/Exploit - Includes counts for viruses, spyware, and unwanted programs. This could be exploited buffer overflows that seek to execute arbitrary code on a device or attempts to exploit browser vulnerabilities. Counts may include malware that executes from within memory space.

Web Filter - Includes threats related to web browsing and downloads.

Web Protection - Includes threats related to web browsing and downloads.

Firewall - Includes suspicious communications related to incoming or outgoing traffic and any attacks.

Uncategorized - Lists the number of threats that do not belong in other event counts.

Advanced Threat Prevention Events

The Advanced Threat Prevention Events pane displays a time line of Advanced Threat events over the course of a month, by file type as assigned by Advanced Threat Prevention.

Click a file type for details of the events of that type.

File types include:

Unsafe - A suspicious file with a high score (-60 to -100) likely to be malware

Abnormal - A suspicious file with a lower score (-1 to -59) less likely to be malware

Quarantined - A file that is moved from its original location, stored in the Quarantine folder, and prevented from executing on a specific device.

Waived - A file allowed to execute on a specific device.

Cleared - A file that has been cleared within the organization. Cleared files include files that are Waived, added to the Safe list, and deleted from the Quarantine folder on a device.

For more detail about events, see Advanced Threat Prevention Classifications and Advanced Threats Top Ten

Advanced Threats by Priority

Advanced Threats by Priority classifies suspicious files by priority levels of High, Medium, and Low. This prioritization helps administrators determine which threats and devices to address first. To view a list of threats with the corresponding priority level, click a value in the Advanced Threats by Priority field on the Dashboard.

Files are analyzed for the following attributes:

The file has a Cylance score greater than 80.

A score is assigned to each file that is deemed Abnormal or Unsafe. The score represents the confidence level that the file is malware. The higher the number, the greater the confidence.

- The file is currently running.
- The file has been run previously.
- The file is set to auto run.
- The file is detected by Execution Control.

Files are prioritized based on the number of the above attributes it has:

Low = 0-1 attributes

Medium = 2-3 attributes

High = 4-5 attributes

As an example, following is the analysis of three threats:

Threat 1

Attribute	Attribute Value	Score
Cylance score	90	+1
Currently running on any device	True	+1
Ever run on any device	True	+1
Set to auto run on any device	True	+1
Detected by Execution Control	False	+0
	Total score	5: High Priority

Threat 2

Attribute	Attribute Value	Score
Cylance score	20	+0
Currently running on any device	True	+1
Ever run on any device	False	+0
Set to auto run on any device	True	+1
Detected by Execution Control	False	+0
	Total score	2: Medium Priority

Threat 3

Attribute	Attribute Value	Score
Cylance score	20	+0
Currently running on any device	False	+0

	Total score	5: High Priority
Detected by Execution Control	True	+5
Set to auto run on any device	False	+0
Ever run on any device	False	+0

Advanced Threat Prevention Classifications

Advanced Threat Prevention can provide details on the static and dynamic characteristics of files. This allows administrators to not only block threats, but also to understand threat behavior in order to further mitigate or respond to threats.

Type of Threat

Threats are classified by the type of threat - Malware, Dual Use, and Potentially Unwanted Program.

Malware

If the file is identified as a piece of malware, the file should be removed or quarantined as soon as possible. Verified malware can be further subclassified as one of the following:

Subclass	Definition	Examples
Backdoor	Malware that provides unauthorized access to a system, bypassing security measures.	Back Orifice, Eleanor
Bot	Malware that connects to a central Command and Control (C&C) botnet server.	QBot, Koobface
Downloade	r Malware that downloads data to the host system.	Staged- Downloader
Dropper	Malware that installs other malware on a system.	
Exploit	Malware that attacks a specific vulnerability on the system.	
FakeAlert	Malware that masquerades as legitimate security software to trick the user into fixing fake security problems at a price.	Fake AV White Paper
Generic	Any malware that does not fit into an existing category.	
InfoStealer	Malware that records login credentials and/or other sensitive information.	Snifula
Ransom	Malware that restricts access to system or files and demands payment for removal of restriction, thereby holding the system for ransom.	CryptoLocker, CryptoWall
Remnant	Any file that has malware remnants post removal attempts.	
Rootkit	Malware that enables access to a computer while shielding itself or other files to avoid detection and/or removal by administrators or security technologies.	TDL, Zero Access Rootkit

Trojan	Malware that disguises itself as a legitimate program or file.	Zeus
Virus	Malware that propagates by inserting or appending itself to other files.	Sality, Virut
Worm	Malware that propagates by copying itself to another device.	Code Red, Stuxnet

Dual Use

Dual Use indicates the file can be used for malicious and non-malicious purposes. Caution should be used when allowing the use of these files in your organization. For example, while PsExec can be a useful tool for executing processes on another system, that same benefit can be used to execute malicious files on another system.

Subclass	Definition	Examples
Crack	Technologies that can alter (or crack) another application in order to bypass licensing limitations or Digital Rights Management protection (DRM).	
Generic	Any Dual Use tool that does not fit into an existing category.	
KeyGen	Technologies which can generate or recover/reveal product keys that can be used to bypass Digital Rights Management (DRM) or licensing protection of software and other digital media.	
	Technologies that track a user's online activities without awareness of the user by logging and possibly transmitting logs of one or more of the following:	
MonitoringToo	 user keystrokes email messages chat and instant messaging web browsing activity screenshot captures application usage 	Veriato 360, Refog Keylogger
Pass Crack	Technologies that can reveal a password or other sensitive user credentials either by cryptographically reversing passwords or by revealing stored passwords.	lOphtcrack, Cain & Abel
RemoteAccess	Technologies that can access another system remotely and administer commands on the remote system, or monitor user activities without user notification or consent.	Putty, PsExec, TeamViewer
Tool	Programs that offer administrative features but can be used to facilitate attacks or intrusions.	Nmap, Nessus, P0f

Potentially Unwanted Programs

The file has been identified as a Potentially Unwanted Program. This indicates that the program may be unwanted, despite the possibility that users consented to download it. Some PUPs may be permitted to run on a limited set of systems in your organization (EX. A VNC application allowed to run on Domain Admin devcies). A Dell Server administrator can choose to waive or block PUPs on a per device basis or globally quarantine or safelist based on company policies. Depending on how much analysis can be performed against a PUP, further subclassification may be possible. Those subclasses are shown below and will aid an Admin in determining whether a particular PUP should be blocked or allowed to run:

Subclass	Definition	Examples
Adware	Technologies that provide annoying advertisements (example: pop-ups) or provide bundled third-party add-ons when installing an application. This usually occurs without adequate notification to the user about the nature or presence of the add-on, control over installation, control over use, or the ability to fully uninstall the add-on.	Gator, Adware Info
Corrupt	Any executable that is malformed and unable to run.	
Game	Technologies that create an interactive environment with which a player can play.	Steam Games, League of Legends
Generic	Any PUP that does not fit into an existing category.	
HackingTool	Technologies that are designed to assist hacking attempts.	Cobalt Strike, MetaSp0it
Portable Application	Program designed to run on a computer independently, without needing installation.	Turbo
Scripting Too	I Any script that is able to run as if it were an executable.	AutoIT, py2exe
Toolbar	Technologies that place additional buttons or input boxes on-screen within a UI.	Nasdaq Toolbar, Bring Me Sports

Score

A **Score** is assigned to each file. Negative scores, from -1 to -100 denote files that are deemed Abnormal or Unsafe. The score represents the confidence level that the file is malware. The higher the negative number, the greater the confidence.

File Type

The file is assigned a type, based on the score.

File Types:

- Unsafe: A file with a score ranging from -60 to -100. An Unsafe file is one in which the Advanced Threat Prevention agent finds attributes that greatly resemble malware.
- Abnormal: A file with a score ranging from -1 to -59. An Abnormal file has a few malware attributes but fewer than an unsafe file, thus is less likely to be malware.

Note: Occasionally, a file may be classified as Unsafe or Abnormal even though the score displayed doesn't match the range for the classification. This could result from updated findings or additional file analysis after the initial detection. For the most up-to-date analysis, enable Auto Upload in the Device Policy.

Priority Level

The file is given a **Priority Level**. The priority level helps administrators determine which threats and devices to address first. For more information, see Advanced Threats by Priority.

Advanced Threats Top Ten

Security Management Server Virtual - AdminHelp v9.10

Click Threats to view the threats found on the largest number of devices.

Click a threat to display additional information about the threat. Details display on a new page.

Click Devices to view a list of devices that have the largest number of threats.

Click a device to display additional information about the device. Details display on a new page.

Endpoint Protection History

This graph gives a time line snapshot of the past 90 days of the total number of endpoints that are protected and total number that are not protected. This graph is especially useful during initial deployment, when moving toward complete protection.

The green bars represent the total number of protected endpoints. The red bars represent the total number of endpoints that are not protected.

Endpoint Inventory History

This graph gives a time line snapshot of the past 90 days of the total number of endpoints that have communicated with and sent inventory to the Security Management Server and the total number that have not sent inventory.

Summary Statistics

Summary Statistics provides a breakdown of the following:

- Domains
- User groups
- Endpoint groups
- AD users
- Local users
- Endpoints
- Protected
- Not protected
- Shields
- Managers
- Modified policies

Summary Statistics provides a breakdown of endpoints by platform, with a link to a detailed report for the selected platform:

- Windows
- Mac
- Mobile device
- All

Endpoint OS Report

To access this page, click a platform link on the Dashboard's Summary Statistics. If you click **All** and the Platform Report page opens, click view in the OS Report column.

OS/Version - Operating system name and version as reported in the endpoint's inventory

Count - Number of endpoints or devices

Shielded - Number of encrypted endpoints for that OS and version

Unshielded - Number of endpoints for that OS and version that are not encrypted

Platform Report - Click view for a report on all the platforms

Endpoint List - Click the icon to navigate to the Endpoints page and the list of endpoints for that OS and version

Platform Report

To access this page, click All on the Dashboard's Summary Statistics. If you click a specific platform link and access the Endpoint OS Report page, click view in the Platform Report column.

Platform - Windows, Mac, and MDM (Mobile Device Management)

Count - Number of endpoints or devices Platform Report for that platform

Shielded - Number of encrypted endpoints for that platform

Unshielded - Number of endpoints for that platform that are not encrypted

OS Report - Click view for a report based on each operating system/version for that platform

Endpoint List - Click the icon to navigate to the Endpoints page and the list of endpoints for that platform

Populations

Populations

A population is a grouping for which policies, settings, and actions can be configured.

To access a Populations page, click **Populations** in the left pane of the Remote Management Console and select a Population, for example, **Populations** > **Enterprise**.

Tabs available on each Populations page provide information, allow you to edit detail of the Population, and provide configuration options for that Population. The table lists the tabs available for each Population.

Populations	Security Policies	Details & Actions	Members	Settings	Key Server	Endpoint Groups	Endpoints	User Groups	Users	Admin	Threat Events	Advanced Threat Events
Enterprise	•										•	•
Domains	•	•	•	•	•							
User Groups	•	•	•							•		
Users	•	•					•	•		•		

Endpoint Groups	•	•	•							
Endpoints	•	•			•		•		•	•
Administrators		•						•		

To access the tabs for each Population:

- Enterprise Click Populations > Enterprise.
- Populations other than Enterprise Click a Population link, then search for or click a Domain, User Group, User, Endpoint Group, Endpoint, or Administrator link.

Note: The tabs available for an Administrator may vary, depending on the role.

Enterprise

View or Modify Enterprise-Level Policies

To view or modify Enterprise-level policies, follow these steps:

- 1. In the left pane, click Populations > Enterprise.
- 2. Click the Security Policies tab.
- 3. Select the technology group, such as Windows Encryption, or policy group, such as Policy-Based Encryption, to view or modify.

View Threat Events

Threats are categorized as Malware/Exploit, Web Filter, Firewall, or Uncategorized events. The list of threat events can be sorted by any of the column headers. You can view threat events for the entire enterprise or for a specific endpoint. To view threat events of a specific endpoint, from the Enterprise Threat Events tab, select the endpoint's device in the Device ID column.

To view threat events in the enterprise, follow these steps:

- 1. In the left pane, click Populations > Enterprise.
- 2. Click the Threat Events tab.
- 3. Select the desired severity level and time period for which to display events.

To view threat events on a specific endpoint, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Search or select a Hostname, then the Threat Events tab.

Manage Enterprise Advanced Threats

Advanced Threats tab

If the Advanced Threat Prevention service is provisioned and licenses are available, the Advanced Threats tab provides a dynamic display of detailed events information for the entire enterprise, including a list of the devices on which events occurred and any actions taken on those devices for those events. For information about provisioning the service, see Provision Advanced Threat Prevention Service.

To access the Enterprise Advanced Threats tab, follow these steps:

- 1. In the left pane, click Populations > Enterprise.
- 2. Select the Advanced Threats tab.

Information about events, devices, and actions are organized on the following tabs:

<u>Protection</u> - Lists potentially harmful files and scripts and details about them, including the devices on which the files and scripts are found.

<u>Agents</u> - Provides information about devices running the Advanced Threat Prevention client as well as the option to export the information or remove devices from the list.

Global List - Lists files in the Global Quarantine and Safe list and provides the option to move files to these lists.

Options - Provides a way to integrate with Security Information Event Management (SIEM) software using the Syslog feature as well as export Advanced Threat data.

<u>Certificate</u> - Allows certificate upload. After upload, certificates display on the Global List tab and can be Safe listed.

Tables on the tabs can be organized in these ways:

Add or remove columns from the table - Click the arrow next to any column header, select Columns, then select the columns you want to see. Clear the check box of columns you want to hide.

Sort the data - Click a column header.

Group by a column - Drag the column header up, until it turns green.

Filter based on data of one column - click the down-arrow on any column to display the context menu, and select Filter.

Advanced Threat Events tab

The Advanced Threat Events tab displays information about events for the entire enterprise based on information available in the Security Management Server.

The tab displays if the Advanced Threat Prevention service is provisioned and licenses are available.

To export data from the Advanced Threat Events tab, click the **Export** button and select **Excel** or **CSV** file format.

Note: Excel files are limited to 65,000 rows. CSV files have no size limit.

For a list of fields and filters on the tab, see Advanced Threat Events tab fields and filters.

Domains

Domains

On the Domains page, you can add a domain or search and select a domain to <u>View or Modify Domain</u> <u>Information</u>.

Add a Domain

To add a Domain, follow these steps:

- 1. In the left pane, click Populations > Domains.
- 2. On the Domains page, click Add.
- 3. Complete the fields on the Add Domains page.

Host Name - Enter the fully qualified host name or the computer name and domain portion of the hostname (for example, <computer_name>.<domainname>.com) for the enterprise directory server.

Port - Enter a port for the directory server. If you do not specify a port, the default port of 389 is used. The secure port, 636, uses an SSL connection instead of clear text. Global catalog ports are 3268 (clear-text) and 3269 (secure).

Distinguished Name - This field is populated when you tab from the completed Host Name field or refresh the URL. If necessary, correct the entry to reflect the domain (for example, DC=domainname, DC=com).

Secure LDAP - Select this check box for LDAPS.

User Name - Enter a User Name with rights for the domain to read and run queries on the enterprise directory server. The format *must* be UPN, such as user@domain.com. The credentials are domain-specific. Security Management Server Virtual does not fully observe trusted relationships between domains.

Password - Enter a Password with rights for the domain to read and run queries on the enterprise directory server. The credentials are domain-specific. Security Management Server Virtual does not fully observe trusted relationships between domains.

4. In the Domain Alias area, enter the domain name or other alias and click **Add**. It is recommended that you add a pre-Windows 2000 domain name as an alias. You may enter any UPN suffixes that are allowed for the domain and are configured in the enterprise directory server.

A Domain Alias is a mapping the Dell Server uses to select which domains to search to locate users that might match the suffix in the UPN.

5. Click Add Domain.

Users

Users are added through reconciliation. Reconciliation is the automated process the Dell Server uses to compare user data in the Dell Server database with user data in the enterprise directory server and update the Dell Server database when necessary.

In the left pane, click **Populations > Users** and then click a User Name, to view details about the user. Click the arrow next to a User Name to view the Common Name, sAM Account Name, and User Principal Name.

Add a User by Domain

- 1. In the left pane, click Populations > Users.
- 2. On the Users page, click Add Users by Domain.
- 3. In the Add Users by Domain dialog, select a domain from the pull-down list.
- 4. In the Full name field, enter the exact text for the user name or use the wildcard character (*). For best results, use non-wild card characters at the beginning of the filter (e.g., User* instead of *ser).
- 5. Select Common Name, Universal Principal Name, or sAMAccountName from the pull-down list.

A Common Name, Universal Principal Name, and sAMAccountName must be defined in the enterprise directory server for every user. If a user is a member of a Domain or Group but does not appear in the Domain or Group Members list in the Remote Management Console, ensure that all three names are properly defined for the user in the enterprise directory server.

6. Click Search. Depending on the size, this may take a few minutes to populate.

If the query is too large, a dialog prompts you to revise the query.

- 7. Select users from the directory user list to add to the Domain. The user names are added to the field below the list.
- 8. Click X to remove the user name from the field or click Add.

User Groups

On the User Groups page, you can add a user group, <u>edit User Group priority</u> or search and select a user group to <u>View or Modify User Group Policies and Information</u>.

Add a User Group

- 1. In the left pane, click Populations > User Groups.
- 2. On the User Groups page, click Add.
- 3. Select the type of User Group from the pull-down list: Active Directory User Group or ADMIN-DEFINED User Group
- 4. Select a domain from the pull-down list.
- 5. For Active Directory User Groups, follow these steps:
 - a. Enter the exact text for the Group Name or use the wildcard character (*).
 - b. Click Search. Depending on the size, this may take a few minutes to populate.
 - c. Select a group from the list to add to the Domain. The group name is added to the field below the list.

Click the X in the group name to remove the group name from the field.

- d. Click Add.
- 6. For ADMIN-DEFINED User Groups, follow these steps:
 - a. Enter the exact text for the Group Name or use the wildcard character (*).
 - b. Enter a Description for the group.
 - c. Click Add Group.

Notes:

Universal security groups are not supported.

Nested Groups are not supported.

Only User Groups with a Group Scope of Universal are supported for domains that connect through the Global Catalog Port.

Add Non-Domain Users

To add non-domain users, the non-domain activation feature can be enabled by contacting Dell ProSupport and requesting instructions.

View or Modify Domain Policies and Information

1. In the left pane, click Populations > Domains.

2. Search or select the appropriate Domain Name to display Domain Detail.

When you click a Domain, the Domain Detail page displays.

3. Click the tab that corresponds with the action you want to perform:

Security Policies - To view or modify policies of the Domain, click Security Policies.

Details & Actions - To view properties of the Domain, click Details & Actions

Members - To view, add, or modify information for Groups and Users within the Domain. For instructions on how to perform these tasks, refer to the appropriate topic:

Add Users to Domain

Add User Groups

View or Modify User Information

View or Modify User Group Information

Settings - To configure LDAP settings for the Domain, click **Settings**. Refer to <u>Add Domains</u> for instructions.

Domain Details & Actions

The Domain Details & Actions tab lists the properties of a domain.

To access the Domain Details & Actions tab, follow these steps:

- 1. In the left pane, click Populations > Domains.
- 2. Search or select a Domain Name, then the Details & Actions tab.

Details displayed on the Domain Details & Actions tab:

Domain Name - Name of the domain server. This should match the domain name in the title of the page.

Location - The location (path) of the domain within the enterprise structure. This information is derived from the fully qualified host name or the computer name and domain portion of the hostname entered when the domain was added. Example: /com/enterpriseserver

LDAP Url - URL to the active directory. This field is populated after adding the domain. The information is derived from the completed Host Name field.

Example - LDAP://domainname.com:portnumber/DC=domainname,DC=com

To configure LDAP settings for the domain, click the **Settings** tab.

Status - Describes the health of the domain server (Good, Fair, Poor).

Domain Members

This page allows you to view, add, or modify information for Groups and Users within the Domain.

To access the Domain Members tab, follow these steps:

- 1. In the left pane, click Populations > Domains.
- 2. Search or select a Domain Name, then the Members tab.

From this tab, you can perform these actions:

Add Users to Domain - Allows you to add users by domain

Add Group - Allows you to add a user group by domain

Select to view the following information about Groups & Users, Users only, or Groups only:

User/Group - Each user or user group in the Domain. Click an entry to view details.

Distinguished Name

CN is the common name, either a user or group name.

OU is the organizational unit name, for example, Dallas.

DC are domain components, for example, DC=Organization, DC=com

Common Name - For a user, the user name; for a group, the group name

User - Column displays a green checkmark

Group - Column displays a green checkmark

Domain Settings

This page allows you to configure or modify LDAP settings for the Domain.

To access the Domain Settings tab, follow these steps:

- 1. In the left pane, click Populations > Domains.
- 2. Search or select a Domain Name, then the Settings tab.

On the Domain Settings tab, you can view this information:

Directory URL - Lists the current URL for the enterprise directory server. If you modify the settings, click Refresh URL.

Host Name - The fully qualified host name or the computer name and domain portion of the hostname (for example, <computer_name>.<domainname>.com) for the enterprise directory server.

Port - The port for the directory server. If you do not specify a port, the default port of 389 is used. The secure port, 636, uses an SSL connection instead of clear text. Global catalog ports are 3268 (clear-text) and 3269 (secure).

Distinguished Name - This field is populated when you tab from the completed Host Name field or refresh the URL. If necessary, correct the entry to reflect the domain (for example, DC=domainname, DC=com).

Secure LDAP - Select this check box for LDAPS.

User Name - The User Name with rights to read and run queries on the enterprise directory server. The format *must* be UPN, such as user@domain.com.

Password - Enter a Password with rights to read and run queries on the enterprise directory server.

Alias - A mapping that the Security Management Server uses to select which domains to search to locate users that might match the suffix in the UPN. The domain name or other alias. It is recommended that you add a pre-Windows 2000 domain name as an alias. You may enter any UPN suffixes that are allowed for the domain and are configured in the enterprise directory server.

Click Add, and the entry populates the field below.

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Select an alias in the list, and click Remove Selected.

Update Domain - Click to update changes.

Domain Key Server

This page allows you to view or modify components for use with Kerberos Authentication/Authorization.

Account - Enter an account name.

Click Add Account, and the entry populates the field below.

Select an account in the list, and click Remove Selected.

To access the Domain Key Server tab, follow these steps:

- 1. In the left pane, click Populations > Domains.
- 2. Search or select a Domain Name, then the **Key Server** tab.

User Groups

User Groups

On the User Groups page, you can add a user group, <u>edit User Group priority</u> or search and select a user group to <u>View or Modify User Group Policies and Information</u>.

Add a User Group

- 1. In the left pane, click Populations > User Groups.
- 2. On the User Groups page, click Add.
- Select the type of User Group from the pull-down list: Active Directory User Group or ADMIN-DEFINED User Group
- 4. Select a domain from the pull-down list.
- 5. For Active Directory User Groups, follow these steps:
 - a. Enter the exact text for the Group Name or use the wildcard character (*).
 - b. Click Search. Depending on the size, this may take a few minutes to populate.
 - c. Select a group from the list to add to the Domain. The group name is added to the field below the list.

Click the X in the group name to remove the group name from the field.

- d. Click Add.
- 6. For ADMIN-DEFINED User Groups, follow these steps:
 - a. Enter the exact text for the Group Name or use the wildcard character (*).
 - b. Enter a Description for the group.
 - c. Click Add Group.

Notes:

Universal security groups are not supported.

Nested Groups are not supported.

Only User Groups with a Group Scope of Universal are supported for domains that connect through the Global Catalog Port.

Remove User Groups

- 1. In the left pane, click Populations > User Groups.
- 2. Click a Group Name link or enter a filter to search for available Groups.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

- 3. Select a row to highlight it.
- 4. At the top, click Delete.

Note: As another option, click a Group Name link and select the **Details & Actions** tab. Click **Remove Group**.

If you remove a User Group that has Administrative privileges and later re-add the Group, it remains an Administrator Group.

Find User Groups

- 1. In the left pane, click Populations > User Groups.
- 2. Enter a filter to search for available Groups.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

3. Click Search.

A Group or list of Groups displays, based on your search filter.

View or Modify User Group Policies and Information

- 1. In the left pane, click Populations > User Groups.
- 2. Search or select the appropriate Group Name to display User Group Detail.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

When you click a Group Name, the User Group Detail page displays.

3. Click the tab that corresponds with the action you want to perform:

Security Policies - To view or modify policies of the Group, click Security Policies.

Details & Actions - To view properties of the Group, click **Details & Actions**. Viewable information includes:

Group Name: Group1 (Domain\Group1)

Distinguished Name: CN=Group1, OU=Dallas, DC=Organization, DC=com

Common Name: Group1

Last Modified in Directory - date and timestamp

Last Reconciled - date and timestamp

Members - To view or modify the information of a User in the Group, click Members. The list of Users in the Group displays. Click a User to view the User's Security Policies, Details & Actions,

Endpoints, User Groups, and Admin. For instructions on how to view or modify User information, refer to View or Modify User Information.

Admin - To view, assign, or modify Administrator Roles assigned to the Group, click **Admin**. Select or deselect Administrator Roles to modify Administrator Roles assigned to the Group. For more information about privileges available to each Administrator Role, refer to <u>Administrator Roles</u>.

4. If modified, click Save.

VDI User Policies

To manage policy for users in a VDI environment, create a Windows Domain group, associate domain users with that group, and then import the group into Security Management Server. This allows Dell Server to manage the users and their policies.

Policy settings differ, based on whether persistent or non-persistent VDI is deployed in the environment. For an explanation of the differences between persistent and non-persistent VDI, see Persistent vol.

Policy and Configuration Requirements for VDI Users

The policy requirements below are for VDI Users running Advanced Threat Prevention. The list includes only policies that are significant for VDI Users. VDI Endpoint Group policy settings must also meet certain requirements. See Policy and Configuration Requirements for VDI Endpoint Groups.

Note: Ensure that you turn off Advanced Threat Prevention Agent Auto Update. In the left pane of the Remote Management Console, select Management > Services Management > Advanced Threats - Agent Auto Update, then select Off.

Note: With Persistent VDI Groups, ensure that roaming user profiles are configured.

These policy and configuration settings for VDI Users must be configured before VDI client activation:

Technology	Category	Policy or Setting	Persistent VDI Group setting	Non-Persistent VDI Group setting
Windows Encryption	Policy-Based Encryption	Policy-Based Encryption	On	Off
Windows Encryption	Policy-Based Encryption	Encrypt Outlook Personal Folders		
Windows Encryption	Policy-Based Encryption	Encrypt Temporary Files	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Encrypt Temporary Internet Files	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Encrypt User Profile Documents	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Secure Post-Encryption Cleanup	Single-pass Overwrite	Single-pass Overwrite
Windows Encryption	Policy-Based Encryption	Force Logoff/Reboot on Policy Updates	Selected	Not Selected
Removable Media Encryption	Windows Media Encryption	Windows Media Encryption	On	On
Removable Media	Windows Media Encryption	EMS Scan External Media	Not Selected	Not Selected

Encry	/ption		

User Group Details & Actions

The User Group Details & Actions tab lists the properties of a selected user group.

- 1. In the left pane, click Populations > User Groups.
- 2. Search or select a Group Name, then the **Details & Actions** tab.

Remove Group

The Remove Group command permanently removes this user group from the Security Management Server.

Details:

Group Name - Name of the user group <user group>(<domain name>\<user group>). This should match the user group name in the title of the page.

Distinguished Name - CN=Group1, OU=Dallas, DC=Organization, DC=com

CN is the common name

OU is the organizational unit name

DC are domain components

Common Name - non-technical name of the user group

Last Modified - Date/time stamp of the last time this information changed.

Last Reconciled - Date/time stamp of the last time this information was reconciled.

User Group Members

This page displays information about each user within the user group.

- 1. In the left pane, click Populations > User Groups.
- 2. Search or select a Group Name, then click the numeral in the Members column.

User - Each user in that user group

Distinguished Name - CN=Group1, OU=Dallas, DC=Organization, DC=com

CN is the common name

OU is the organizational unit name

DC are domain components

Common Name - non-technical name of the user group

Add Users to the Group

- 1. On the Members tab, click Add Users to Group.
- 2. Search or select a user, then click the box to the left of the User Name.
- 3. Click Add Selected Users to Group.

OR

Select Upload Multiple User from File, then click Browse to select a CSV file and click Upload.

- 4. Valid CSV requirements:
 - The file must be in valid CSV format and contain a maximum of 999 endpoints.
 - The first column must contain valid fully qualified host names. All columns except the first column are ignored.
 - Only activated endpoints are added to the group.

Remove Users from the Group

- 1. In User Group Detail, search or select a user, then click the box to the left of the User Name.
- 2. Click Remove Users from Group.
- 3. Click OK.

User Group Admin

This page allows you to assign, modify, or view Administrator roles for a group.

- 1. In the left pane, click Populations > User Groups.
- 2. Search or select a Group Name, then the Admin tab.

Administrator Roles - Assign or modify roles for a group membership and click **Save**.

Delegated Roles - Delegate Administrator rights for the Group to a User.

Related topics:

Administrator Roles

Assign or Modify Administrator Roles

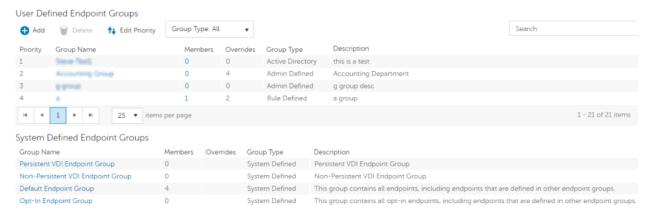
Delegate Administrator Roles

Edit Group Priority

The Group priority feature is used to determine policy precedence for effective policies that affect multiple groups. Group priority creates a weight associated with the specific group it is assigned to, and that weight is used to determine which policy setting is applied to an endpoint that is a member of more than one Endpoint Group when policy settings differ between those groups. Policy overrides are used from the group with higher priority when two (or more) separate groups have different priority levels.

Edit Endpoint Group Priority

Endpoint Group Priority can be changed only for Rule-Defined, Admin-Defined, and Active Directory Groups. System-Defined Group priority cannot be modified. In general, the Endpoint Group at the top of the list of Endpoint Groups has highest priority. The Endpoint Group at the bottom of the list has lowest priority.



Precedence Ranking

The System Defined Non-Persistent VDI Endpoint Group has the highest priority level, followed by the Persistent VDI Endpoint Group.

Order of priority:

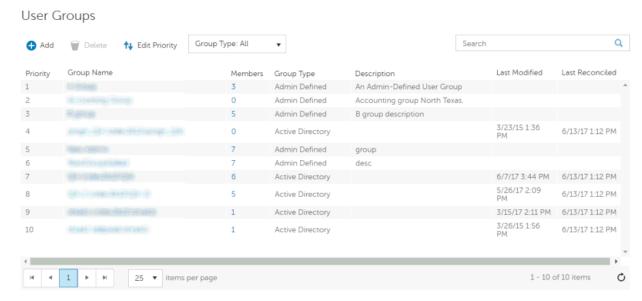
- 1. Non-Persistent VDI Endpoint Group
- 2. Persistent VDI Endpoint Group
- 3. Highest ranked Active Directory/Rule-Defined/Admin-Defined Endpoint Group
- Second and subsequent highest ranked Active Directory/Rule-Defined/Admin-Defined Endpoint Groups
- 5. Opt-in Endpoint Group
- 6. Default Endpoint Group

To change Active Directory/Rule-Defined/Admin-Defined Endpoint Group priority:

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Click Edit Priority.
- 3. Select the row of the appropriate group and drag it to the location in the list of Endpoint Groups that reflects its new priority level.
- Click Save.

Edit User Group Priority

The User Group at the top of the list of User Groups has highest priority. The User Group at the bottom of the list has lowest priority.



To edit User Group priority:

- 1. In the left pane, click Populations > User Groups.
- 2. Click Edit Priority.
- 3. Select the row of the appropriate group and drag it to the location in the list of Endpoint Groups that reflects its new priority level.
- 4. Click Save.

Assign or Modify Administrator Roles

From the Administrators page, you can view or modify existing Administrator privileges.

To view or modify existing Administrator privileges, follow these steps:

- 1. In the left pane, click Populations > Administrators.
- Search or select the row that displays the Username of the appropriate Administrator to display User Detail.
- 3. View or modify administrator roles in the pane at the right.
- 4. Click Save.

Note: Dell recommends assigning Administrator Roles at the Group level rather than at the User level.

To view, assign, or modify Administrator Roles at the Group level, follow these steps:

- 1. In the left pane, click Populations > User Groups.
- 2. Search or select a Group Name, then the Admin tab.

The User Group Detail page displays.

- 3. Select or deselect Administrator Roles assigned to the Group.
- 4. Click Save.

If you remove a Group that has Administrative privileges and later re-add the Group, it remains an Administrator Group.

To view, assign, or modify Administrator Roles at the User level, see <u>User Admin</u>.

Related topics:

Administrator Roles

User Admin

Delegate Administrator Roles

View Reconciliation Date

To view the date and time a User Group's or User's information was last reconciled with Active Directory, click the Details & Actions tab for the Group or User, and refer to Last Reconciled. For instructions, refer to View or Modify User Group Policies and Information and View or Modify User Policies and Information.

View Policy Proxy State

The Remote Management Console tracks the Policy Proxy's Policy Updating state.

- 1. In the left pane, click Populations > Endpoints.
- 2. Select an endpoint type, for example, Workstation or Mobile Device.
- 3. If you know the full Hostname of the endpoint, enter it into the Search field and click the Search icon.

For Windows and Mac, enter the full Hostname of the endpoint if you know it. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the user's email address.

If you do not know the full Hostname or user email address, scroll through the list of available endpoints to locate the endpoint.

- 4. Click an endpoint in the list to display the Endpoint Detail.
- 5. Click the **Details & Actions** tab of the endpoint for which you want to view information.

Users

Users

Users are added through reconciliation. Reconciliation is the automated process the Dell Server uses to compare user data in the Dell Server database with user data in the enterprise directory server and update the Dell Server database when necessary.

In the left pane, click **Populations > Users** and then click a User Name, to view details about the user. Click the arrow next to a User Name to view the Common Name, sAM Account Name, and User Principal Name.

Add a User by Domain

- 1. In the left pane, click Populations > Users.
- 2. On the Users page, click Add Users by Domain.

- 3. In the Add Users by Domain dialog, select a domain from the pull-down list.
- 4. In the Full name field, enter the exact text for the user name or use the wildcard character (*). For best results, use non-wild card characters at the beginning of the filter (e.g., User* instead of *ser).
- 5. Select Common Name, Universal Principal Name, or sAMAccountName from the pull-down list.

A Common Name, Universal Principal Name, and sAMAccountName must be defined in the enterprise directory server for every user. If a user is a member of a Domain or Group but does not appear in the Domain or Group Members list in the Remote Management Console, ensure that all three names are properly defined for the user in the enterprise directory server.

6. Click Search. Depending on the size, this may take a few minutes to populate.

If the query is too large, a dialog prompts you to revise the query.

- 7. Select users from the directory user list to add to the Domain. The user names are added to the field below the list.
- 8. Click X to remove the user name from the field or click Add.

Remove Users

In general, a user cannot be removed in the Remote Management Console. Instead, you must remove the user from Active Directory.

Find Users

- 1. In the left pane, click Populations > Users.
- 2. Do one of these:
 - Enter the user name or a filter in the Search field and click the search icon.

Note: To search, you can enter Common Name, Universal Principal Name, or sAMAccountName. You can use the wildcard character (*) but it is not needed at the beginning or end of the text.

- Scroll through the User Name list.
- 3. Click a link in the User Name column.

The User Detail page opens, displaying the Security Policies tab.

Deactivate/Suspend Users

If the user you are deactivating is no longer associated with your organization, be sure to publish appropriate *Current Shield State* policy with a value other than *Activate*, and ensure that the policy commit is complete and successful prior to removing the user from your enterprise directory server. The user does not need to be in your enterprise directory server, but the Policy Proxy does need to deliver the policy to their device in order for it to take effect.

Best Practice - Deleting users from the enterprise directory server is not recommended. If a user leaves the organization, the account should be moved to a disabled group. With that said, if a deletion occurs, the user is simply marked "removed" in the Security Management Server Virtual, rather than deleted. The user will not display in the Remote Management Console, but their keys and other information are still available in the database.

- 1. In the left pane, click Populations > Users.
- 2. Click a User Name link or enter a filter to search for available users.

Note: To Search, you can enter Common Name, Universal Principal Name, or sAMAccountName. The wildcard character (*) may be used but is not required at the beginning or end of the text.

- 3. On the User Detail > Security Policies tab under the Windows Encryption technology group, click the Policy-Based Encryption policy group.
- 4. Click Show advanced settings.
- 5. Change the Current Shield State policy to Suspend.
- 6. Click Save.
- 7. Commit Policies.

To reactivate a deactivated Windows user, follow the instructions in Reinstate Suspended Users.

Reinstate Suspended Users

To reinstate a suspended user, follow these steps:

- 1. In the left pane, click Populations > Users.
- 2. Click a User Name link or enter a filter to search for available users.

Note: To Search, you can enter Common Name, Universal Principal Name, or sAMAccountName. The wildcard character (*) may be used but is not required at the beginning or end of the text.

- 3. On the User Detail > Security Policies tab under the Windows Encryption technology group, click the Policy-Based Encryption policy group.
- 4. Click Show advanced settings.
- 5. Change the *Current Shield State* policy to **Activate**.
- 6. Click Save.
- 7. Commit Policies.

Repeat these steps for each type of device the user was suspended from.

8. To reinstate a suspended Dell Encryption user, perform the preceding steps and then run WSDeactivate on the computer that was suspended for that particular user. WSDeactivate and its instructions are located in the Dell installation media. When using WSDeactivate, existing local keys, credentials, and policy material are no longer accessible to the Encryption client, and all managed users are forced to reactivate upon their next log on.

View or Modify User Policies and Information

- 1. In the left pane, click Populations > Users.
- 2. Click a User Name or enter a filter to search for available users.

Note: To Search, you can enter Common Name, Universal Principal Name, or sAMAccountName. The wildcard character (*) may be used but is not required at the beginning or end of the text.

When you click a User Name, the User Detail page displays.

3. Click the tab that corresponds with the action you want to perform:

Security Policies - To view or modify policies of the User, click Security Policies.

Details & Actions - To view properties of the User, click **Details & Actions**. Viewable information includes:

User Name: User Name (username@organization.com)

Distinguished Name: CN=User Name, OU=Dallas, DC=Organization, DC=com

Common Name: User Name

User Principal Name: username@organization.com

sAM Account Name: username

User Type - possible values are AD or local

Last Modified - Date/time stamp Last Reconciled - Date/time stamp

Endpoints - To view or modify information for the User's endpoints, click **Endpoints**. For instructions on how to modify endpoint information, refer to <u>View or Modify Endpoint Information</u>.

User Groups - To view the information for Groups the User belongs to, click **Groups**. A list displays of Groups the User belongs to. Click a User Group to view the Group's Security Policies, Details & Actions, Members, and Admin.

Admin - To view, assign, or modify Administrator Roles assigned to the User, click **Admin**. Select or deselect Administrator Types to modify Administrator Roles assigned to the User.

4. If modified, click Save.

User Details & Actions

The User Details & Actions tab lists the properties of the selected user.

- 1. In the left pane, click Populations > Users.
- 2. Search or select a User Name, then the **Details & Actions** tab.

Details:

User Name - User Name (username@organization.com)

Distinguished Name - CN=User Name, OU=Dallas, DC=Organization, DC=com

Common Name - User Name

Universal Principal Name - username@organization.com

sAMAccountName - username

Email - User email address

User Type - possible values are AD or local

Last Modified - Date/time stamp

Last Reconciled - Date/time stamp

User Endpoints

This page displays information about a user's endpoints, listed by platform type. Endpoint categories include Shielded, Mobile Device, and Cloud endpoints.

- 1. In the left pane, click Populations > Users.
- 2. Search or select a User Name, then the Endpoints tab.

Shield

Platform - The platform type

Device Id - Value that uniquely identifies the target device

Last Successful Login - Date/timestamp, per endpoint

Last Unsuccessful Login - Date/timestamp, per endpoint

Last Gatekeeper Sync - Date/timestamp, per endpoint

Effective Policies - Click view for a simple layout view of the effective endpoint policies

Actions - Click Recover to proceed to the Recover Data page

Last Encryption Sweep Start - Date/timestamp, per user

Sweep End - Date/timestamp, per user

Encryption Failure - Click view for a simple list of files that could not be encrypted, per user

States (Date/timestamp, per endpoint):

Policy Updating

User Encryption Profile Updating

EMS Encryption Profile Updating

User Data Encryption On

Deactivation Pending

Suspension Pending

Suspended

Mobile Device

Platform - The platform type

Device Id - Value that uniquely identifies the target device

Effective Policies - Click view for a simple layout view of the effective endpoint policies

Cloud

Platform - The platform type

Device Id - Value that uniquely identifies the target device

User Groups

If the user belongs to a User Group, this page displays information about the group and provides a link to the group.

- 1. In the left pane, click Populations > Users.
- 2. Search or select a User Name, then the Users Groups tab.

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User Group - Group to which the user belongs

Distinguished Name - CN=Group1, OU=Dallas, DC=Organization, DC=com

CN is the common name

OU is the organizational unit name

DC are domain components

Common Name - non-technical name of the user group

User Admin

This page allows you to assign, modify, or view Administrator roles for the user.

- 1. In the left pane, click Populations > Users.
- 2. Search or select a User Name, then the Admin tab.

Administrator Roles - Assign or modify roles for the user and click Save.

Inherited Group Roles - A read-only list of roles that the user inherited from a group. To modify the roles, click the **User Groups** tab for that user and select the Group Name.

Delegated Roles - Delegate Administrator rights to a User.

Related topics:

Administrator Roles

Assign or Modify Administrator Roles

Delegate Administrator Roles

View Reconciliation Date

To view the date and time a User Group's or User's information was last reconciled with Active Directory, click the Details & Actions tab for the Group or User, and refer to Last Reconciled. For instructions, refer to View or Modify User Group Policies and Information and View or Modify User Policies and Information.

View Policy Proxy State

The Remote Management Console tracks the Policy Proxy's Policy Updating state.

- 1. In the left pane, click Populations > Endpoints.
- 2. Select an endpoint type, for example, Workstation or Mobile Device.
- 3. If you know the full Hostname of the endpoint, enter it into the Search field and click the Search icon.

For Windows and Mac, enter the full Hostname of the endpoint if you know it. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the user's email address.

If you do not know the full Hostname or user email address, scroll through the list of available endpoints to locate the endpoint.

- 4. Click an endpoint in the list to display the Endpoint Detail.
- 5. Click the Details & Actions tab of the endpoint for which you want to view information.

Issue a User Decryption Policy

- 1. In the left pane, click Populations > Users.
- 2. Click a User Name link or search for a user and then click a link to display the User Detail.

To Search, you can enter Common Name, Universal Principal Name, or sAMAccountName. The wildcard character (*) may be used but is not required at the beginning or end of the text.

- 3. On the Security Policies tab, click Policy-Based Encryption.
- 4. Set the value of Policy-Based Encryption to Off.
- Click Save.
- 6. Commit Policies.

Once this policy reaches the specified Encryption client, decryption begins.

Endpoint Groups

Endpoint Groups

On the Endpoint Groups page, you can <u>add</u> or <u>remove</u> an Endpoint Group, <u>edit Endpoint Group priority</u>, or search and select an Endpoint Group to view or modify Endpoint Group information.

Types of Endpoint Groups

System - Endpoint Group maintained by Dell Server. System groups include Default Endpoint Group, Opt-In Endpoint Group, Persistent VDI Endpoint Group, and Non-Persistent VDI Endpoint Group. For more information about VDI Endpoint Groups, see VDI Endpoint Groups.

Rule-Defined - Dynamic Endpoint Group based on a specification, or rule set, defined by the administrator.

Admin-Defined - Static Endpoint Group for which the administrator can select specific endpoints for inclusion. The group remains unchanged unless the administrator adds or removes an endpoint. For more information, see Add Endpoints to an Admin-Defined Endpoint Group or Remove Endpoints from an Admin-Defined Endpoint Group.

Active Directory Group - Endpoint Group for which the administrator can select a group from Active Directory for inclusion. The Active Directory group scope must be Global, and type must be Security. At least one endpoint in the Active Directory group must be running a Dell Data Security product and be managed by the Dell Security Management Server. For more information about adding Active Directory Endpoint Groups to the Dell Server, see http://www.dell.com/support/article/us/en/19/SLN306875/.

Add an Endpoint Group

Before you add the first Endpoint Group see <u>Endpoint Groups Specification</u>, which explains fields and expressions used in Group Specifications.

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Click Add.

- 3. In the *Select the type of Endpoint Group* field, select RULE-DEFINED Group, ADMIN-DEFINED Group, or Active Directory Group.
- 4. In the *Group Name* field, enter a name for the new Endpoint Group.
- 5. In the *Description* field, enter a description for the new Endpoint Group.
- 6. (For Rule-Defined Groups only) In the *Specification* field, enter the rule that describes the Endpoint Group. Specifications can be up to 20,000 characters. Specifications are case insensitive.
 - (For Active Directory Groups only) In the Choose AD Group field, enter into the field the beginning characters of an Active Directory group name (Example: Accounting), and select the desired group.
- 7. (For Rule-Defined and Active Directory Groups only) Click **Preview** to view the endpoints to be included in the group.
- 8. Click Add Group to save the group definition.
- 9. After the group is added, modify the group priority if necessary.

Remove an Endpoint Group

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Select the group to remove.
- 3. Click Delete, then click OK.

Modify an Endpoint Group

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Select the group to modify.
- 3. Click the Details & Actions tab.
- 4. Click Modify.
- Make changes as desired.
- Click Update Group.

VDI Endpoint Groups

Upon activation, a VDI endpoint is added to the appropriate VDI Endpoint Group on Dell Server, and policies are sent to the endpoint. Persistent VDI Endpoint Groups and Non-Persistent VDI Endpoint Groups are System Endpoint Groups, which are maintained by Dell Server.

Policy settings differ, based on whether persistent or non-persistent VDI is deployed in the environment. For an explanation of the differences between persistent and non-persistent VDI, see Persistent vs. Non-Persistent vol.

Policy and Configuration Requirements for VDI Endpoint Groups

The policy requirements below are for VDI endpoints running Advanced Threat Prevention. The list includes only policies that are significant for VDI endpoints. VDI User policy settings must also meet certain requirements. See Policy and Configuration Requirements for VDI Users.

Note: Ensure that you turn off Advanced Threat Prevention Agent Auto Update. In the left pane of the Remote Management Console, select Management > Services Management > Advanced Threats - Agent Auto Update, then select Off.

Note: With Persistent VDI Groups, ensure that roaming user profiles are configured.

These policy and configuration settings for VDI Endpoint Groups must be configured before VDI client activation:

Technology	Category	Policy or Setting	Persistent VDI Group setting	Non-Persistent VDI Group setting
Windows Encryption	Self-Encrypting Drive (SED)	Self-Encrypting Drive (SED)	Off	Off
Windows Encryption	Hardware Crypto Accelerator (HCA)	Hardware Crypto Accelerator (HCA)	Off	Off
Windows Encryption	Policy-Based Encryption	SDE Encryption Enabled	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Common Encrypted Folders	<retain default="" settings=""></retain>	<retain default="" settings=""></retain>
Windows Encryption	Policy-Based Encryption	Encrypt Windows Paging File	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Secure Windows Credentials	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Block Unmanaged Access to Domain Credentials	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Secure Windows Hibernation File	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Prevent Unsecured Hibernation	Not Selected	Not Selected
Windows Encryption	Policy-Based Encryption	Enable Software Auto Updates	Not Selected	Not Selected
Windows Encryption	BitLocker Encryption	BitLocker Encryption	Off	Off
Windows Encryption	Server Encryption	Server Encryption	Off	Off
Threat Prevention	Advanced Threat Protection	Advanced Threat Protection	On	On
Removable Media Encryption	Mac Media Encryption	Mac Media Encryption	Off	Off
Port Control	Windows Port Control	Port Control System	Disabled	Disabled

Persistent vs. Non-Persistent VDI

Persistent and Non-Persistent VDI endpoints differ in the following ways:

Persistent VDI	Non-Persistent VDI
Persistent endpoints may exist for many days to years.	Non-persistent endpoints usually exist only for a few days or

	weeks.
Persistent endpoints retain the configurations that are set for the VM, until the VM clone pool is removed and rebuilt.	Non-persistent endpoints revert to baseline settings after a user logs off.
A persistent endpoint is dedicated to a single user.	After reverting to baseline settings, a non-persistent endpoint is available for another user.

Endpoint Groups Specification

To skip to instructions about how to add an endpoint, see Add Endpoint Groups.

At deployment time, all endpoints belong to a default endpoint group, which is generally sufficient for most deployments. This feature is used to assign policy to a specific group of endpoints. For instance, you may want to create an endpoint group based on the locale that the operating system sends up in inventory. Once that endpoint group is established, you could then apply a specific policy set to just the endpoints in your specified locale.

Conversely, creating an endpoint group based on a platform type would not be useful because policies are already grouped by platform.

Endpoint groups are created using a group specification. This specification allows you to define the endpoint characteristics used to add endpoints to a group. You cannot manually add endpoints to endpoint groups. The system, based on the characteristics in the endpoint group specification, automatically manages endpoints and endpoint group membership.

Endpoints can be members of many endpoint groups simultaneously, as there is no mutual exclusion requirement for endpoints in groups. All endpoints are included in the default endpoint group in addition to any defined endpoint groups that they may be a member of. This is similar to the way users are a member of the domain they are a part of, in addition to any security groups. Like the user group mapping, the endpoint group mapping creates a potential policy arbitration problem for endpoints. To resolve this problem, the default endpoint group has the lowest possible precedence, and cannot be altered. The endpoint groups that you create have medium precedence by default. For more information on group precedence, see Modify Group Precedence.

Endpoint Group Specification

The endpoint group specification is a domain specific language that allows you to define groups. The endpoint group specification consists of a set of operators and a set of data fields that these operators can be applied to. A group specification is a Boolean expression that is evaluated per endpoint to determine whether or not a endpoint is a member of a group.

The information obtained to assign endpoints to endpoint groups happens when inventory is received, not at activation time. If you set up endpoint groups, all endpoints will stay only in the default endpoint group until inventory is received.

Group specifications are created using the following fields and expressions. Multiple fields and operators can be used in a single group specification.

Field Name	Description
CATEGORY	Endpoint category: WINDOWS, MAC, SED Mobile Edition is not available for use in the Endpoint Groups feature.
UID	Windows hostname
DISPLAYNAME	Fully qualified hostname
OSVERSION	Operating system version as reported in inventory. We recommend using other available fields, as discrepancies in operating system versions may reduce the usefulness of this field.
OS	Operating system name as reported in the endpoint's inventory
PROCESSOR	System processor information
SERIALNUMBER	Endpoint serial number
LOCALE	The current locale of the endpoint. This is typically only reported by Encryption Enterprise.
WINCOMPUTERNAME	Fully qualified hostname
ASSETTAG	Asset tag of the computer manufacturer
SHIELDVERSION	Version of Encryption client
AGENTVERSION	Agent version for Manager
PLUGINVERSION	Plugin version for Manager
MEMBEROFGROUP	Active Directory group name
MEMBEROFDOMAIN	Active Directory domain name
CLOUDPRESENT	All Dell Data Guardian clients
CLOUDINTERNAL	Internal Data Guardian clients
CLOUDEXTERNAL	External Data Guardian clients
SEDPRESENT	All SED clients
BITLOCKERPRESENT	TRUE/FALSE value for BitLocker Manager, indicating if BitLocker is enabled.
TOTALMEMORY	Total memory available on the system

Operators and Expressions

The basic operators are the binary operators that return a Boolean value.

Operator	Meaning
=	Boolean, Integer, and String equality operator
>, >=	Greater than, greater than or equal, integer operator
<, <=	Less than, less than or equal, integer operator
<>	Not equal, integer string operator
AND	Logical AND for Boolean expression

OR	Logical OR for Boolean expression
NOT	Logical NOT for Boolean expression

The logical operators follow the standard Boolean operator precedence (NOT, AND, OR). String fields have the following string operators that return Boolean values:

BEGINSWITH

ENDSWITH

CONTAINS

These operators can be used on the string fields:

```
UID BEGINSWITH "A1850502"
ASSETTAG CONTAINS "007"
```

String fields also have the following string operators that return substrings of the field:

```
LEFT(string, int)
```

RIGHT(string, int)

MID(string, int, int)

The substring operators can be used in the string operators that return Boolean values:

```
LEFT(DISPLAYNAME, 4) = "A185"
```

There is one additional string operator that returns an integer value that is the length of the string:

```
LEN(string)
```

This can be used in a Boolean expression:

```
LEN(DISPLAYNAME) <= 10
```

Group specifications are created using the fields and expressions described in the previous sections. Multiple fields and operators can be used in a single group specification. For example, a group for WINDOWS devices, with a hostname that started with 'FOO' that also had Hardware Crypto Accelerator cards would be:

```
UID BEGINSWITH "A1850502" AND LEFT(DISPLAYNAME, 4 ) = "A185"

UID BEGINSWITH "A1850502" AND LEFT(DISPLAYNAME, 4 ) = "A185" AND LEN(UID) >= 20

UID BEGINSWITH "A1850502" AND LEFT(DISPLAYNAME, 4 ) = "A185" OR ( LEN(UID) >= 20

AND BITLOCKERPRESENT)
```

• Using the FQDN of the client computer to attach it to a device group can be done by keying on any commonality amongst the desired client computers. In the example below, we have a child domain

of ORGANIZATION, called AMERS to represent a domain in America. Additionally we have a 2nd child domain EMEA representing non-American based clients.

DISPLAYNAME ENDSWITH "AMERS. ORGANIZATION. COM"

This group will contain all clients that are in the AMERS domain according to their FQDN.

DISPLAYNAME ENDSWITH "EMEA. ORGANIZATION. COM"

This group will contain all clients that are in the EMEA domain according to their FQDN

If the hostname of the client computers contain several notations that indicate desired ways in
which to create a group, those specific portions can be captured as long as their location is
consistent.

Looking at the hostname: A12345jdoe.AMER.ORGANIZATION.COM

A denotes an asset, while the following 5 digits denotes the asset's assigned value. The user that was assigned the asset has their SAM account appended to the end.

You can capture the assigned number of the asset, and that it is within a certain subsection of assets. This example shows how to look for assets that have a value less than 1000.

MID(DISPLAYNAME, 2, 5) < 1001

This example targets user's machines where their last name begins with 'r'.

MID(DISPLAYNAME, 8, 1) = "r"

Example for Dell Data Guardian:

To display Dell Data Guardian internal clients, add the specification "cloudpresent and cloudinternal".

To display Dell Data Guardian external clients, add the specification "cloudpresent and cloudexternal".

For instructions about how to add an endpoint, see Add Endpoint Groups.

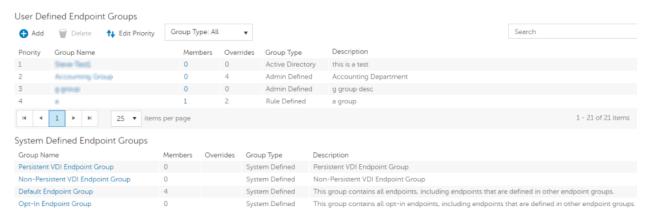
Edit Group Priority

The Group priority feature is used to determine policy precedence for effective policies that affect multiple groups. Group priority creates a weight associated with the specific group it is assigned to, and that weight is used to determine which policy setting is applied to an endpoint that is a member of more than one Endpoint Group when policy settings differ between those groups. Policy overrides are used from the group with higher priority when two (or more) separate groups have different priority levels.

Edit Endpoint Group Priority

Endpoint Group Priority can be changed only for Rule-Defined, Admin-Defined, and Active Directory Groups. System-Defined Group priority cannot be modified. In general, the Endpoint Group at the top of the list of Endpoint Groups has highest priority. The Endpoint Group at the bottom of the list has lowest priority.

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Precedence Ranking

The System Defined Non-Persistent VDI Endpoint Group has the highest priority level, followed by the Persistent VDI Endpoint Group.

Order of priority:

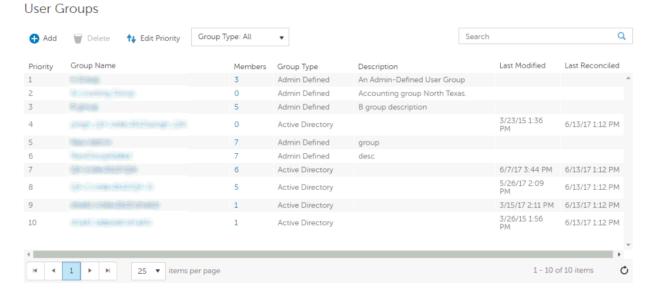
- 1. Non-Persistent VDI Endpoint Group
- 2. Persistent VDI Endpoint Group
- 3. Highest ranked Active Directory/Rule-Defined/Admin-Defined Endpoint Group
- 4. Second and subsequent highest ranked Active Directory/Rule-Defined/Admin-Defined Endpoint Groups
- 5. Opt-in Endpoint Group
- 6. Default Endpoint Group

To change Active Directory/Rule-Defined/Admin-Defined Endpoint Group priority:

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Click Edit Priority.
- 3. Select the row of the appropriate group and drag it to the location in the list of Endpoint Groups that reflects its new priority level.
- 4. Click Save.

Edit User Group Priority

The User Group at the top of the list of User Groups has highest priority. The User Group at the bottom of the list has lowest priority.



To edit User Group priority:

- 1. In the left pane, click Populations > User Groups.
- 2. Click Edit Priority.
- 3. Select the row of the appropriate group and drag it to the location in the list of Endpoint Groups that reflects its new priority level.
- 4. Click Save.

View Endpoints in an Endpoint Group

This page displays the endpoints included in information for every user of the specified endpoint.

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Click a Group Name link or enter a filter to search for available Groups.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

When you click a Group Name, the Endpoint Group Detail page displays.

3. If applicable, View or Modify Endpoint Information.

View or Modify Endpoint Group Policies and Information

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Click a Group Name or enter a filter to search for available Endpoint Groups.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text. When you click a Group Name, the Endpoint Group Detail page displays.

3. Click the tab that corresponds with the action you want to perform:

Security Policies - To view or modify policies of the Group, click Security Policies.

Note: Before modifying VDI Endpoint Group policies, see Policy Requirements for VDI Endpoint

Groups.

Details & Actions - To view properties of the Group, click **Details & Actions**. Viewable information includes:

Group Name: Group1 (Domain\Group1)

Description: The Description provided when the Group was added.

(For Rule-Defined groups) Specification: The endpoint group specification that defines endpoints as members of the group.

SED Device Control - The SED Unlock command for this endpoint group is carried out in the SED Device Control area. This command unlocks the PBA screen after it has been locked - either by sending a Lock command or by exceeding the maximum number of authentications attempts allowed by policy.

Members - To view or modify the information of an Endpoint in the Group, click Members. The list of Endpoints in the Group displays. Click an Endpoint to view the Endpoint's Security Policies, Details & Actions, Users, Endpoint Groups, Threat Events, and Advanced Events.

4. If modified, click Save.

Endpoint Group Details & Actions

This page lists the properties of the selected Endpoint Group.

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Search or select a Group Name, then the Details & Actions tab.

Details:

Group Name of the endpoint group

A description of this endpoint group

The specification that was used to create this endpoint group (applies only to Rule-Defined Groups)

Active Directory Group (applies only to Active Directory Groups)

SED Device Control

The SED Unlock command for this endpoint group is carried out in the SED Device Control area. This command unlocks the PBA screen after it has been locked - either by sending a Lock command or by exceeding the maximum number of authentications attempts allowed by policy.

Endpoint Group Members

This page lists the endpoints within an endpoint group. Information displays based on the group specification used to create the endpoint group.

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Search or select a Group Name, then the Members tab.

Category - WINDOWS, MAC, SED, IOS, or Android

Hostname - Endpoint hostname

OS/Version - Endpoint operating system and version

Add Endpoints to an Admin-Defined Endpoint Group

1. In the left pane, click Populations > Endpoint Groups.

- 2. Select the group to which to add endpoints.
- 3. Click the Members tab.
- 4. Select Add Endpoints to Group, then search for specific endpoints or select endpoints in the list that displays, and click Add Selected Endpoints to Group.

OR

Select **Upload Multiple Endpoints from File**, then click **Browse** to select a CSV file and click **Upload**.

Valid CSV requirements:

- The file must be in valid CSV format and contain a maximum of 999 endpoints.
- The first column must contain valid fully qualified host names. All columns except the first column are ignored.
- Only activated endpoints are added to the group.

Remove Endpoints from an Admin-Defined Endpoint Group

- 1. In the left pane, click Populations > Endpoint Groups.
- 2. Select the group to which to add endpoints.
- 3. Click the Members tab.
- 4. Search for specific endpoints or select endpoints in the list that displays. To select more than one endpoint, press **Shift** and select the endpoints.
- 5. Click the red X that displays in the right column for each endpoint, or select the endpoints and click Remove Endpoints from Group.

Endpoints

Endpoints

On the Endpoints page, you can <u>add an endpoint to a group</u>, <u>remove an endpoint</u>, or <u>search and select an endpoint</u> to <u>View or Modify Endpoint Information</u>. You can also quickly view the following summary information about each endpoint:

*Hostname - Endpoint hostname.

*OS/Version - Operating system and version running on the endpoint (Example: Microsoft Windows 10 Enterprise).

*Category - Catetory of endpoint (Example: Windows or Mac).

*Protected - A green check displays if the endpoint is protected. If the endpoint is not protected, the column is blank.

*Serial Number - Manufacturer assigned serial number.

*Win Computer Name - Computer name Windows uses to identify the computer on the network.

PBE - Policy-Based Encryption version.

Manager - Manager/Agent version.

Data Guardian - Data Guardian version.

* - Click the column header to sort by column label.

Click a Hostname to view additional details about the endpoint. Click an arrow at the left of a Hostname to view the Category, Unique ID, and Processor.

Add Endpoint to Group

To add an endpoint to an Endpoint Group:

- 1. In the left pane, click Populations > Endpoints.
- 2. Click the box next to a Hostname in the list or enter a filter to search for available endpoints.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

For Windows and Mac, if you know the Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the model name or user's email address.

3. At the top left, click Add Endpoints to Group.

An endpoint is added to inventory when a user who is in the Dell database activates the endpoint.

If the user is not found in the Security Management Server Virtual database, they will be located in Active Directory.

Remove Endpoints

Endpoint removal is permanent. Once an endpoint is removed, the action cannot be undone.

To remove an endpoint:

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the appropriate endpoint type, for example, Workstation or Mobile Device.
- 3. Click the box next to a Hostname in the list or enter a filter to search for available endpoints.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

For Windows and Mac, if you know the Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the model name or user's email address.

- 4. At the top left, click Remove.
- 5. Click **OK** to confirm that you want to remove the endpoint.

Note: As another option, click an endpoint link and select the Details & Actions tab. Under Endpoint Detail, click Remove.

Find Endpoints

- 1. In the left pane, click Populations > Endpoints.
- 2. Navigate the list of endpoints using the scroll bar or page navigation controls at the bottom of the page or enter a filter into the Search field to search for available endpoints.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

For Windows and Mac, if you know the Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the model name or user's email address.

View or Modify Endpoint Policies and Information

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the appropriate endpoint type, for example, Workstation or Mobile Device.
- 3. Click a Hostname in the list or enter a filter to search for available endpoints.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

For Windows and Mac, if you know the Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the model name or user's email address.

When you click a Hostname or Endpoint Serial Number, the Endpoint Detail page displays.

4. Click the tab that corresponds with the action you want to perform:

Security Policies - To view or modify policies of the endpoint, click Security Policies.

Details & Actions - To view properties of the endpoint, including Inventory Information, click Details & Actions. Viewable information includes hardware information, effective policies, inventory and protection status, threat protection and Advanced Threat Prevention detail, and SED Device Control commands.

Users - To view a list of users who store and access data on the endpoint, click **Users**. These statistics of endpoint users may be available on the Endpoint Detail page: Login, Last Gatekeeper Sync, Effective Policies, and States. You can also recover data from this page.

Endpoint Groups - To view a list of Endpoint Groups to which this endpoint belong, click Endpoint Groups. All endpoint belong to at least one endpoint group, the Default Endpoint Group. Threat Events - To view information about threat events on the endpoint, click Threat Events. The following information is displayed for events: Severity, Category (Malware, Web Filtering, Web Protection, and Firewall), Event ID, Event Description, User Name, and Received time stamp.

Advanced Events - To view, export, quarantine, or waive unsafe files, click Advanced Events. Events are grouped by Status (Unsafe, Quarantined, or Abnormal), and the following information is displayed for events: File Name, File Paths, Score, Classification, First Found time stamp, Running, Auto Run, and Detected By.

6. If modified, click Save.

View Effective Policy

When you view Effective Policies, you are viewing the policies and settings that are enforced on an endpoint.

- 1. In the left pane, click Populations > Endpoints.
- 2. Click a Hostname in the list or enter a filter to search for available endpoints.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

For Windows and Mac, if you know the Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the model name or user's email address.

When you click a Hostname or Endpoint Serial Number, the Endpoint Detail page displays.

- 5. On the Endpoint Detail page, click the **Details & Actions** tab.
- 6. Under Manager Detail, click View Effective Policies.

Related topics:

Manage Security Policies

Endpoint Details & Actions

The Details & Actions page lists the details for the selected endpoint as well as commands, such as Remove Endpoint. Available details and commands vary, depending on the endpoint platform.

To access Endpoint Details & Actions, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Search or select a Hostname, then the **Details & Actions** tab.

Endpoint Detail

Command:

Click the Remove link to remove this endpoint.

Note: Endpoint removal is permanent. Once an endpoint is removed, the action cannot be undone.

Details:

Windows

Category - Windows

OS/Version - Example: Microsoft Windows 10 Enterprise

Processor

Serial Number - Manufacturer assigned serial number

Unique ID - Dell assigned unique identifier

Protected - Date and time stamp

Mac

Category - Mac

OS/OS Version - Example: Mac OS X 10.11.0

Processor

Serial Number - Manufacturer assigned serial number

Unique ID - Dell assigned unique identifier

Protected - Date and time stamp

Mobile Device

Category - Mobile Device

OS/OS Version - Example: Lollipop / 5.0 Model Name - Examples: Android or iPad

Serial Number - Manufacturer assigned serial number

Last Contact Time - Date and time stamp of last contact with the Security Management Server

State:

Discovered - device found

Blocked - block from Exchange access

Blocked Sub-States (on the Endpoint Detail page):

Blocked by Admin - (EAS only) blocked by administrative override using the Block Device command Blocked by Policy - (EAS or iOS) subject to the Allow iOS Devices and Allow Non-iOS Devices policies.

Pending - iOS policy pending

Protected - policies implemented

Cloud

Category - Windows, iOS, or Android

OS/OS Version - Examples:

Windows 10

Android / 5.0

iPhone OS / 8.0

Model ID - Examples: iPhone6, or iPad3,4

Model Name (if available)

Phone ESN/IMEI (if available)

Processor (will display if the data is available)

Memory available and total (MBs) (will display if the data is available)

Battery remaining% (will display if the data is available)

Serial Number - Manufacturer assigned serial number

Unique ID - Dell assigned unique identifier

Actions - Hide or Remove Endpoint

Shield Detail

Commands:

To view the policies of the endpoint, click View Effective Policies.

Obtain the endpoint's recovery keys:

- 1. Click Device Recovery Keys.
- 2. Enter a Recovery Password and click **Download**.

The recovery bundle containing this endpoint's encryption keys is downloaded. You must remember the Recovery Password to access the recovery keys.

Detail:

Windows

Policy Proxy Group (typically CMGREMOTE)

Recovery ID of the specific endpoint

Version (core/edition)

Activation Method (typically Mandatory)

HCA Enabled: True or False TPM Present: True or False Edition: Dell or CREDANT

States:

Policy Updating: Date and timestamp

Device Encryption Updating: Date and timestamp
Device Data Encryption On: Date and timestamp

Sweep Started: Date and timestamp

Sweep Completed: Date and timestamp
Inventory Received: Date and timestamp
Inventory Processed: Date and timestamp

Manager Inventory Received: Date and timestamp

Manager Inventory Processed: Date and timestamp

Protected:

Protection Status Tab:

Disk Name

Capacity (storage)

Protection Status (Protected, Protecting, Unknown)

Interface type

Model number of the endpoint

GPE Tab:

GPE Available (True or False)

GPE Driver Version

GPE Functional (True or False)

GPE Lifecycle Remaining (number)

GPE Lifecycle Owner Remaining (number)

GPE Provisioned Status

TPM Tab:

TPM Present (True or False)

TPM Activated (True or False)

TPM Owned (True or False)

TPM Functional Status (True or False)

TPM Spec Version (version number)

HCA Tab:

HCA Functional Status

HCA Provision State

Preboot Present (True or False)

Preboot Set (True or False)

Actions: Effective policies on the specific endpoint and Recovery Keys for the specific endpoint

Mac

Policy Proxy Group (typically CMGREMOTE)

Recovery ID of the specific endpoint

Version (core/edition)

Activation Method (typically Mandatory)

Edition (Dell or Credant)

States:

Policy Updating: Date and timestamp

Device Encryption Updating: Date and timestamp

Device Data Encryption On: Date and timestamp

Sweep Started: Date and timestamp

Sweep Completed: Date and timestamp Inventory Received: Date and timestamp

Inventory Processed: Date and timestamp

Protected:

Protection Status Tab:

Disk Name

Capacity (storage)

Protection Status (Protected, Protecting, Unknown)

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Interface type

Model number of the endpoint

Actions: Effective policies on the specific endpoint and Recovery Keys for the specific endpoint

Manager Detail (Windows only)

Command:

Click View Effective Policies to go to the effective policy page for this endpoint.

States

The client gathers the following information via a Windows Management Instrumentation (WMI) call to the Operating System. It is updated with each inventory update.

Inventory Received - the date and time that the inventory was received by the Security Management Server and placed in the queue.

Inventory Processed - the date and time that the inventory was picked up from the queue and processed (Note: If the Server is under load, the Processed and Received times may be different, but usually they will be the same.)

Agent Version - the version of Manager the endpoint is running.

Protected - Summarizes the protection status of the disk.

Protection Status

Disk - number of the disk

Partitions - number of partitions the disk has

Capacity - capacity of the disk

Encryption Technology - encryption technology in use

Protection Status - Protected or unprotected

Interface - Disk interface (Examples: IDE, SATA)

Model - Manufacturer name and model of the disk

Click the small black arrow on the left to expand the disk details to view information for each partition of the disk.

Logical Disk - The name of the logical disk.

ID - The identifying number of the logical disk.

Encryption % - The percentage of the partition that has been encrypted.

Capacity - The capacity of the partition.

Protection Status - Protection status for the partition: Protected, Unprotected, Locked

Providers

Agent - SED, FDE, Authentication Proxy, Preboot Authentication, Windows Authentication, BitLocker, TPM, Threat Protection, Advanced Threat Prevention

Plugin Functional Status (green check mark or red "x") - This indicates whether the Agent has been enabled via policy. To get more detail on whether each plugin is working as expected, look at Plugin State column.

Plugin State:

• BitLocker Plugin:

Starting - Manager is starting up. Because this is a fairly quick process, it is unlikely an inventory update would capture this so you would probably never see this state in the Security Management Server Console.

Disabled - Manager is disabled by policy and not enforcing any previously received policy.

Active - Manager is running normally and enforcing policies.

No Policy - Initial policy has not been received so the plugin is not actively enforcing any policy. This is only relevant the very first time you install the Manager client. Manager will not start a plugin until an initial policy is received from the Security Management Server, versus starting the plugin with some default policy placed on the client during install. After an initial policy has been received from the Security Management Server, via the activation process, plugins are always started with the last policy the client is aware of.

OpSys Not Supported - Manager does not support this operating system. Manager is not actively enforcing policy related to this plugin, due to this plugin-specific exception.

TPM Plugin:

Starting - Manager is starting up. Because this is a fairly quick process, it is unlikely an inventory update would capture this so you would probably never see this state in the Security Management Server Console.

Disabled - Manager is disabled by policy and not enforcing any previously received policy.

Active - Manager is running normally and enforcing policies.

TPM Services Not Started - In the Enterprise Server Console this is listed as *TPM Base Services Failed*. It means something is preventing the TPM service from starting as expected. The Manager is not actively enforcing policy related to this plugin, due to this plugin-specific exception.

No TPM Device - The TPM device is not present or is not detectable in the indicated computer. The Manager is not actively enforcing policy related to this plugin, due to this plugin-specific exception.

No Policy - Initial policy has not been received so the plugin is not actively enforcing any policy. This is only relevant the very first time you install the Manager client. Manager will not start a plugin until an initial policy is received from the Security Management Server, versus starting the plugin with some default policy placed on the client during install. After an initial policy has been received from the Security Management Server, via the activation process, plugins are always started with the last policy the client is aware of.

• SED Plugin:

Initialized - Manager is initialized waiting for delayed startup

Starting - Manager is starting up. Because this is a fairly quick process, it is unlikely an inventory update would capture this so you would probably never see this state in the Security Management Server Console.

Disabled - Manager is disabled by policy and not enforcing any previously received policy.

Active - Manager is running normally and enforcing policies.

No Policy - Initial policy has not been received so the plugin is not actively enforcing any policy. This is only relevant the very first time you install the Manager client. Manager will not start a plugin until an initial policy is received from the Security Management Server, versus starting the plugin with some default policy placed on the client during install. After an initial policy has been received from the Security Management Server, via the activation process, plugins are always started with the last policy the client is aware of.

Waiting For Escrow - Manager is waiting for keys to escrow

Waiting For Server Public Key - Manager is waiting for public key to proceed with activation

No Opal Drive Present - Manager did not detect an OPAL drive

Plugin Version - The version of the plugin, which is taken from the plugin's version information

Vendor version - The version of the underlying framework. For example, BitLocker is Microsoft's technology, therefore Vendor Version is Microsoft's version for BitLocker.

Threat Protection Detail (Windows only)

Scan Engine Version - Lists the version of the engine that performed the last scan.

DAT File Version - Lists the version of the DAT file.

Last Scan Started - Date/time stamp that the last scan was started.

Last Scan Completed - Date/time stamp that the last scan was completed.

Advanced Threat Prevention Detail

Device ID - Lists the identifier of the device as it pertains to Advanced Threat Prevention.

Agent Version - Lists the version of the agent.

Update Date - Date/time stamp that the agent was updated.

Provisioned Date - Date/time stamp that the client was provisioned.

Mobile Device Detail

For Mobile devices, once a device is discovered, commands are carried out on this page. Unlike policies and restrictions that are concerned with enforcement, commands are pushed to the device to enable an action.

Commands:

Command	Sent	Sender	Acknowledged	Error
Wipe Device - (shared iOS and EAS command) To permanently delete all media and data on the device and restore it to factory settings, iOS can remotely wipe iPhone and iPad. This is primarily to support a quick remote wipe operation.			Date and timestamp of when the command was implemented on the endpoint.	
Block Device - (EAS only command) You can send an administrative override to the device to immediately block Exchange services. This command is independent of policy values. Date and timestamp of when the Policy Proxy sent the command to the endpoint.	Date and timestamp of when the command was sent.	Name of the sender that sent the command.	Date and timestamp of when the command was implemented on the endpoint.	Used for internal troubleshooting.
Allow Device - (EAS only command) This command reverses the Block Device command. Once a device is blocked by your administrative override, the only way to restore access to Exchange services is to invoke this command. This command is also independent of policy values. For example, if you have set the Allow Non-iOS Devices policy to False, invoking			Date and timestamp of when the Policy Proxy sent the command to the endpoint.	

this command has no effect.		

Cloud Device Control

Cloud device commands apply to the selected endpoint and are carried out from the Cloud Device Control section of the device's endpoint page. Unlike policies, commands are pushed to the device to enable an action.

Commands:

Suspend - Suspends the endpoint device. It does not suspend the user account.

Unsuspend - Unsuspends the endpoint device.

FDE Device Control (Windows only)

Current State of the Endpoint - Unlocked or Locked

Commands:

PBA commands for a specific endpoint are carried out in the PBA Device Control area. Each command has a priority ranking. A command with a higher priority rank cancels commands of lower priorities in the enforcement queue. For a list of command priority rankings, see Priority of Commands for Self-Encrypting Drives.

Lock - Locks the PBA screen and prevents any user from logging into the computer.

Unlock - Unlocks the PBA screen after it has been locked on this endpoint, either by sending a Lock command or by exceeding the maximum number of authentications attempts allowed by policy.

Remove Users - Removes all users from the PBA.

Bypass Login - Bypasses the PBA screen one time to allow a user into the computer without authenticating. The user will still need to login to Windows after PBA has been bypassed.

Wipe - The Wipe command functions as a "restore to factory state" for the FDE drive. The Wipe command can be used to re-purpose a computer or, in an emergency situation, wipe the computer, making the data permanently unrecoverable. When the wipe command is consumed by the client, all history and details about this endpoint are removed from the Security Management Server. Ensure that this is the desired behavior before invoking this command.

The FDE Device Control Table

The table lists the commands most recently sent to the PBA Device.

To sort the table, click a column header.

PBA Device Control (Windows only)

Current State of the Endpoint - Unlocked or Locked

Commands:

PBA commands for a specific endpoint are carried out in the PBA Device Control area. Each command has a priority ranking. A command with a higher priority rank cancels commands of lower priorities in the enforcement queue. For a list of command priority rankings, see Priority of Commands for Self-Encrypting Drives.

Lock - Locks the PBA screen and prevents any user from logging into the computer.

Unlock - Unlocks the PBA screen after it has been locked on this endpoint, either by sending a Lock command or by exceeding the maximum number of authentications attempts allowed by policy.

Remove Users - Removes all users from the PBA.

Bypass Login - Bypasses the PBA screen one time to allow a user into the computer without authenticating. The user will still need to login to Windows after PBA has been bypassed.

Wipe - The Wipe command functions as a "restore to factory state" for the SED drive. The Wipe command can be used to re-purpose a computer or, in an emergency situation, wipe the computer, making the data permanently unrecoverable. When the wipe command is consumed by the client, all history and details about this endpoint are removed from the Security Management Server. Ensure that this is the desired behavior before invoking this command.

The PBA Device Control Table

The table lists the commands most recently sent to the PBA Device.

To sort the table, click a column header.

Protected Status

Protected status is indicated if any of the following criteria are met:

- Advanced Threat Prevention is installed and enabled.
- Dell Data Guardian is installed and enabled.
- Self-Encrypting Drive Management is installed, enabled, and the Pre-Boot Authentication (PBA) is enabled.
- BitLocker Manager is installed, enabled, and encryption has completed.
- Dell Encryption (Mac) is installed and enabled, and policy-based encryption has been enforced.
- Dell Encryption (Windows) is installed, enabled, Policy-Based Encryption has been set for the endpoint, and the most recent policy has been applied for the last logged on user.

To check Protected Status of an endpoint:

- 1. In the left pane, click Populations > Endpoints.
- 2. Click a Hostname in the list or enter a filter to search for available endpoints.

Note: The wildcard character (*) may be used but is not required at the beginning or end of the text.

For Windows and Mac, if you know the Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Windows and Mac endpoints.

For Mobile devices, optionally enter the model name or user's email address.

When you click a Hostname or Endpoint Serial Number, the Endpoint Detail page displays.

3. A green check mark displays in the Protected column if any of the criteria for Protected status are met.

Endpoint Users

This page displays information for every user of the specified endpoint. The user information differs for each technology group or policy category.

- 1. In the left pane, click Populations > Endpoints.
- 2. Search or select a Hostname, then the Users tab.

Shield

User - Each user on the specific endpoint

Last Successful Login - Date/timestamp, per user

Last Unsuccessful Login - Date/timestamp, per user

Last Gatekeeper Sync - Date/timestamp, per user

Effective Policies - Click view for a simple layout view of the effective user policies

Actions - Click Recover to proceed to the Recover Data page

Last Encryption Sweep Start - Date/timestamp, per user

Sweep End - Date/timestamp, per user

Encryption Failure - Click view for a simple list of files that could not be encrypted, per user

States (Date/timestamp, per user):

Policy Updating

User Encryption Profile Updating

EMS Encryption Profile Updating

User Data Encryption On

EMS Data Encryption On

Deactivation Pending

Suspension Pending

Suspended

Cloud

User - Each user on the specific endpoint

Endpoint Groups

This page lists the Endpoint Groups to which an endpoint belongs.

Endpoint Group - Name of the group to which this endpoint belongs. All endpoints belong to at least one endpoint group, the Default Endpoint Group.

Description - Describes the group.

To view Endpoint Groups of an endpoint, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Search or select a Hostname, then the **Endpoint Groups** tab.

Endpoint Threat Events

This page lists information on threat events for the selected endpoint.

1. In the left pane, click Populations > Endpoints > Workstation.

2. Search or select a Hostname, then the Threat Events tab.

Threat Event Data

Severity - Severity of the threat, where Critical is the most dangerous threat to the endpoint, and Information is just a notification of an event that is unlikely to harm the endpoint. (Critical, Major, Minor, Warning, Information)

Category - Category of the threat. Upon identification, threats are sorted into these categories: Malware, Web Filtering, Web Protection, and Firewall.

Event ID - Unique number assigned to each threat event.

Description - Description of the last preventative action taken to handle the threat.

User Name - The domain\user name associated with the endpoint where the threat was identified.

Received - Date/timestamp when the last action was taken to handle a threat.

Navigate the Threat Event Data

To sort the data, click a column header.

Use the controls at the bottom of the page to:

- Advance to the top of the data.
- Go back one page.
- Go forward one page.
- Advance to the end of the data.
- Increase or reduce the items per page.
- View the range of items currently displayed.
- Refresh the data.

Endpoint Advanced Threats

This page allows you to view, export, quarantine, or waive unsafe files that trigger events on the selected endpoint.

An event is not necessarily a threat. An event is generated when a recognized file or program is quarantined, safe listed, or waived. Threats are a category of events that are newly detected as potentially unsafe files or programs and require guided remediation.

- 1. In the left pane, click Populations > Endpoints.
- 2. Search or select a Hostname, then the Advanced Events tab.

List of Events

The list presents all files that have triggered events found on this device.

Columns

- Icon An icon appears in this column, when available.
- Name File triggering the event.
- File Paths The location of the file on the device.

- Cylance Score A score is assigned to each file that is deemed Abnormal or Unsafe. The score represents the confidence level that the file is malware. The higher the number, the greater the confidence.
- Status Indicates whether the file has been guarantined or waived.
- Classification Classification of the threat: High, Medium, or Low. For details, see <u>Advanced</u> Threat Protection Classifications.
- First Found Date/timestamp that the file was first found.
- Running Indicates whether the file that triggered the event is running or not.
- Auto Run Indicates whether the file was set to automatically run upon startup.
- Detected By Indicates whether the file was detected by Execution Control or by Memory Protection.

Configure the Threat List

Add or Remove Columns

Click an arrow next to any column header and select Columns to add columns to, or remove columns from, the table.

Filter on Column Data

To filter the list based on column data, click the down-arrow on any column to display the context menu, and select Filter.

The filter options vary, depending on the type of data in the column. For example, you may want to filter the list so that it shows only high priority threats.

Group by a Column

Drag a column header, such as Status, to the area directly above the column headers to group the data by Status. When you drag a column header, it turns green, indicating that the table can be grouped by that data. You can drag additional headers over the table to group the data even further.

For each group, a number appears in parentheses to indicate the total number of threats that share that group's attribute.

Commands:

Select the check box of next to a file name to perform an action on the file. To select all files, select the check box in the column heading row.

The **Export** button lets you export selected data to a .CSV file so that you can view the data in Excel or a similar application which has powerful sorting/organizing features.

After selecting the data you want to export, click Export to save the data in a .CSV file.

Click Quarantine to add the file to the Quarantine list.

Quarantining a file will prevent the file from being executed on this device.

Note: Quarantining a file will move the file from its original location to the Quarantine directory (C: $\ProgramData\Cylance\Desktop\q)$.

Click Waive to allow the file to run on this device.

Note: Occasionally, a "good" file could be quarantined or reported. This could happen if the features of that file strongly resemble those of malicious files. Waiving or globally safe listing the file can be useful in these instances.

Exploit Attempts

This section lists the detection of attempts to exploit running processes, or malware that executes from within memory space.

A number displays the total number of events, followed by the number in each subcategory.

Checkbox - Select all events by selecting the check box in the column heading row, or select individual events. When you click a box, Quarantine and Waive are activated.

Added - Date and time when the exploit attempt was added.

Process Name - Name of the process identified as an exploit attempt.

Process ID - Unique number associated with the exploit attempt.

Type - Type of memory exploit: Exploitation, Process Injection, Escalation.

Action - Action taken to protect the system from the exploit attempt:

- Ignore The agent will not take any action against identified memory violations.
- Alert The agent will record the violation and list the incident on this page.
- Block If an application attempts to call a memory violation process, the agent will block the process call. The application that made the call is allowed to continue to run.
- Terminate If an application attempts to call a memory violation process, the agent will block the process call and will also terminate the application that made the call.

User Name - Name of the user who was logged in when the exploit attempt was identified.

Endpoint Advanced Threat Events

The Advanced Threat Events tab displays if the Advanced Threat Prevention service is provisioned and Advanced Threat Prevention is enabled on the endpoint.

The tab displays information about events for the endpoint based on information available in the Security Management Server.

To access the Enterprise Advanced Threats tab, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Search or select a Hostname, then the Advanced Threat Events tab.

Use the following filters to select content to display on the Advanced Threat Events tab:

Type - Threat Found, Threat Blocked, Threat Terminated, Memory Violation Blocked, Memory Violation Terminated, Memory Violation (Detected), Threat Removed, Threat Quarantined, Threat Waived, Threat Changed, Protection Status Changed.

Severity - Severity level of the event: Critical, Major, Minor, Warning, or Informational.

Timeframe (in days) - 1, 7, 14, 30, 60, 90

Columns - Allows you to select the following additional columns to display:

Host Name - The fully qualified name of the computer

Data - Details about the event

Created - Date and time that the event was captured

Machine Name - Name of the computer on which the threat event was detected

Path - Path to the file in which the threat was detected

Sha256 - The file's 256-character Secure Hash Algorithm can be compared with an expected result to indicate whether the file has been tampered with.

Score - The threat file's score, indicating the confidence level that the file is malware. The higher the number, the greater the confidence.

Server Encryption Clients

Suspend a Server Encryption Client

When you suspend a Server Encryption client, you suspend the user associated with the encryption client rather than an individual user who logs on to the endpoint.

To suspend a Server Encryption client:

- 1. In the left pane, click Populations > Users.
- 2. In the Search field, enter SERVER-USER and click the search icon.
- 3. Click the User Name of the appropriate user.
- 4. On the User Detail page, click the Endpoints tab.
- 5. Click the Device Id of the appropriate endpoint.
- 6. On the Endpoint Detail page, click the **Details & Action** tab.
- 7. In Server Device Control, click **Suspend**.

The Server Encryption client is suspended the next time the endpoint is rebooted.

To reinstate a suspended Server Encryption client, follow the instructions in <u>Reinstate a Suspended Server Encryption Client</u>.

Reinstate a Suspended Server Encryption Client

To reinstate a suspended Server Encryption client, follow these steps:

- 1. In the left pane, click Populations > Users.
- 2. In the Search field, enter SERVER-USER and click the search icon.
- 3. Click the User Name of the appropriate user.
- 4. On the User Detail page, click the **Endpoints** tab.
- 5. Click the Device Id of the appropriate endpoint.
- 6. On the Endpoint Detail page, click the Details & Action tab.

7. In Server Device Control, click Reinstate.

The Server Encryption client is reinstated the next time the endpoint is rebooted.

Commands for Self-Encrypting Drives

Priority of Commands for Self-Encrypting Drives

Each command for self-encrypting drives has a priority ranking. A command with a higher priority rank cancels commands of lower priorities in the enforcement queue.

Priority rankings (1 is highest):

- 1. Wipe
- 2. Lock
- 3. Remove Users
- 4. Unlock
- 5. Bypass

For example, a Wipe command cancels a Lock command that was previously queued to send to the endpoint.

Related topics:

Send Wipe Command to Self-Encrypting Drive

Lock a Self-Encrypting Drive

Remove Users from Endpoint with Self-Encrypting Drive

Unlock a Self-Encrypting Drive

Allow PBA Login Bypass

Allow PBA Login Bypass

You can allow users to bypass the Preboot Authentication (PBA) screen one time to allow a user into the computer without authenticating on an endpoint equipped with a self-encrypting drive.

To send the Bypass Login command, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the Workstation Endpoint Type.
- 3. If you know the full Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Workstation endpoints.
- 4. Click the search icon.

An endpoint or list of endpoints displays, based on your search filter.

- 5. Click the Hostname of the endpoint on which to allow PBA login bypass.
- 6. Click the **Details & Actions** tab.
- 7. Under SED Device Control, click Bypass Login.
- 8. Click Yes to confirm that you want to send the Bypass Login command to the endpoint.

Unlock a Self-Encrypting Drive

You can unlock the PBA screen after it has been locked on this endpoint, either by sending a Lock command or by exceeding the maximum number of authentications attempts allowed by policy.

To send the Unlock command, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the Workstation endpoint type.
- 3. If you know the full Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Workstation endpoints.
- 4. Click the search icon.

An endpoint or list of endpoints displays, based on your search filter.

- 5. Click the Hostname of the endpoint with the self-encrypting drive to unlock.
- Click the Details & Actions tab.
- 7. Under SED Device Control, click **Unlock**.
- 8. Click Yes to confirm that you want to send the Unlock command to the endpoint.

Remove Users from Endpoint with Self-Encrypting Drive

To remove users from the PBA, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the Workstation endpoint type.
- 3. If you know the full Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Workstation endpoints.
- 4. Click the search icon.

An endpoint or list of endpoints displays, based on your search filter.

- 5. Click the Hostname of the endpoint from which to remove users.
- 6. Click the Details & Actions tab.
- 7. Under SED Device Control, click Remove Users.
- 8. Click Yes to confirm that you want to send the Remove Users command to the endpoint.

Lock a Self-Encrypting Drive

To lock the PBA screen and prevent any user from logging onto the computer, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the Workstation Endpoint Type.
- 3. If you know the full Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Workstation endpoints.

4. Click the search icon.

An endpoint or list of endpoints displays, based on your search filter.

- 5. Click the Hostname of the endpoint with the self-encrypting drive to lock.
- 6. Click the Details & Actions tab.
- 7. Under SED Device Control, click Lock.
- 8. Click Yes to confirm that you want to send the Lock command to the endpoint.

Send Wipe Command to Self-Encrypting Drive

WARNING: The Wipe command clears all data from the disk and cannot be undone.

The Wipe command functions as a "restore to factory state" for the SED drive. The Wipe command can be used to re-purpose a computer or, in an emergency situation, wipe the computer, making the data permanently unrecoverable. When the wipe command is consumed by the client, all history and details about this endpoint are removed from the Security Management Server or Security Management Server Virtual. Ensure that this is the desired behavior before invoking this command.

To send the Wipe command, follow these steps:

- 1. In the left pane, click Populations > Endpoints.
- 2. Select the Workstation Endpoint Type.
- 3. If you know the full Hostname of the endpoint, enter it in the *Search* field. However, you may leave the field blank to display all Workstation endpoints.
- 4. Click the search icon.

An endpoint or list of endpoints displays, based on your search filter.

- 5. Click the Hostname of the endpoint on which to wipe the self-encrypting drive.
- 6. Click the Details & Actions tab.
- 7. Under SED Device Control, click Wipe.
- 8. Click Yes to confirm that you want to send the Wipe command to the endpoint.

Set the Server Connection Retry Interval

To set the interval at which the SED client will attempt to contact the Security Management Server Virtual when the Server is unavailable to communicate with the SED client, set the following value on the client computer:

CommErrorSleepSecs (DWORD Value)=300

This value is the number of seconds the SED client waits to attempt to contact the Server if the Server is unavailable to communicate with the SED client. The default is 300 seconds (5 minutes).

Administrators

Assign or Modify Administrator Roles

From the Administrators page, you can view or modify existing Administrator privileges.

To view or modify existing Administrator privileges, follow these steps:

- 1. In the left pane, click Populations > Administrators.
- 2. Search or select the row that displays the Username of the appropriate Administrator to display User Detail
- 3. View or modify administrator roles in the pane at the right.
- 4. Click Save.

Note: Dell recommends assigning Administrator Roles at the Group level rather than at the User level.

To view, assign, or modify Administrator Roles at the Group level, follow these steps:

- 1. In the left pane, click Populations > User Groups.
- 2. Search or select a Group Name, then the Admin tab.

The User Group Detail page displays.

- 3. Select or deselect Administrator Roles assigned to the Group.
- 4. Click Save.

If you remove a Group that has Administrative privileges and later re-add the Group, it remains an Administrator Group.

To view, assign, or modify Administrator Roles at the User level, see User Admin.

Related topics:

Administrator Roles

User Admin

Delegate Administrator Roles

Administrator Roles

Administrator login is integrated with Active Directory to simplify the process of managing Administrators and to allow you to leverage your existing user authentication infrastructure. Administrators are assigned roles that define what level of access each Administrator is allowed. For example, some Administrators may only be allowed to implement help desk assisted recovery while others have full access to edit security policies. You can assign Administrator roles to Active Directory groups so you can easily change the level of Administrator access users have with a simple change to AD group membership. Non-domain users can be granted reporting-only access via Compliance Reporter.

There are 11 types of Administrators. Distributed administration is key to the secure administration of your environment. It allows you to divide roles appropriately among your Administrators and ensures the proper level of privileges are assigned to each Administrator. A single Administrator can have privileges of more than one Administrator type. However, it is recommended to have a maximum of one Super Administrator (an Administrator who has privileges of all Administrator types).

The following table shows the tasks each Administrator can perform in the Remote Management Console or Compliance Reporter Interface.

	Performed by Type of Administrator										
Task	Help Desk	System	Security	Log	Account	Forensic ¹	Policy ²	Report	Report Owner	Report User	Super
Log in	•	•	•	•	•			•	•	•	•
Log out	•	•	•	•	•			•	•	•	•
View current system state	•	•	•		•						•
Search for Users, Groups, and Endpoints	•	•	•		•						•
Add Users and Groups		•	•		•						•
Browse Domains	•	•	•		•						•
Add and edit Domains		•	•								•
Upload licenses		•									•
Recover an endpoint - Authentication Failure	•		•								•
Remove an endpoint		•									•
Change Dell Server Options		•	•								•
Suspend a User			•								•
Recover Data - authentication failure or reinstate suspended user	•	•	•								•
Deactivate a User			•								•
View policies			•								•
Modify policies			•								•
Commit policies			•								•
Issue commands			•								•
View audit events	•	•	•	•	•			•	•	•	•
Analyze logs		•		•							•
View Administrators					•						•
Create, change, and delete Administrator accounts					•						•
Delegate Administrator					•						•

privileges									
Download Recovery Key Bundle	•		•						•
Provision or recover the Advanced Threat Prevention service		•							•
Enroll for Advanced Threat Prevention auto updates		•							•
Set email notifications of Client Access Licenses, Threat Protection, and Advanced Threat Prevention Alerts		•	•						•
Manage Data Guardian external users		•	•						•
Manage Data Guardian external user key requests		•	•						•
Revoke Data Guardian keys		•	•						•
Install/uninstall Compliance Reporter									•
Log in to Compliance Reporter						•	•	•	•
Manage report folders and modify/save Compliance Reporter Report Layouts						•			•
Access the Compliance Reporter Reports Window						•	•	•	•
Work with Compliance Reporter Report Views and generate reports						•	•	•	•
Access the Compliance Reporter Report Administrator Window						•			•
Create, manage, schedule, and make Compliance Reporter report layouts available to Report Users						•	•		•
Specify the data source for Compliance Reporter						•			•

Manage Compliance Reporter user privileges				•			•
Edit or delete a report that is set to run at a specified interval in the Compliance Reporter Scheduler				•			•
Schedule and rename a report that is set to run at a specified interval in the Compliance Reporter Scheduler				•	•		•
Enter or modify settings in Compliance Reporter Settings				•			•
Set up Compliance Reporter plug-ins				•			•
Open a Report, modify an online Report display, and rename a Report view in Compliance Reporter				•	•		•
Generate, export, store, print, and email a Report result in Compliance Reporter				•	•	•	•
Add, edit, and delete a Compliance Reporter Report folder				•	•		•

¹ The Forensic Administrator role provides the rights to use the Forensic Administrator Tools via XAPI.

Delegate Administrator Rights

Administrator rights for a User Group can be delegated to a User. The delegated Administrator and Users must be members of the User Group not only in Active Directory but in the Security Management Server Virtual database. Administrator rights are available to the delegated Administrator only if the delegated Administrator is a member of the User Group in the Security Management Server Virtual database. Delegated Administrator rights are effective only with regard to Users who are members of the User Group in the Security Management Server Virtual database.

Note: Only the Superadmin and Account Administrator can delegate Administrator rights.

To delegate Administrator rights, follow these steps:

- 1. In the left pane, click Populations > User Groups.
- 2. Search for the appropriate group.

² The Policy Administrator role is reserved for future use.

- 3. Click the Admin tab.
- 4. Under Delegated Roles, click Add.
- 5. Search for and select the User to receive administrator rights, then click Add.

To remove delegated administrator rights, under Delegated Roles in User Group Detail, locate the User to remove as delegated administrator and click the red X next to the User name.

Reporting

Manage Reports

Manage Reports

In the left pane of the Remote Management Console, click **Reports > Manage Reports**. For compliance and monitoring purposes, you can:

- Manage reports
- View or modify an existing report
- Create a new report

Manage reports

The Manage Reports page has:

- New Report See Create a new report.
- Report Type Select All (default) or specific report types to display in the Name column. Clear selected items to undo selections. See Report Type.

Note: Policy-based reports are not an option.

- Grouping Group by Report Type, Author, Private, or None (default).
- Columns Select which columns to display on the Manage Reports page, such as Name, Description, Report Type, Author. Also:
 - Private True indicates only the owner of the report can access it.
 - Report administrator can view all public and private reports.
 - Other administrators can view private reports they created and all public reports.
 - Created Date the report was created.
 - Modified Date the report was modified.
- Search Hover to view columns for performing a search, then enter specific text for those columns. Use * for a wildcard. For additional filtering to provide a detailed search on a specific report, see Use_Search_and_More..__to_filter.

View or modify an existing report

On the Manage Reports page, select a report from the Name column to view an instance of that report. The owner can make the report private or public. See <u>View Report</u>.

Create a new report

On the Manage Reports page, click **New Report** and select an option. An instance of that report opens where you can customize the information to display. See <u>View Report</u>.

View Report

On the Manage Reports page, select an option in **New Report** or click an existing report in the **Name** column. The Report View page opens.

- New report An administrator can select Save As. Save, Rename, and Delete options are activated, and the report is saved to the Manage Reports page. The owner can make the report private or public. You can create:
 - Single reports
 - Report templates Determine frequent report content that you will generate. Select Column and Grouping options that are common to all those reports and save it as a template. See View_or_modify_an_existing_report.
- Existing report:
 - To filter a report, perform a query using the **Search** and **More**... fields.
 - Owner of a report Can view their private reports and all public ones. Only the owner or a Report administrator can modify or rename the report.
 - Report administrator Can view all private and public reports. Can modify or rename public and private reports.
 - Public reports any administrator can select Save As to modify a copy of the report.

Grouping, Columns, and More... differ for each report type. Some Column and Grouping options are selected by default.

- Columns allows you to customize the options you want the report to display. After you select options, you can drag and resequence to avoid scrolling. The resequenced columns return to the default when you close the report.
- Grouping allows you to sort the column options you selected.
- Hover over the Search field to view suggested columns for performing a search, then enter specific text. Suggested column options differ for each report type. Use * for a wildcard.

For a description of each report's Column and Grouping options, click a link below.

Report Type	Description and link
Device Detail	Provides reports based on Windows, Mac, iOS and Android device details. See Endpoint Details & Actions.
Shield Detail	Customize a report of an endpoint's policies, recovery keys, or details. See Shield Detail.
Notifications	Customize a report of news, alerts, and events or email notifications. See <u>Notifications</u> .
Log Analyzer - Allows you to monitor policy modifications or policies that were committed.	Customize a report of policy modifications or logs based on message priority level, date and time periods, and occurrences of usernames and hosts. See <u>Log Analyzer</u> .

Audit Event	Provides reports on the audit trail of file activity for Windows, Mac, mobile devices, and the web client.
	Data Guardian and Audit Events
	Get Started with Data Guardian Audit Events
ATP Event	Provides reports of events for the entire enterprise based on information available in the Security Management Server.
	See Advanced Threat Events tab filters.
EMS Event	Provides data about events that occur when external media is used.
Bitlocker Manager	Customize a report to see if Bitlocker is enabled and to view details. See Manager Detail (Windows only).
Windows Encryption Failures	Provides a report on files that were not encrypted on a Windows Encryption client. See Endpoints and Endpoints Details & Actions.
Windows Shield User Encryption Status	For Windows, provides a report more focused on the user and a device, for example if one device has multiple users. See Shield_Detail and Protected Status .

Query using Search and More... to filter

The Search field performs a text-only quick search across multiple fields and may return numerous results.

- Hover to view columns that apply to this search, then enter specific text for those columns.
- Use * for a wildcard.

To filter and narrow the search with More...:

- Select More... and click a checkbox. Checkboxes differ for each report type. You can select one or multiple checkboxes to narrow the search.
- An additional field displays for that checkbox option where you can either enter text to search on that column or select from a list of enumerators or a data type for that column.

Query example for Log Analyzer report

- 1. In Columns, select options. From menu options such as, **Priority** and **Category** select enumerators. **Created** allows you to filter by date.
- 2. Enter text in the Search field to perform a quick search on *Username* and *Message*.
- 3. For additional filtering, select More... and then select Username, Message, or both. Additional text fields allow you to limit the text search specifically to that column.

Query example for BitLocker Manager report

- 1. In Columns, select options.
- 2. Enter text in the Search field to perform a quick search on Registered User.
- 3. For additional filtering, select More.... and then select one or more options. Additional text fields allow you to limit the text search to that column:
 - Registered User enter text to search specifically on that column.
 - Bitlocker Enabled or TPM Enabled Boolean search specifically on those columns.
 - Disk Status and Logical Disk Status Enumerator searches specifically on those columns.

Export File

Export to Excel or a .csv file.

Compliance Reporter

Compliance Reporter has its own help system. When Compliance Reporter launches, click the Help link on the top menu.

To launch Compliance Reporter:

- 1. In the left pane of the Remote Management Console, click Compliance Reporter.
- 2. When Compliance Reporter launches, log in with superadmin credentials or reporting credentials.

Data Guardian Audit Events

In the Remote Management Console, Data Guardian audit event logs maintain an audit trail of file activity for Windows, Mac, mobile devices, and the web client. By alternating between a map visualization and multiple filter options, you can access audit data in various ways, from a global overview to specific geolocations or audit data on a specific file or a specific user. This audit data offers the potential to visually identify data security breaches or preliminary security risks.

To view audit events in the Remote Management Console, select **Reporting > Audit Events**. The Audit Events page contains the map visualization and columns for filtering. For tips on getting started, see <u>Get Started</u> with Data Guardian Audit Events.

Map visualization

In Populations > Global Settings, if you enable the *Data Guardian Geo Location Audit Data* policy and have the operating system's geolocation API, audit events that are sent to the Dell Server include the geolocation data (latitude and longitude) of each device. A map visualization of the enterprise's audit events can identify device locations that might indicate significant location changes or unexpected/questionable locations for devices within an enterprise. The system checks geolocation periodically, not each time an event is recorded. See Examples_of_Map_Visualization_and_Column_Filters.

If the policy for geolocation is disabled, no geolocation data is contained in the audit events that are sent to the Dell Server.

The map displays the following:

- Marker cluster A numeric value represents audit events within a similar area. Hover over the
 marker cluster to view an outline of the determined area. Click a marker cluster to zoom to the
 audit event markers within that cluster. Continue to click on marker clusters until you see blue
 markers.
- Blue marker Represents the location of a single audit event.
 - Click a marker and it can list the Device, File, User, and Timestamp for that marker's audit
 event.
 - The audit event can be a combination of the device and user that caused the audit event, for example: One device or user accessed one file. Multiple devices or users accessed one file, and the timestamp indicates the user who last accessed the file. One user accessed numerous files.
- Mapping points of interest and points visible If you scroll to the bottom right of the columns, the
 total number of items in the column displays. The map displays only files that have geolocation data
 (latitude and longitude). If a column lists 1000 files, but some lack geolocation data, the map
 displays only the points with geolocation data.
 - For performance purposes, the map limits the display to the first 2000 audit events that have latitude/longitude points in the table. It also varies depending on the filters you set.

• If you drill in on the marker cluster, the map lists the total points of interest and the visible points.

Note: Files that lack geolocation data and display only in the columns still provide some information for auditing.

• Show only visible check box - If you click a marker cluster, the map displays only the area for that cluster but the columns list all audit events in the original query. On the lower right of the map, click this check box and the columns list only the audit events for those visible map points. As you continue to drill down, the columns list only the events for the visible map points. Clear the check box to return to the global view.

Audit event options and filters

Use these options to determine the type and amount of audit event data to display.

- Moniker By default, information displays for all monikers. Click one or more check boxes to display specific monikers. Click Clear selected items to display all.
 - Cloud Encryption
 - Protected Office
 - <u>System</u> Populates the user logged into or logged out of the device that has Data Guardian installed.
 - <u>Beacon</u> Indicates a device without Data Guardian installed that tried to access a
 protected file. These audit events may have limited data, for example, the location
 where the file was accessed but without the name of the user of the device.
- Timestamp Select the amount of past time for audit events to display 1, 7, 14, 30, 60, or 90 days.
- More If you set filters and create a query, you can select the filter options in More to modify the query. As you select an option, it displays as a menu dropdown. Some actions apply to Windows, Mac, and mobile devices. Some are specific to one or more.
 - Action The default is AII. Click one or more check boxes to display specific actions
 associated with the payload file. See Action and the tables below for details and to
 determine the operating system.
 - Cloud Action The default is All. Click one or more check boxes to display the reason for an Action. See <u>Cloud_Encryption_audit events</u> and the tables below for details and to determine the operating system.
 - Data Guardian Action The default is All. Click one or more check boxes to display the reason for an Action. See Protected_Office_Document_audit_events and the tables below for details and to determine the operating system.
 - Net Action (Cloud Encryption Windows only) Identifies attempts by a user or device to open an application or browser, but the attempt was blocked; or, attempts to proxy through, but the address was blocked. See <u>Net Action</u>.
- Grouping Allows you to select one option. The default is None. Here are some examples:
 - Moniker Groups by moniker if you have more than one selected.
 - Device or User Allows you to determine the activity of specific devices or users.
 - File Name, File Path or File KeylD With Device and User columns added, allows you to see which users or devices accessed a file.

- Columns Filter the amount of data by selecting one or multiple columns to display. If you clear all
 column check boxes, audit events are listed for all endpoints and all users. Some filters apply to all
 monikers and some to specific monikers. For a description of column filters, see Options in the
 Columns dropdown.
- Search field Hover to view columns for performing a search (Device, User, File Name, and File KeylD), then enter specific text for those columns. Use a wildcard (*) to search on .docx, .pptx, .xlsx, .docm, .pptm, .xlsm, or .pdf.
- Export File Export to Excel or a .csv file.

Options in the Columns dropdown

Options can apply to all monikers or to a specific moniker. Policies must be enabled for audit data to display.

Search icons in the columns - If you click the Search icon next to an item in the Device, User, File Name, or KeylD columns, it copies the cell content to the Search field and executes a search on that content. You can then select Action or IP address to do additional filtering.

Column options for all audit events

Audit Event - Column options	Description
Moniker - Select one or more.	Category of the audit event:
	Cloud Encryption
	Protected Office
	System
	Beacon
Device	The host name of the device where the event occurred.
User	User associated with the event.
	Note: Typically, this is the email address of the activated user. See also <u>Logged In User</u> .
Logged In User	For manual activations or external users, the login name and email address used to activate against the Server may differ. If you do not recognize the User name, open the log files to view the logged-in user name. • In the log file for Cloud Encryption, information displays as sl_xen_file. • In the log file for Protected Office, information displays as sl_protected_file.
Timestamp	Date and time when the event occurred.
Created	Date and time when the Dell Server created the entry in the database. View this if a delay occurs.
Column options related to payload data:	Data for an audit event's moniker or parameters. Parameters may differ for each audit
File Name	event but are the same within the event. For example, the data may differ for sl_xen_file and sl_protected_file, but the data for each Cloud Encryption .xen file event is the same.
File Path	To search for a specific file, use the file KeylD
File KeyID	
File Size	
Client Type	Indicates whether the client is internal or external
Action	The action associated with the payload file. See Cloud_Encryption_audit events or Protected_Office_Document_audit events .
Version	For internal Dell use only.

Column options for Protected Office only

Audit Event - Column options	Description
Data Guardian Action	If a service acts on a protected Office file, for example, modifying or deleting a file, the Data Guardian Action column lists the reason. See Protected_Office_Document_audit events .
Column options related to Embargo:	From - The time that an external user can start viewing a protected file.
From	To - The time that an external user can no longer view a protected file.
То	

Protected Office Document audit events

This table lists audit events that apply to Office documents:

- For Windows, audit events apply to Opt-in or Force Protected modes.
- Mac and Mobile have Opt-in mode only.

Actions for audit events	Data Guardian Action and Description	Windows	Mac	Mobile device	Web portal
Created	New Opt-in mode - logs an event when a user selects Save As Protected and an Office document is protected. Force-Protected mode - logs events when Data Guardian performs a sweep and creates protected Office documents.	•	•	•	•
Accessed	Open A user opened a protected Office document.	•	•	•	•
Modifed	Swept For Windows, when Force Protected is set to On, provides data on files that were swept and converted from unprotected to protected Office.	•	•		
Modifed	Updated Summary of the number of times a file was changed since the last audit data transmission.	•	•	•	•
Modifed	Watermarked User printed a file or exported a file with a watermark.	•			
Accessed (Windows only)	Block Copy Indicates a file where a user tried to copy from a protected Office document to an unprotected file and was blocked.	•			
Accessed (Windows only)	Blocked Print Indicates a file where a user tried to print a protected Office document and was blocked.	•			
Accessed	Detected tampering Tampering was detected in the .xen file portion of a protected Office document. This audit event alerts you to the tampering, but the .xen file cannot be repaired. For the Web portal, tampering is detected on protected Office documents but not .xen files.	•	•	•	•
Modifed	Repaired tampering Tampering was detected in the wrapper of the protected Office document, which contains the cover page that opens in the cloud or on a device that does not have Dell Data Guardian. Data Guardian repaired the wrapper or cover page.	•	•	•	•
Attempt Access	Request Access An external user requested a key for a file to which they do not have access or the access time has expired. Audit data includes User account, timestamp, filename, keyID, and geolocation if enabled by policy.	•	•	•	

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Modifed	Unprotected: A Mac user unprotected a protected Office file. Windows - opt-in mode only.	(Opt-in mode)	•		
Deleted (Mac only)	Deleted The user deleted a .xen file from the cloud sync folder.		•		
Accessed (Mobile only)	Geo Blocked A user outside the geofence tried to access a protected document, and the attempt was blocked.			•	

Column options for System (protected Office documents and Windows)

The following actions relate to the system, so they have no corresponding Data Guardian action.

Audit Event - Column options	Description
Login	If a user logged in and did a fast-user switch, for example, logged in and then rebooted.
Logout	User logged out of a session.
Blocked PrintScreen (Windows only)	Indicates a file where a user tried to capture a screen while a protected Office document was open and is blocked.
Blocked Process (Windows only)	When policy blocks a specified process executable, indicates a file where a user tried to run that process executable.

Column options for Beacon only (protected Office documents)

Audit Event - Column options	Description
Column options related to geolocation: IP Address Routable Geo Type Latitude Longitude	IP Address - When a Beacon event comes in and the Beacon server can determine the location of the event, it lists the IP address. Routable - True or False If True, geolocation data should exist for that IP address and will identify the device's latitude and longitude based on each operating system's APIs. Note: If the Routable column lists True, but no geolocation data displays, an error occurred. If False, the IP address is non-routable. Latitude and longitude - The data visualization is based on these coordinates rather than a street address. Usually, the map visualization displays the location of the device. If a user accesses the computer remotely and neither GPS or WiFi is available, the map visualization may display the location based on the remote computer's VPN IP address. The column lists the coordinates as plus (+) or minus (-), correlating to North, South, East, or West. Geo Type - Typically, this is Point.

Column options for Cloud Encryption only

Audit Event - Column options	Description
Provider	Cloud storage provider.
Cloud Name	The .xen file name (if a policy creates a GUID, you can see the filename here).
Cloud Action	If a service acts on a .xen file, the Cloud Action column lists the reason. See Cloud_Encryption_audit events.
Process Address	Process - Migration of Cloud Encryption events. A system event from the client performs an action on the .xen file.
Application	Application - App indcates this is part of the Cloud Encryption application.

management (Windows only):	If the Folder Management Enabled policy in Data Guardian > Cloud Encryption is enabled for an endpoint, a user can select the Dell Data Guardian icon in the endpoint's system
Folder Patri	tray, select Manage Folders, and manually protect or unprotect a sync client folder. Typically, this policy is enabled for a manager on a temporary basis.
Folder Protection	This audit event allows you to monitor overrides to protected folders and investigate if files that need to be encrypted are now decrypted.

Cloud Encryption audit events

This table lists audit events that occur for files or folders stored in the cloud sync client folders. Events may differ slightly for Windows, Mac, and mobile devices.

Actions for audit events	Cloud Action and Description	Windows	Mac	Mobile device
Created	Encrypt In the cloud sync client folder, Data Guardian encrypted a file, creating a .xen file.	•	•	•
Unprotected	Decrypt Data Guardian decrypted a .xen file.	•	•	•
Deleted	Deleted A user deleted a .xen file from the cloud sync folder.	•	•	•
N/A	Upload Lists the folder path and whether the folder was protected.	•	•	

Column options for Net and Cloud Encryption only

Audit Event - Column options	Description
Net Action	Blocked (Relates to .NET information)
(Windows)	Attempts by a user or device to open an application or browser, but the attempt was blocked.
	Attempts to proxy through, but the address was blocked.

Examples of Map Visualization and Column Filters

You can alternate between drilling in at the map level and drilling in at the filter and Search level. Here are some examples.

- Endpoint or endpoint group If geolocation is enabled, the map displays the location of the events for each endpoint's .xen and protected Office files. If the map indicates protected files in an unexpected location, you can use the audit data to identify who modified the file. If several users modified the file, you can filter the Timestamp column to determine the last person who modified it.
- User You can audit a users' file activities. For example, in Columns, if you select Action, the
 protected Office files for that column can list *Created* or *Modified*. If you also select Data Guardian
 Action, the column lists the reason for a user modifying files, such as *Updated* or *Swept*. For
 information on Action and Data Guardian Action, see Options in the Columns dropdown, Cloud
 Encryption audit events, and Protected Office Document audit events.
- 1. In the global view, drill in to a marker cluster and select a blue marker.
- 2. Select the Show only visible check box for the columns to list only the files for that audit event.
- 3. Click a quick search icon next to a Device, User, File Name, or KeylD.

- 4. If you click a User quick search, you can then click a File Name quick search icon and the map zooms in to the location of the user when the file was accessed.
- 5. Clear the Search field and press **Enter** to return to the global map view.

Return to Data Guardian policies.

Get Started with Data Guardian Audit Events

Before you begin, navigate to **Populations** > **Global** > **Settings** and select the *Data Guardian Audit Data Enabled* policy for these policy groups:

- Audit Control Policies (for Windows or Mac)
- Web Portal Audit Policies
- Mobile Audit Control Policies

In the Remote Management Console > Reporting > Audit Events, use these examples to get started.

For detailed information about column options, see Data Guardian and Audit Events.

Audit Protected Office Documents

To audit protected Office documents only:

- 1. In Moniker, select Protected Office.
- 2. In More, select Action and Data Guardian Action.
- 3. In Columns, select Device, User, Timestamp, File Name, and File KeylD.
- 4. Optionally, in **Grouping**, select one item like **Device** or **User** to sort.
- 5. Select Export File > Excel or CSV to view the data for the *Action* and *Data Guardian Action* columns. For more information, see Protected_Office_Document_audit_events. Optionally, you can export the audit events to a SIEM Server.
- 6. To identify issues, return to the Remote Management Console, click the **Data Guardian Action** dropdown, and select:
- Block Copy (for Windows) indicates a Windows user tried to copy from a protected Office document and was blocked.
- Geo Blocked (for Mobile) indicates a mobile user outside a geofence tried to access a protected document and the attempt was blocked.

If these options display in the Data Guardian Action column, click the Search icon next to that user or device. In the Data Guardian Action dropdown, click Clear selected items and view all the actions by that user or device to determine a potential issue. For more information, see Protected_Office_Document_audit_events.

- 6. To identify issues, select the Data Guardian Action dropdown and select the following:
- Detected tampering
- Repaired tampering

If these options display, determine any potential issues.

6. For Windows, in Moniker, select System. In Action, select Login and Logout to identify a user who logged into the device that has Data Guardian installed.

7. Analyze the data in the Remote Management Console or select **Export File > Excel** or **CSV** where you can sort the data. Optionally, you can export the audit events to a SIEM Server.

Audit events related to external users

In addition to the steps above:

- 1. In Columns, select:
- Client Type to indicate internal or external users.
- From and To to audit embargo and external users.
- Request Access an external user requested access to keys from an internal user.
- 2. Analyze the data in the Remote Management Console or select **Export File > Excel** or **CSV** where you can sort the data. Optionally, you can export the audit events to a SIEM Server.

Map visualization

You can use this to identify protected Office files in an unexpected location or a non-Data Guardian Device that tries to access a protected Office document.

For map data to display, you must enable policy. See Global > Settings, Audit Control Policies or Mobile Audit Control Policies, and select the *Data Guardian Geo Location Audit Data* policies. For Beacon events, see the advanced settings for Data Guardian > Protected Office or Mobile Client, and select the *Enable Callback Beacon* policies.

- 1. In Moniker, select Protected Office and Beacon.
- In the global map view, drill in to a marker cluster in an unexpected location and select a blue marker.
- 3. Select the Show only visible check box for the columns to list only the files for that audit event.
- 4. Click a quick search icon next to a Device, User, File Name, or File KeylD.
- 5. If you click a User quick search, you can then click a File Name quick search icon and the map zooms in to the location of the user when the file was accessed.
- 6. Analyze the data in the Remote Management Console or select **Export File > Excel** or **CSV** where you can sort the data. Optionally, you can export the audit events to a SIEM Server.
- 7. Clear the Search field and press Enter to return to the global map view.

Audit Cloud Encryption

To audit protected .xen files only:

- 1. In Moniker, select Cloud Encryption.
- 2. In More, select Action and Cloud Action.
- 3. Initially, in Columns, select Device, User, Timestamp, File KeylD, Provider, Action, and Cloud Action.

Windows and Network action

If the Net Action column lists *Blocked*, this indicates that a user or device attempted to open an application or browser, but the attempt was blocked. Or, they attempted to proxy through, but the address was blocked.

- 1. In More, select Net Action.
- 2. In Columns, select Net Action.

3. Analyze the data in the Remote Management Console or select **Export File > Excel** or **CSV** where you can sort the data. Optionally, you can export the audit events to a SIEM Server.

Default Monikers and Columns

If you leave the defaults, all monikers and columns display. You can select one item from Grouping to sort monikers or column options. You can select options in the dropdowns to minimize the data that displays.

EU General Data Protection Regulation (GDPR)

For privacy laws in Europe, you can disable audit events. See Enterprise > Global Settings > Settings > Web Portal Audit Policies.

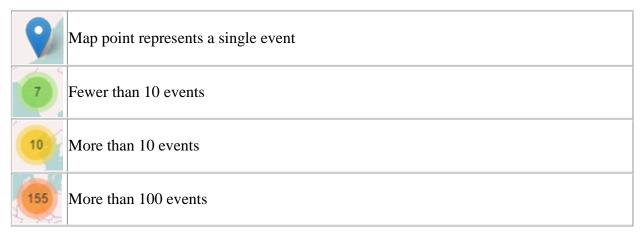
View Audit Events (Geolocation)

Click **Audit Events** in the left pane of the Remote Management Console to view geographic map points of file events on computers and devices running Dell Data Guardian.

For a list of audit event types, see **Dell Data Guardian and Audit Events**.

For information about exporting audit events to a SIEM server, see Export Dell Data Guardian Audit Events to SIEM Server.

Map points are color coded to indicate the number of audit events in a location:



Use the + and - icons in the upper left corner of the map to zoom in or out. Drag the map to view different areas of the map.

To view individual events for map points representing multiple events, use the + icon in the upper left corner to zoom in on the map point. Click an individual map point within the group of points to view the event.



Event Data

Event data displays below the map about the events represented on the map. Narrow the amount of data displayed by using the + icon in the upper left corner of the map to zoom in. Expand the amount of data displayed by using the - icon in the upper left corner of the map to zoom out.

Filter the event data with the following fields, which are immediately below the map:

Event Type - Dell Data Guardian Cloud Encryption, Protected Office, or Beacon

Timestamp - Event date and time

Device - Device type and identifier (hostname, serial number, IMEI/MEID, CDN)

User - User name in UPN format

File KeyID - GUID that identifies the key used to protect the file

File Name - File name with extension

Action - File action that triggered the event

Dell Data Guardian Action - Action taken by Dell Data Guardian, based on policy and the file action that triggered the event

Select columns to display from the drop-down Columns list.

Export Events to a SIEM/Syslog Server

Integrating with a SIEM/syslog server allows administrators to run customized analytics on threat and audit data within their environments. Security Management Server and Security Management Server Virtual support export of Advanced Threat Prevention and Data Guardian events.

To export audit events to a syslog server or to a local file:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- 2. Select the Events Management tab.

3. Select the appropriate option(s):

Export to Local File allows you to export audit events to a file. Enter the location in which to store the file. This option also provides a backup of the audit events database.

Export to Syslog lets you specify the syslog server to which to export the file. If TCP protocol is not selected, select it.

Click the Save Preferences button.

Export Audit Events with TLS/SSL over TCP

To use TLS/SSL, the syslog server must be configured to listen for TLS/SSL messages. The root certificate used for the syslog server configuration must be added to the Dell Server Java keystore.

The following example shows necessary configurations for a Splunk server with default certificates. Configurations are specific to individual environments. Property values vary when using non-default certificates.

1. Configure the Splunk server to use the Splunk Server certificate and root certificate to listen on TCP for TLS/SSL messages:

\$\$PLUNK_HOME\etc\system\local\inputs.conf

```
[tcp-ssl:<port number>]
disabled = 0
[SSL]
serverCert = $SPLUNK_HOME\etc\auth\server.pem
sslPassword = <password>
requireClientCert = false
```

\$\$PLUNK_HOME\etc\system\local\server.conf

```
[sslConfig]
sslRootCAPath = $SPLUNK_HOME\etc\auth\cacert.pem
sslPassword = <password>
```

2. Restart the Splunk server.

After the restart, splunkd.log will have entries similar to the following:

```
07-10-2017 16:27:02.646 -0500 INFO TcpInputConfig - IPv4 port 5540 is reserved for raw input (SSL)
```

07-10-2017 16:27:02.646 -0500 INFO TcpInputConfig - IPv4 port 5540 will negotiate new-s2s protocol

07-10-2017 16:27:02.653 -0500 INFO TcpInputConfig - IPv4 port 5540 is reserved for raw input (SSL)

07-10-2017 16:27:02.653 -0500 INFO TcpInputConfig - IPv4 port 5540 will negotiate new-s2s protocol

07-10-2017 16:27:02.653 -0500 INFO TcpInputConfig - IPv4 port 9997 is reserved for splunk 2 splunk

07-10-2017 16:27:02.653 -0500 INFO TcpInputConfig - IPv4 port 9997 will negotiate new-s2s protocol

07-10-2017 16:27:02.653 -0500 INFO TcpInputProc - Creating raw Acceptor for IPv4 port 5540 with SSL

07-10-2017 16:27:02.653 -0500 INFO TcpInputProc - Creating raw Acceptor for IPv4 port 5541 with Non-SSL

07-10-2017 16:27:02.654 -0500 INFO TcpInputProc - Creating fwd data Acceptor for IPv4 port 9997 with Non-SSL

3. Configure the Dell Server to communicate with the Splunk server and export audit events.

Use the keytool command to add the Splunk server's root certificate (cacert.pem) to the Dell Server operating system Java keystore. The certificate is added to the operating system Java keystore and not to the Dell Server application Java keystore.

keytool -keystore <keystore_location> -alias <alias-name> -importcert -file <certificate_file>

For Security Management Server - Add the Splunk server's root certificate (cacert.pem) to the Java keystore, which in Windows is usually located in this path: C:\Program Files\Dell\Java Runtime\jre1.8\lib\security\cacerts

For Security Management Server Virtual - Add the Splunk server's root certificate (cacert.pem) to /etc/ssl/certs/java/cacerts and restart the Dell Server.

4. Modify the Dell Server database to change the SSL value from false to true:

In the database, navigate to the information table, SIEM-specific support configuration.

Change the "SSL": "false" value to "SSL": "true" - for example:

{"eventsExport":{"exportToLocalFile":{"enabled":"false","fileLocation":"./logs/siem/audit-export.log"},"exportToSyslog":{"enabled":"true","protocol":"TCP","SSL":"true","host":"yourDellServer.yourdomain.com","port":"5540"}}}

Advanced Threat Prevention Syslog Event Types

Following are event types that are supported with the Syslog/SIEM Advanced Threats option.

Application Control

This option is only visible to users who have the Application Control feature enabled. Application Control events represent actions occurring when the device is in Application Control mode. Selecting this option will send a message to the Syslog server whenever an attempt is made to modify or copy an executable file, or when an attempt is made to execute a file from an external device or network location.

Example Message for Deny PE File Change:

```
CylancePROTECT: Event Type: AppControl, Event Name: pechange, Device Name: WIN-7entSh64, IP Address: (192.168.119.128), Action: PEFileChange, Action Type: Deny, File Path: C:\Users\admin\AppData\Local\Temp\MyInstaller.exe, SHA256: 04D4DC02D96673ECA9050FE7201044FDB380E3CFE0D727E93DB35A709B45EDAA
```

Example Message for Deny Execution from External Drive:

```
CylancePROTECT: Event Type: AppControl, Event Name: executionfromexternaldrives, Device Name: WIN-7entSh64, IP Address: (192.168.119.128), Action: PEFileChange, Action Type: Allow, File Path: \\shared1\psexec.exe, SHA256: F8DBABDFA03068130C277CE49C60E35C029FF29D9E3C74C362521F3FB02670D5
```

Devices

Select this option to send device events to the Syslog server.

 When a new device is registered, two messages for this event are received: Registration and SystemSecurity.

Example Message for Device Registered Event:

```
Event Type: Device, Event Name: Registration, Device Name: WIN-55NATVQHBUU

Event Type: Device, Event Name: SystemSecurity, Device Name: WIN-
55NATVQHBUU, Agent Version: 1.1.1270.58, IP Address: (10.3.0.154), MAC Address: (005056881877), Logged On Users: (WIN-55NATVQHBUU\Administrator), OS: Microsoft Windows Server 2008 R2 Standard Service Pack 1 x64 6.1.7601
```

When a device is removed.

Example Message for Device Removed Event:

```
Event Type: Device, Event Name: Device Removed, Device Names: (:
), User: (:
)
```

When a device's policy or logging level has changed.

Example Message for Device Updated Event:

```
Event Type: Device, Event Name: Device Updated, Device Message: Renamed: 'WIN-SSNATVQHBUU' to 'WIN-2008R2-IRV1'; Policy Changed: 'Default' to 'IRVPolicy1';
```

Memory Protection

Selecting this option will log any Memory Exploit Attempts that might be considered an attack from any of the Tenant's devices to the Syslog server.

There are four types of Memory Exploit actions:

- None: Allowed because no policy has been defined for this violation.
- Allowed: Allowed by policy.
- Blocked: Blocked from running by policy.
- Terminated: Process has been terminated.

Example Message of Memory Protection Event:

```
Cyl CylancePROTECT: Event Type: ExploitAttempt, Event Name: blocked, Device Name: WIN-7entSh64, IP Address: (192.168.119.128), Action: Blocked, Process ID: 3804, Process Name: C:\AttackTest64.exe, User Name: admin, Violation Type: LSASS Read
```

Script Control

Selecting this option will log any newly found scripts that have been blocked or have triggered an alert to the Syslog server.

Syslog Script Control events contain the following properties:

- Alert: The script is allowed to run. A script control event is sent to the Security Management Server.
- Block: The script is not allowed to run. A script control event is sent to the Security Management Server.

Example Message of Script Control

```
CylancePROTECT - - - Event Type: ScriptControl, Event Name: Blocked, Device Name: Fake_Device, File Path: d:\windows\system32\windowspowershell\v2.1\newlyMade.vbs, Interpreter: active, Interpreter Version: 6.1.7600.16385 (win7_rtm.090713-1255)
```

Threats

Select this option to log any newly found threats or changes observed for any existing threat, to the Syslog server. Changes include a threat being Removed, Quarantined, Waived, or Executed.

There are five types of Threat Events:

- threat_found: A new threat has been found in an Unsafe status.
- threat_removed: An existing threat has been Removed.
- threat_quarantined: A new threat has been found in the Quarantine status.
- threat_waived: A new threat has been found in the Waived status.
- threat_changed: The behavior of an existing threat has changed (examples: Score, Quarantine Status, Running Status).

Example Message of Threat Event:

```
Event Type: Threat, Event Name: threat_found, Device Name:

1, IP Address: (i ), File Name: virusshare_00fbc4cc4b42774b50a9f71074b79bd9,
Path: c:\ruby\host_automation\test\data\test_files\, SHA256:

1EBF3B8A61A7E0023AAB3B0CB24938536A1D87BCE1FCC6442E137FB2A7DD510B, Status: Unsafe,
Cylance Score: 100, Found Date: 6/1/2015 10:57:42 PM, File Type: Executable, Is
Running: False, Auto Run: False, Detected By: FileWatcher
```

Threat Classifications

Hundreds of threats are classified each day as either Malware or Potentially Unwanted Programs (PUPs). If this option is selected, you subscribe to be notified when these events occur.

Example Message of Threat Classification:

```
Event Type: ThreatClassification, Event Name: ResearchSaved, Threat Class: Malware, Threat Subclass: Worm, SHA256: 1218493137321C1D1F897B0C25BEF17CDD0BE9C99B84B4DD8B51EAC8F9794F65
```

SIEM (Security Information and Event Management)

Specifies the type of Syslog server or SIEM that events are to be sent to.

Protocol

This must match what is configured on your Syslog server. The choices are UDP or TCP. UDP is generally not recommended as it does not guarantee message delivery. Dell recommends TCP (default).

TLS/SSL

Only available if the Protocol specified is TCP. TLS/SSL ensures the Syslog message is encrypted in transit from Advanced Threat Prevention to the Syslog server. Dell encourages customers to select this option. Ensure that the Syslog server is configured to listen for TLS/SSL messages. To use TLS/SSL, it is necessary to configure the Syslog server and import certificates. For more information, see Export Audit Events with TLS/SSL over TCP.

IP/Domain

Specifies the IP address or fully-qualified domain name of the Syslog server that the customer has setup. Consult with your internal network experts to ensure firewall and domain settings are properly configured.

Port

Specifies the port number on the devices that the Syslog server listens for messages. It must be a number between 1 and 65535. Typical values are: 512 for UDP, 1235 or 1468 for TCP, and 6514 for Secured TCP (example: TCP with TLS/SSL enabled).

Severity

Specifies the severity of the messages that should display in the Syslog server. This is a subjective field, and it may set to whatever level preferred. The value of severity does not change the messages that are forwarded to Syslog.

Facility

Specifies what type of application is logging the message. The default is Internal (or Syslog). This is used to categorize the messages when they are received by the Syslog server.

Testing the Connection

Click Test Connection to test the IP/Domain, Port and Protocol settings. If valid values are entered, after a couple of moments, a success confirmation displays.

Advanced Threat Prevention Syslog IP Addresses

Syslog server IP addresses to allow, by region:

US (includes my.cylance.com and my-vs2.cylance.com):

52.2.154.63

```
52.20.244.157
```

52.71.59.248

52.72.144.44

54.88.241.49

AU (my-au.cylance.com):

52.63.15.218

52.65.4.232

EU (my-vs0-euc1.cylance.com and my-vs1-euc1.cylance.com):

52.28.219.170

52.29.102.181

52.29.213.11

Note: This IP Address should remain static.

For the latest IP addresses for Syslog messages, contact Dell ProSupport.

Management

Commit Policies

Uncommitted policies display in a badge icon in the top left of the Remote Management Console. Click the badge icon to navigate to Management > Commit.

To commit polices that have been modified and saved:

- 1. In the left pane of the Remote Management Console, click Management > Commit.
- 2. Enter a description of the change in the Comment field.

Best practice: add a comment about the changes that are committed.

3. Click Commit Policies.

A policy publication/commit occurs when an administrator clicks **Commit Policies**. The following information displays:

Pending Policy Changes - The number of policy changes ready to commit.

Date Committed - Date and time the policies were committed.

Changed by - User name of the administrator who performed the policy commit.

Comment - Any comments that were added when the polices were committed.

Version - The number of policy saves since the last policy commit plus the previous Version.

Log Analyzer

Log Analyzer gives you the power to search logs by message priority level, date and time periods, and occurrences of usernames and hosts.

To view or export Remote Management Console logs:

- 1. In the left pane of the Remote Management Console, click Management > Log Analyzer.
- 2. Select a Category.

The Categories are Admin Actions, Shield for Server Events, Policy, Advanced Threat Events, System Logs, Whitelist, and Full Access List.

- 3. To narrow the results, select from these optional filters:
 - Priority Choose DEBUG, INFO, WARN, ERROR, or FATAL. FATAL returns fewest entries; DEBUG returns the greatest number of entries.
 - And more severe Check this option to include all areas of greater severity than the Priority level you selected.
 - Date Range Enter a Start Date and End Date to limit results to entries that occur between these dates. To insert dates into these fields, click the calendar icons to the right of the fields.
 - Time Range If you entered a Date Range, you may further narrow the entries by entering a Start Time and End Time. To insert times into these fields, click the calendar icons to the right of the fields.
 - Username and Host Enter a either a Username or Host or both.
- Click Search.
- 5. To sort the results in ascending order by column, click the heading of the column you want to sort.
- 6. To export the results to an Excel or CSV file, pull down the Export File list and select Excel or CSV. Exported files can hold up to 100,000 records.

Recovery

Recover Data - Encryption External Media Authentication Failure

Encryption External Media encrypts data on removable storage, as defined by policy. There may be several different circumstances where access to Encryption External Media encrypted data needs to be regained. In general, these scenarios fall into two categories:

- The Encryption External Media password is lost or forgotten
- The Encryption External Media software or key material has been lost or corrupted on the device

If more than one Security Management Server or Security Management Server Virtual is part of a federation, to perform Encryption External Media Recovery across Dell Servers in the federation, see Enable Federated Key Recovery.

Manual Authentication when Encryption External Media Password is Lost or Forgotten

If a user has lost or forgotten an Encryption External Media password, manual authentication is necessary.

- The user will be prompted for their password. Since the password is not available, the user clicks I forgot.
- 2. The user is given another opportunity to try again. If the user clicks Yes I forgot, the Manual Authentication window displays (or the Manual Authentication window will automatically display upon the set number of retries allowed).

- 3. The user is instructed to contact their Administrator and inform them that they need to manually recover Encryption External Media for Windows.
- 4. As a Dell Administrator, log in to the Remote Management Console.
- 5. In the left pane, click Populations > Users.
- 6. Enter a filter to search for the user. The wild card character is *. You can enter Common Name, Universal Principal Name, or sAMAccountName.
- 7. Click the search icon.

A user or list of users displays, based on your search filter.

- 8. Locate the appropriate user and click the **Endpoints** tab.
- 9. Locate the appropriate Shielded Endpoint.
- 10. Under Actions, click the Recover link.

The Recover Data page displays.

Tip: Numbers are red and letters are blue.

- 11. Ask the user for the **Shield ID** and verify that it is correct or enter it into the Shield ID field. Shield IDs do not contain the letters B, O, Q, and S.
- 12. Ask the user for the 8, 16, or 32-character **Endpoint Code** (not case sensitive) and enter it into the appropriate field. Endpoint Codes contain only the letters A-F.
- 13. Ask the user for the **Key ID** and enter it into the appropriate field (if your organization allows non-domain user activation, the Key ID is required.
- 14. Click **Generate Access Code**. The Restore User Access page displays the Directory User Alias associated with the Encryption client, along with an Access Code.
- 15. Confirm to your satisfaction that the request is coming from the Directory User Alias shown.

This is especially important if recovering removable storage that may have been given to another user. Dell recommends that you set a help desk policy for how to handle requests from users other than those who originally copied the data.

- 16. Do one of the following:
 - To allow the user to access the endpoint, click **Activate**.
 - To **not** allow the user to access the endpoint, click **Cancel**.
- 17. If the requester is the device authorized user, ask the user to enter the Access Code (not case sensitive) on the endpoint and click **OK**. The Access Code policies of the user affect this process (for example, how many attempts the user has to enter the code correctly).
- 18. When the user successfully enters the Access Code, the Encryption client changes the *Current Shield State* policy to *Activate*, and the successfully entered Access Code is no longer valid. Instruct the user to click **OK** to close the dialog.
- 19. In the left pane, click Management > Commit.
- 20. Click Commit Policies.

Once manual authentication is successful, the user is directed to reset their password. Depending on how policies are set, one of the following three dialogs are displayed. The user enters a new password and confirms it, then clicks **OK** or **Cancel**.

Depending on policies set, the user may be prompted to type this password when using this removable storage in other computers.

If the policy is set to block all access to removable storage until authenticated/encrypted and the user clicks Cancel, they cannot access any files on this removable storage.

If a user re-uses a password that has been used too recently, a dialog displays asking them to use a different password.

If a password does not meet the criteria set by policy, a dialog displays, outlining the password criteria.

If the policy gives read-access to removable storage until authenticated/encrypted and the user clicks Cancel, they can read/delete existing files on this removable storage, but cannot edit/add files to this removable storage.

If a user re-uses a password that has been used too recently, a dialog displays asking them to use a different password.

If a password does not meet the criteria set by policy, a dialog displays, outlining the password criteria.

If the policy gives full access to removable storage until authenticated/encrypted and the user clicks Cancel, they have full access to unencrypted files on this removable storage, but cannot access encrypted files.

If a user re-uses a password that has been used too recently, a dialog displays asking them to use a different password.

If a password does not meet the criteria set by policy, a dialog displays, outlining the password criteria.

The user may now use the removable storage as usual.

If manual authentication is not successful, the device is disabled according to policy, as follows:

- The policy could be set to wait (cooldown) between unsuccessful manual authentication attempts.
- The policy may be set to delete the encryption key material and prevent any access to encrypted files on this removable storage. In this case, the user will need to contact an Administrator again for instructions to re-enable access.

Restore Lost Encryption External Media Key Material

If encryption keys have been deleted on the removable storage (because of failed manual authentication, accidentally deleting a necessary file, a change in policy), the encrypted data will be inaccessible until an authorized user reinitializes the key material.

A dialog displays, notifying the user that key material is missing. Click **Yes** to use the self-healing feature of Encryption External Media or click No.

If the policy blocks all access to removable storage until encrypted and the user clicks No, they cannot access this removable storage.

If the policy gives read-access to removable storage until encrypted and the user clicks No, they have read-access to unencrypted data on this media, but no access to encrypted data.

If the policy gives full access to removable storage, whether or not encrypted and the user clicks No, they have full access to unencrypted data on this media. They cannot access encrypted data.

Occasionally, based on policies set, encryption keys cannot be reinitialized on the computer that the removable storage is inserted in. If policy permits, the user can insert the media into any Dell-encrypted computer where the original user is logged in, to reinitialize the encryption keys. If policy does not permit

this, it must be inserted into the originally encrypting computer, with the originally Dell Encryption user name.

On rare occasions, when key material is lost, the Encryption client cannot automatically locate the necessary information. Use the following process to recover encrypted data.

- 1. Attach the device to a Windows computer that is not running the Encryption client.
- 2. Copy all folders from the device onto the Windows computer.
- 3. Use WSScan to determine the DCID of the encrypted data.
- 4. Follow the process for recovering access to encrypted data on Windows computers. Use the DCID obtained from WSScan for the RecoveryID.

Enable Federated Key Recovery

If more than one Security Management Server or Security Management Server Virtual is part of a federation, to perform Encryption External Media Recovery across Dell Servers in the federation, enable federated key recovery:

- 1. Navigate to <Security Server install dir>\conf\ and open the federatedservers.properties file.
- 2. Update the server.code property with a new a code, password or passphrase to be shared across Dell Servers in the federation. Enclose the code, password, or passphrase within a new CLR() tag, to replace the ENC() tag.

Example: server.code=CLR(mypassword)

- 3. List all the servers to be federated in the server uris property, delimited by a comma.
 - Example: server.uris=https://server1.company.com:8443,https://server2.company.com:8443
- 4. Save and copy the federatedservers.properties file to all Dell Servers that are part of the federation.
- 5. Restart all Security Servers in the federation.

The restart converts the CLR() tag to the encrypted tag, ENC(), in the federatedservers.properties file.

Recover Data - BitLocker Manager

See the *Recovery Guide* for the most up-to-date recovery instructions.

The latest *Recovery Guide* is available at http://www.dell.com/support/home/us/en/19/product-support/product/dell-data-protection-encryption/manuals.

SED Recovery

SED Authentication Failure

Use this procedure to recover access to a computer with an SED drive after an authentication failure.

- 1. In the left pane, click Management > Recover Data.
- 2. Click the SED tab.
- 3. Under Recover SED Endpoint, enter the Hostname of the computer.

You can find the Hostname at **Populations > Endpoints**. If you know the full Hostname of the endpoint, enter it in the *Search* field. You can leave the field blank to display all Windows and Mac endpoints.

- 4. In the SED drop-down, select the correct self-encrypting drive.
- 5. Instruct the user to give you the Challenge Code. Enter the Challenge Code and click **Generate Response**.
- 6. A Response Code displays. Instruct the user to enter this code on their computer.

SED Endpoint Recovery

For instructions on how to recover an SED Endpoint, see the *Recovery Guide*. The latest *Recovery Guide* is available at any of these locations:

Encryption - http://www.dell.com/support/home/us/en/19/product-support/product/dell-data-protection-encryption/manuals

Threat Protection - Endpoint Security Suite Pro - http://www.dell.com/support/home/us/en/19/product-support/product/dell-dp-endpt-security-suite/manuals

Advanced Threat Prevention - Endpoint Security Suite Enterprise - http://www.dell.com/support/home/us/en/19/product-support/product/dell-dp-endpt-security-suite-enterprise/manuals

Security Tools - http://www.dell.com/support/home/us/en/19/product-support/product/dell-data-protection-security-tools/manuals

Recover Endpoint

To download encryption keys of a managed or removed endpoint:

NOTE: Select Include Removed Endpoints to display endpoints that were previously removed.

- 1. In the left pane, click Management > Recover Endpoint.
- 2. Enter the Hostname and click Search.
- 3. Click Recover next to the endpoint.
- 4. Enter a password then click **Download**.
- 5. Copy the recovery file to the endpoint and run the file.

Windows Recovery

For Windows Recovery, follow the instructions in the *Recovery Guide*.

The latest *Recovery Guide* is available at these locations:

Encryption - http://www.dell.com/support/home/us/en/19/product-support/product/dell-data-protection-encryption/manuals

Threat Protection - Endpoint Security Suite Pro - http://www.dell.com/support/home/us/en/19/product-support/product/dell-dp-endpt-security-suite/manuals

Advanced Threat Prevention - Endpoint Security Suite Enterprise - http://www.dell.com/support/home/us/en/19/product-support/product/dell-dp-endpt-security-suite-enterprise/manuals

SED Recovery

For information about SED authentication failure or SED endpoint recovery, see <u>SED Recovery</u>.

Encryption External Media Recovery

For information about recovering after Encryption External Media authentication failure, see <u>Encryption</u> <u>External Media Authentication Failure</u>.

Mac Recovery

See the Encryption Enterprise for Mac Administrator Guide for the most up-to-date recovery instructions.

The latest *Encryption Enterprise for Mac Administrator Guide* is available at http://www.dell.com/support/home/us/en/19/product-support/product/dell-data-protection-encryption/manuals.

License Management

License Management

To view usage of Client Access Licenses (CALs) that you own and upload new licenses, click Management > License Management.

Upload Client Access Licenses

You received CALs separately from the installation files, either at the initial purchase or later if you added additional CALs.

- 1. In the left pane of the Remote Management Console, click Management > License Management.
- 2. Under Upload Licenses, click Choose File to browse to and select the saved CAL.

View or Add License Notifications

Through Notification Management, you can set up notifications of license usage or expiration.

In the left pane of the Remote Management Console, click Management > Notification Management.

Related topics:

CAL Information

Notification Management

CAL Information

When logging in to the Remote Management Console, if there is a problem with your CAL, an error message displays (typically, the error states that the Security Management Server Virtual has exceeded the maximum number of authorized Client Licenses). The next step is to review your CALs to ensure that your enterprise has the appropriate number of CALs to Client ratio (1-to-1 ratio).

If authorized CALs exceed 5% of that specific CAL total, new client activations for that specific product will be blocked until the license key is brought into compliance. No other client or Security Management Server Virtual functions will be impacted when a license key is in the over 105% state. Two separate warning messages are displayed, the first warning message is when the CAL reaches 99% of the authorized licenses, the second when the CAL count reaches or exceeds the 105% total.

For example:

• Authorized CAL for Dell Encryption (Windows): 5000 user licenses

- First warning message from Security Management Server Virtual and an email message is sent to the admin: CAL count reaches 5000
- Second warning message from Security Management Server Virtual and an email message is sent to the admin: CAL count reaches 5250

If a client has previously been activated and inventory records exist, then it will not be blocked from any reactivation. However, if the CAL authorized count is exceeded during this process, new activations will be blocked for the specific CAL that is in the over 105% state.

Licensing

- 1. License structure:
 - a. Disk Encryption (DE) Dell Encryption, Encryption External Media (EMS), SED Management, Full Disk Encryption (FDE), BitLocker Manager (BLM), and Encryption Enterprise for Mac.
 - b. Encryption External Media (EME)
 - c. Dell Data Guardian (CE)
 - d. Threat Protection (TP) includes Malware Protection and/or Client Firewall and/or Web Protection features
 - e. Advanced Threat Prevention (ATP) includes optional Client Firewall and/or Web Protection features
- 2. Dell Digital Delivery of entitlements

License Management Upload Volume Licenses Choose File Client Volume Licenses Owned Valid From Valid To Status OK Advanced Threat Prevention 12/31/1752 6:00 PM 12/31/9999 5:59 PM 10 None Delete 12/31/9999 5:59 PM ОК Data Guardian 12/31/1752 6:00 PM 250 None Delete Threat Protection (Malware and/or Firewall and/or Web Control) 12/31/1752 6:00 PM 12/31/9999 5:59 PM Delete OK Dell Encryption 12/31/1752 6:00 PM 12/31/9999 5:59 PM 250 None Delete Dell Encryption (BitLocker Manager) ОК 12/31/1752 6:00 PM 12/31/9999 5:59 PM 250 None Delete On The Box Licenses Collected Threat Protection (Malware and/or Firewall and/or Web Control) Dell Encryption Dell Encryption (BitLocker Manager) **AND IN** Mobile Edition Threat Protection (Malware and/or Firewall and/or Web Control) Dell Encryption Dell Encryption (BitLocker Manager) 1 - 12 of 12 items 25 ▼ items per page Total Volume and On the Box Seats Used Total OK Dell Encryption 50263 OK Data Guardian 50260 OK Encryption External Media 50523 0 OK Mobile Edition 50263 OK Dell Encryption (BitLocker Manager) 100526 50263 OK Threat Protection (Malware and/or Firewall and/or Web Control) Advanced Threat Prevention 50010

Upload Client Access Licenses

You received CALs separately from the installation files, either at the initial purchase or later if you added additional CALs.

- 1. In the left pane of the Remote Management Console, click Management > License Management.
- 2. Under Upload Licenses, click Choose File to browse to the location of the saved CAL.

Related topics:

CAL Information

License Management

Services Management

Services Management

Access Services Management from the left pane of the Remote Management Console, **Management > Services Management**. The following options are available:

Provision or Recover the Advanced Threat Prevention service - After the service is provisioned, clients are automatically provisioned with Advanced Threat Prevention. For more information, see Provision or Recover Advanced Threat Prevention Service.

Enroll to receive Advanced Threat Prevention agent auto updates - After enrollment, clients can automatically download and apply updates from the Advanced Threat Prevention server. For more information, see Enroll for Agent Auto Update.

Export audit events - Audit events can be exported to a syslog server or to a local file. For more information, see **Export Events to SIEM Server**.

Provision or Recover Advanced Threat Prevention Service

The Advanced Threat Prevention service is provisioned and recovered, if necessary, through the Services Management Advanced Threats tab. Only the System Administrator can provision and recover the service.

After provisioning is complete, the Services Management page displays the contact information of the administrator who provisioned the service and a button, **Back Up Certificate**. To back up the certificate, click **Back Up Certificate** then select **Download Existing Certificate**. Save the certificate to a secure location separate from the server running Security Management Server or Security Management Server Virtual.

Provision service

To provision the Advanced Threat Prevention service:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- Select the Advanced Threats tab.
- 3. Click Setup Advanced Threat Prevention Service.
- 4. Follow the guided setup and complete necessary fields in the Service Setup dialogs.

Regional provisioning to support geographical data centers is available for these regions: NA (North America), EU (EMEA), and AU (APAC).

Dell recommends that you download and back up the Advanced Threat Prevention certificate in a safe location. The certificate will be required if at a future time service recovery is necessary. The guided setup prompts you to download and back up the certificate.

Clients are automatically provisioned with Advanced Threat Prevention.

After provisioning is complete, the **Setup** link no longer displays.

Recover service

You will need your backed up certificate to recover the Advanced Threat Prevention service.

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- Click Recover Advanced Threat Prevention Service.
- 3. Follow the guided service recovery dialogs and upload the Advanced Threat Prevention certificate when prompted.

Enroll for Advanced Threat Prevention Agent Auto Updates

You can enroll to receive Advanced Threat Prevention agent auto updates. Enrolling to receive agent auto updates allows clients to automatically download and apply updates from the Advanced Threat Prevention server. Updates are released monthly.

Receive agent auto updates

To enroll to receive agent auto updates:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- 2. On the Advanced Threats tab, under Agent Auto Update, click the On button then click the Save Preferences button.

Stop receiving agent auto updates

To stop receiving agent auto updates:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- 2. On the Advanced Threats tab, under Agent Auto Update, click the Off button, then click the Save Preferences button.

Events Management - Export Audit Events to a SIEM Server

To export audit events to a syslog server or to a local file:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- Select the Events Management tab.
- 3. Select the appropriate option(s):

Export to Local File allows you to export audit events to a file. Enter the location in which to store the file. This option also provides a backup of the audit events database.

Export to Syslog lets you specify the syslog server to which to export the file. If TCP protocol is not selected, select it.

4. Click the Save Preferences button.

Product Notifications

You can enroll to receive notifications of product updates, recommended configuration changes, and relevant Knowledge Base articles.

Receive product notifications

To enroll to receive product notifications:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- 2. Select the Product Notifications tab.
- 3. Click the On button, then click the Save Preferences button.

Stop receiving product notifications

To stop receiving product notifications:

- 1. In the left pane of the Remote Management Console, click Management > Services Management.
- 2. Select the Product Notifications tab.
- 3. Click the Off button, then click the Save Preferences button.

Notification Management

Notification Management

The Notification Management page lets you manage email notifications.

To add an email notification:

- 1. In the left pane of the Remote Management Console, click Management > Notification Management.
- 2. Click the Add button and fill in the dialog:

Email: Enter or select your email address.

Notification Type: Select the type of alert you want to add.

<u>Priority Level</u>: Select the priority levels of notifications.

Email Frequency: Select how often you want to receive alerts of this type. (Default frequency is 24 hours.)

2. Press Enter when complete.

To edit an alert:

Select the alert you want to change, click Edit, make the changes, and press Enter.

To delete an alert:

• Select the alert you want to delete, and click **Delete**.

Related topics:

License Management

Enable SMTP Server for Email Notifications

Use this procedure if you need to enable the SMTP Server for email notifications for purposes outside of Data Guardian.

When configuration changes are complete, restart the Security Server service. The Security Server service must be restarted in order for the settings to be updated.

NotificationObjects.config

To configure your SMTP server for email notifications, modify the NotificationObjects.config file located at /opt/dell/server/core-server.

Modify the following:

```
<object name="EmailNotification" singleton="false" type="Credant.Notification.EmailNotification,
Credant.Notification"> [Do not change this value]
```

```
<property name="NotificationDataFactory" ref="NotificationDataFactory"/> [Do not change this value]
<property name="Host" value="test.company.com"/>
<property name="Port" value="25"/>
<property name="Username" value="username"/>
```

Notification.config

If your email server requires authentication, modify the Notification.config file located at /opt/dell/server/core-server.

Modify the following:

<notification>

```
<add key="SmtpPassword" value="your_email_server_password"/>
```

</notification>

Configure SMTP Settings

To receive Security Management Server Virtual email notifications or to use Data Guardian, follow the steps in this section to configure SMTP settings. Dell Server email notifications inform recipients of Dell Server status error states, password updates, availability of Dell Server updates, and client license issues.

It is a best practice to restart the services any time a settings change is made.

To configure SMTP settings, follow these steps:

- 1. From the Advanced Configuration menu, select **Email Notifications**.
- 2. In the Set up Email Notifications screen, to enable email alerts, press the Spacebar to enter an **X** in the Enable Email Alerts field.
- 3. Enter the SMTP Server fully qualified domain name.
- 4. Enter the SMTP Port.
- 5. In the From User field, enter the email account ID that will send email notifications.
- 6. In the Enter User field, enter an email account ID for access to change configured email notifications.
- 7. In the Password field, enter a password for access to change configured email notifications.
- 8. In the Mail IDs fields for Dell Server Status, Password Updates, and Updates Availability, enter lists of recipients for each notification type.
- 9. Follow these conventions when listing recipients:

Email address format is recipient@dell.com.

Recipients are separated with commas or semicolons.

- 10. In the Service alert reminder field, to enable reminders, press the Spacebar to enter an X in the field then set the reminder interval in minutes.
- 11. A Service alert reminder is triggered when the reminder interval has passed after a notification is sent about a system health issue and the host or service remains in the same state.
- 12. In the Summary Report field, to enable reports of notifications, select the desired interval (Daily, Weekly, or Monthly) and then press the Spacebar to enter an **X** in the field.

13. Select OK.

External User Management

Allow or Block Access

To allow or block Data Guardian access for users who are not in the organization's domain:

- 1. In the left pane of the Remote Management Console, click Management > External User Management.
- 2. Select the Registration Access tab.
- 3. Click Add.
- 4. Select Registration Access Type:

Blacklist - Blocks registration and file access for a user or a domain.

Full Access List - Grants registration and file access for a user or domain. If the user or domain is also on the blacklist, no access is granted.

- 5. Enter either a domain to set access for the entire domain, or email address to set access only for a single user.
- 6. Click Add.

External users can also be added to the blacklist from the Audit Events page, if the user is associated with an audit event:

- 1. In the left pane of the Remote Management Console, click Reporting > Audit Events.
- 2. In the User column, click the icon to the right of the user name to add to the blacklist.

Key Request

Dell Data Guardian external users can request a key from an internal user in order to access a protected Office document. Key requests display on the Key Request Management page until the internal user approves or denies the request. After 48 hours, key requests are removed from the list. At that time, external users can again request access.

If the internal user is not available or has left the enterprise, an administrator can use this page to approve or deny requests.

Columns include:

- User external user making the request
- File Name
- Request Date
- Request Expiration
- File Owner internal user
- Approve/Deny

To approve or deny a request:

- 1. In the left pane of the Remote Management Console, click Management > Key Request Management.
- 2. Select the **Key Request** tab.

3. Search for specific requests or select requests in the list that displays.

To select multiple requests to approve or deny, press Ctrl and then select the requests.

To select multiple sequential requests, select the first request and then press **Shift** and select the last request in the sequential list.

4. Click Approve or Deny.

Note: To approve or deny a single request, click the approve or deny icon at the right end of the request.

Key Revocation

The administrator can revoke access to files, at both the user level and the file level.

To revoke access:

- In the left pane of the Remote Management Console, click Management > External User Management.
- 2. Select the **Key Revocation** tab.
- 3. Select the user or file from which to revoke files.
- 4. Click Revoke Keys.

Change the Superadmin Password

- 1. In the masthead at the top of the screen, click the gear icon and select **Change superadmin** password.
- 2. Enter the Current Password.
- 3. Enter the New Password.

The new password must be at least 6 characters, contain at least one capital letter and one of these characters: $-@\#\$\%^*()$ [?!{}[].

- 4. Confirm the New Password.
- 5. Click Update.

NOTE: After three failed login attempts, the superadmin account is locked for five minutes. To change these settings, see <u>Set or Change Account Lockout Settings</u>.

Change Account Lockout Settings

After three failed login attempts, the superadmin account is locked for five minutes. To change these settings:

- 1. Open <Security Server installation folder>\conf\application.properties.
- 2. Edit the following property to change the maximum allowed number of failed login attempts. login.cooldown.max.failed.attempts=3
- 3. Edit the following property to change the length of lockout time after the maximum allowed number of failed login attempts is reached.

Security Management Server Virtual - AdminHelp v9.10

login.cooldown.minutes=5

4. Save the file, and restart the Security Server.

Manage Policies

Manage Security Policies

You can apply security policies at the Enterprise, Domain, User Group, User, Endpoint Group, and Endpoint levels. The initial deployment of your Security Management Server or Security Management Server Virtual has default policy settings that allow your enterprise to get started with Dell Security, but you can customize the security and configuration settings. If you've migrated from an earlier version of Security Management Server Virtual, your policy settings have been migrated for you.

Security policies are grouped by technology. Click a Technology Group to view its policies and policy descriptions.

		_	
Winc	O(M)	- ncrv	ntion
VVIIIC	10443		ption

Full Disk Encryption
Self-Encrypting Drive (SED)
Policy-Based Encryption
Bitlocker Encryption
Server Encryption

Threat Prevention

Advanced Threat Prevention
Threat Protection
Web Protection
Client Firewall
Protection Settings

Mac Encryption

Dell Volume Encryption

Mac Global Settings

Authentication

Pre-Boot Authentication
Windows Authentication
Microsoft Passport

Removable Media Encryption

Windows Media Encryption

Mac Media Encryption

Media Encryption Settings

Port Control

Windows Port Control
Windows Device Control

Data Guardian

Cloud Encryption
Protected Office Documents
Mobile Client
Web Portal
Settings

Global Settings

Settings

The following override information displays at the top of the Security Policies page:

Override count - the number of policy settings that are changed from their default settings.

Uncommitted overrides - the number of changes from default settings that are not yet committed.

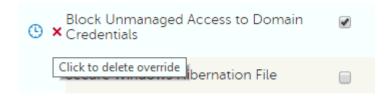
NOTE: The Security Policies page for a population displays overrides to localizable policies in the browser language only.

Icons and their meanings:

- The master switch for policies in the subgroup is On, which means the policy group is enabled. Policies in the group are sent to clients when policies are committed.
- Policies in the subgroup are not enabled.

- At least one default setting in the policy group has been overridden.
- **©** Group of policy settings that has no master switch.
- The policy change is not yet committed. **(P)**
- The policy value can be localized, in order for policies to display on the endpoint computer in a selected language. For more information, see Localize Policies Displayed on the Endpoint Computer and Localizable_policies.
- The default setting of a localizable policy is overridden. Œ.
- A localizable policy change is not yet committed.

To remove a policy override, hover over the red flag next to the policy name. The red flag becomes a red X. Click the red X to revert to the default value.



Group precedence

You can Modify Group Precedence. Group precedence creates a weight associated with the specific group it is assigned to, and that weight is used in policy arbitration for all policy overrides.

Related topics:

View or Modify Enterprise-Level Policies

View or Modify Domain Policies and Information

View or Modify User Group Policies and Information

View or Modify User Policies and Information

View or Modify Endpoint Group Policies and Information

View or Modify Endpoint Policies and Information

Localize Policies Displayed on the Endpoint Computer

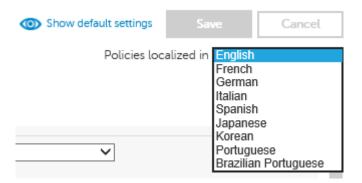
Localizable policies are indicated with this icon:



To localize policies that are displayed on the endpoint computer, follow these steps:

- 1. In the left pane, expand **Populations** and select a population.
- 2. Click the Security Policies tab.
- 3. Select the technology group, such as Windows Encryption, or policy group, such as Policy-Based Encryption, to modify.

4. Select a language for localizable policies from the drop-down list at the top right of the screen.



- 5. Enter text that is in the language you selected for localizable policies. Navigate the populations and technology groups as necessary to localize all desired policies for that language.
- 6. Click Save.
- 7. To update policies in a different language, select the language from the drop-down list, enter localized text for all desired policies, and click Save.
 - Save policy changes before selecting another language in the drop-down list. A different language cannot be selected until policy changes are saved.
- 8. When finished, select the desired language. Any changes made to localizable policies will be made in the language that displays.

Policies l	ocalized	in	English	~
			,	

NOTE: The Security Policies page for a population displays overrides to localizable policies in the browser language only.

Localizable Policies

Localizable policies are indicated with this icon:



Available languages:

English Korean

French Brazilian Portuguese

German Portuguese

Italian Spanish

Japanese

For instructions about localizing policies, see Localize_policies.

The following policies can be displayed in a selected language on the endpoint computer:

Enterprise Level

Technology Group Policy

Windows Encryption > Self-Encrypting Drive (SED) Support Information Text

PBA Title Text

Legal Notice Text

Self Help Questions (Pre-8.0 clients)

Windows Encryption > Policy-Based Encryption Common Encrypted Folders

User Encrypted Folders

OS Update Encryption Rules

Application Data Encryption List

Managed Services

Windows Encryption > BitLocker Encryption Default Folder Location to Save Recovery Password

Authentication > Windows Authentication Recovery Questions for Windows Authentication (Charles and Authentication)

(Checkbox selections)

Removable Media Encryption > Windows Media

Encryption

EMS Device Whitelist

EMS Access Code Required Message

EMS Access Code Failed Message

Data Guardian > Cloud Encryption Help File Name

Help File Contents

Excluded Folders

Excluded Files

Office Protected Document Tamper Prompt
Offline Key Generation Escrow Reminder Text

Office Protected Files Cover Page Notice

Data Guardian > Mobile Client > Cover Page Office Protected Files Cover Page Acceptance Text

Office Protected Document Tamper Prompt

Data Guardian > Web Portal Office Protected Files Cover Page EULA

Users Level

Technology Group Policy

 Application Data Encryption List

Managed Services

Removable Media Encryption > Windows Media

Encryption

EMS Device Whitelist

EMS Access Code Required Message

EMS Access Code Failed Message

Endpoints Level

Technology Group Policy

Windows Encryption > Self-Encrypting Drive (SED) Support Information Text

PBA Title Text

Legal Notice Text

Self Help Questions (Pre-8.0 clients)

Windows Encryption > Policy-Based Encryption Common Encrypted Folders

OS Update Encryption Rules

Windows Encryption > BitLocker Encryption Default Folder Location to Save Recovery Password

Data Guardian > Cloud Encryption Help File Name

Help File Contents

Excluded Folders

Excluded Files

Data Guardian > Protected Office Documents Office Protected Clip Board Unauthorized Text

Office Protected Document Tamper Prompt
Offline Key Generation Escrow Reminder Text

Office Protected Files Cover Page Notice

Windows Encryption

Windows Encryption

A word about types of encryption: SDE is designed to encrypt the operating system and program files. In order to accomplish this purpose, SDE must be able to open its key while the operating system is booting without intervention of a password by the user. Its intent is to prevent alteration or offline attacks on the operating system by an attacker. SDE is not intended for user data. Common and User key encryption are intended for sensitive user data because they require a user password in order to unlock encryption keys.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description			
Full Disk Encryption (FDE) This technology manages drives using software-based Full Disk Encryption. Authentication by users through a Pre-Boot Authentication environment (before the operating system has booted) is required to unlock the drive.					
Full Disk Encryption (FDE)	Off	On Off Toggle to ON to enable all full disk encryption policies. If this policy is toggled to OFF, no full disk encryption takes place, regardless of other policy values. On means that all Full Disk Encryption policies are enabled. Changing the value of this policy triggers a new sweep to encrypt/decrypt files.			
Encryption Algorithm	AES 256	AES 256, AES 128, FIPS AES 256, FIPS AES 128 Encryption algorithm used for Full Disk Encryption.			
Encryption Mode	CBC	CBC, XTS Encryption mode used for Full Disk Encryption.			
Enable FDE Plugin	Selected	The plugin must remain selected. To deactivate the PBA and disable full disk encryption, toggle the Full Disk Encryption policy to OFF.			
Self-Encrypting Drive (SED) This technology manages self-encrypting drives (SEDs). Authentication by users through a Pre-Boot Authentication environment (before the operating system has booted) is required to unlock the drive.					
Self-Encrypting Drive (SED)	On	On Off Toggle On to provision the PBA. If toggled Off after the PBA is provisioned, the PBA is deprovisioned and the PBA database is deleted. Re-toggling to On reprovisions the PBA and re-creates the PBA database.			
See advanced settings					
Policy Default Setting Description Policy-Based Encryption This technology uses Dell's proprietary data centric encryption to allow user data and computer encryption. This allows greater protection over individual data than traditional full disk encryption, by limiting access on a computer to only what a user is authorized to view.					
Policy-Based Encryption	On	On Off Toggle to ON to enable all policy-based encryption policies. If this			

		policy is toggled to OFF, no policy-based encryption takes place, regardless of other policy values.
		On means that all Policy-Based Encryption policies are enabled.
		Changing the value of this policy triggers a new sweep to encrypt/decrypt files.
		Common, User, User Roaming
		Choose a key to indicate who should be able to access files encrypted by Application Data Encryption List, and where.
		More
		Common if you want these files to be accessible to all managed users on the computer where they were created (the same level of access as Common Encrypted Folders), and encrypted with the Common Encryption Algorithm.
Application Data Encryption Key	Common	User if you want these files to be accessible only to the user who created them, only on the computer where they were created (the same level of access as User Encrypted Folders), and encrypted with the User Encryption Algorithm.
		User Roaming if you want these files to be accessible only to the user who created them, on any encrypted Windows computer, and encrypted with the User Encryption Algorithm.
		Changes to this policy do not affect files already encrypted because of this policy.
SDE Encryption Enabled	Not Selected	If this policy is not selected, SDE encryption is disabled, regardless of other policy values. Selected means that all data not encrypted by other Intelligent Encryption policies will be encrypted per the SDE Encryption Rules policy. Changing the value of this policy requires a reboot.
	<u>String</u>	Encryption rules to be used to
SDE Encryption Rules	F#:\	encrypt/not encrypt certain drives, directories, and folders.
	-^%ENV:SYSTEMDRIVE%\System Volume Information	See Encryption Rules for information.
	-^%ENV:SYSTEMROOT%\;dll.exe.sys.ocx.man.cat.manifest.policy	SDE Encryption Rules may be changed as appropriate for your
	-^%ENV:SYSTEMROOT%\System32	environment. However, these defaults have been tested
	-^%ENV:SYSTEMROOT%\SysWow64	extensively. Removing these exclusions may result in Windows
	-^%ENV:SYSTEMROOT%\WinSxS	issues, particularly after applying patch updates.
	-^%ENV:SYSTEMROOT%\Fonts	Contact ProSupport for guidance if you are unsure about changing
	^3@%ENV:SYSTEMROOT%\SYSTEM32\;exe	the values.

	-^3@%ENV:SYSTEMROOT%\SYSTEM32\cmd.exe;exe	
	-^3@%ENV:SYSTEMROOT%\SYSTEM32\autochk.exe;exe	
	-^3@%ENV:SYSTEMROOT%\SYSTEM32\winresume.exe;exe	
	-^F#:\bootmgr	
	-^F#:\boot	
	-^@%ENV:SYSTEMDRIVE%\;voI	
	-^%ENV:SYSTEMDRIVE%\Program Files\PGP Corporation	
	-^3%ENV:SYSTEMDRIVE%\PGPWDE00	
	-^3%ENV:SYSTEMDRIVE%\PGPWDE01	
	-^3%ENV:SYSTEMDRIVE%\PGPWDE02	
	-^3%ENV:SYSTEMDRIVE%\PGPWDE03	
	-^%ENV:SYSTEMDRIVE%\Program Files\Symantec	
	-^%ENV:SYSTEMDRIVE%\Program Files (x86)\Symantec	
	-^%ENV:SYSTEMDRIVE%\Program Files\Common Files\Symantec Shared	
	-^%ENV:SYSTEMDRIVE%\Program Files (x86)\Common Files\Symantec Shared	
	-^%ENV:SYSTEMDRIVE%\ProgramData\Symantec	
	-^3%ENV:SYSTEMDRIVE%\SafeBoot.fs	
	-^3%ENV:SYSTEMDRIVE%\SafeBoot.rsv	
	-^3%ENV:SYSTEMDRIVE%\SafeBoot.csv	
	-^3%ENV:SYSTEMDRIVE%\Program Files\McAfee	
	-^3%ENV:SYSTEMDRIVE%\Program Files\Common Files\McAfee	
	-^3%ENV:SYSTEMDRIVE%\Program Files\McAfee	
	-^3%ENV:SYSTEMDRIVE%\Program Files (x86)\Common Files\McAfee	
	-^3%ENV:SYSTEMDRIVE%\\Program Files (x86)\Mcafee	
	-^%ENV:SYSTEMDRIVE%\Program Files\Trend Micro\	
	-^3%ENV:SYSTEMDRIVE%\ProgramData\DelI\Kace	
	-^3%ENV:SYSTEMDRIVE%\Program Files\DeII\Kace	
	-^3%ENV:SYSTEMDRIVE%\Program Files (x86)\Dell\Kace	
		String - maximum of 100 entries of 500 characters each (up to a maximum of 2048 characters)
Common Encrypted Folders	String %ENV:SYSTEMDRIVE%\;accdb.doc.docm.docx.mdb.pdf.ppam.pps.ppsm.ppsx .ppt.pptm.pptx.pub.puz.sldm.sldx.tif.tiff.vdx.vsd.vss.vst.vsx.vtx.xlam .xlm.xls.xlsb.xlsm.xlsx.xsf.zip.rar %ENV:USERPROFILE%\Desktop %ENV:USERPROFILE%\Download	A list of folders on computer drives to be encrypted or excluded from encryption, which can then be accessed by all managed users who have access to the computer. See Encryption Rules for information. The text in this policy is translatable.
	-^%ENV:SYSTEMDRIVE%\;dat.ini.xml.txt.log.db.lnk	Important: Overriding directory protection can result in an unbootable computer and/or require reformatting drives.
		More

		The available drive letters are:
		#: Refers to all drives
		f#: Refers to all fixed (non-removable) drives
		r#: Refers to all removable drives
		If the same folder is specified in both this policy and the User Encrypted Folders policy, this policy prevails.
Policy-Based Encryption-User Expe	erience	
		Selected Not Selected
Enable Software Auto Updates	Selected	Selected enables the client update agent to automatically check for updates.
		If this policy is Selected, the On Premise Update Staging Location policy must include the staging location.
On Premise Update Staging Location	String	The network location (UNC) where the Security Management Server stages update packages. This policy must have a value if the Enable Software Auto Updates policy is Selected.
See <u>advanced settings</u>		
Policy	Default Setting	Description
Bitlocker Encryption This technology manages N	Alana of Did agree maliaine for full disk and now	
This teerinology manages i	Microsoft BitLocker policies for full disk and rem	
This teermology manages i	wicrosoft bitLocker policies for full disk and rem	Managed
BitLocker Encryption	Not Managed	
		Managed Not Managed Toggle to Managed to enable BitLocker Manager policy settings. Toggling to Not Managed disables all BitLocker Manager policies, regardless of other policy values. Selected
		Managed Not Managed Toggle to Managed to enable BitLocker Manager policy settings. Toggling to Not Managed disables all BitLocker Manager policies, regardless of other policy values.
BitLocker Encryption	Not Managed	Managed Not Managed Toggle to Managed to enable BitLocker Manager policy settings. Toggling to Not Managed disables all BitLocker Manager policies, regardless of other policy values. Selected Not Selected Selected enables TPM management with BitLocker management. Not Selected disables all TPM management policies, including policies in the Operating System Volume
BitLocker Encryption	Not Managed	Managed Not Managed Toggle to Managed to enable BitLocker Manager policy settings. Toggling to Not Managed disables all BitLocker Manager policies, regardless of other policy values. Selected Not Selected Selected enables TPM management with BitLocker management. Not Selected disables all TPM management policies, including policies in the Operating System Volume Settings category.
BitLocker Encryption TPM Manager Enabled	Not Managed Not Selected	Managed Not Managed Toggle to Managed to enable BitLocker Manager policy settings. Toggling to Not Managed disables all BitLocker Manager policies, regardless of other policy values. Selected Not Selected Selected enables TPM management with BitLocker management. Not Selected disables all TPM management policies, including policies in the Operating System Volume Settings category. Selected Not Selected Selected Selected disables sleep mode on

		Turn Off Encryption
		Do Not Manage ignores the System Drive (typically the drive that the operating system is installed on). Turn On Encryption allows BitLocker to encrypt the System Drive only. Turn Off Encryption disables BitLocker from encrypting the system drive or decrypts any BitLocker-encrypted system drives.
		Do Not Manage Turn On Encryption Turn Off Encryption
Encrypt Fixed Drives	Do Not Manage	This policy does not encrypt the system drive. To also encrypt the system drive, make sure that Encrypt System Drive Only is also Turn On Encryption.
		Do Not Manage ignores Fixed Drives. Turn On Encryption allows BitLocker to encrypt Fixed Drives. Turn Off Encryption causes Manager to decrypt any BitLocker encrypted fixed drives.
		Do Not Manage Turn On Encryption Turn Off Encryption
Encrypt Removable Drives	Do Not Manage	Do Not Manage ignores Removable Drives. Turn On Encryption allows BitLocker to encrypt Removable Drives. Turn Off Encryption causes Manager to decrypt any BitLocker encrypted removable drives.
		Selected Not Selected
		This policy allows for the configuration of BitLocker to require additional authentication each time the computer starts up [with or without a Trusted Platform module (TPM)].
Deguire Addition-1		More
Require Additional Authentication at System Startup	Not Selected	This policy is the parent policy to:
		Allow BitLocker Encryption Without a Compatible TPM
		Configure TPM Startup
		Configure TPM Startup PIN
		Configure TPM Startup Key
		Configure TPM Startup Key and PIN

		Selected Not Selected
Allow BitLocker Encryption Without a Compatible TPM	Selected	Selected allows a computer without a compatible TPM to use BitLocker encryption. In this mode, a USB drive is required for startup. When the key is inserted, access to the drive is authenticated and the drive is accessible. If the USB key is lost or unavailable, the computer will require BitLocker recovery for access. To use this policy, Require Additional Authentication at
		System Startup must be set to Selected. Do Not Allow
		Require Allow
		On computers with a compatible TPM, three types of authentication are supported. Only one of the following can be required or allowed:
Configure TPM Startup	Allow	Configure TPM Startup PIN
		Configure TPM Startup Key
		Configure TPM Startup Key and PIN
		To use this policy, Require Additional Authentication at System Startup must be set to Selected.
		Do Not Allow Require Allow
Configure TPM Startup PIN	Allow	To use this policy, Require Additional Authentication at System Startup must be set to Selected.
		This type of authentication involves the entry of a 4-digit to 20-digit personal identification number (PIN).
		Do Not Allow Require Allow
Configure TPM Startup Key	Do Not Allow	To use this policy, Require Additional Authentication at System Startup must be set to Selected.
		This type of authentication involves insertion of a USB drive containing the startup key.
		Do Not Allow Require Allow
Configure TPM Startup Key and PIN	Do Not Allow	To use this policy, Require Additional Authentication at System Startup must be set to Selected.
		This type of authentication involves a 4-digit to 20-digit personal identification number

		(PIN) and a USB drive containing the startup key.
Encryption Method and Cipher Strength (OS Volumes)	XTS-AES-128	AES-128 AES-256 XTS-AES-128 (for use with Windows 10 Anniversary Edition and later) XTS-AES-256 (for use with Windows 10 Anniversary Edition and later) Algorithm and cipher strength used by BitLocker Drive Encryption for OS Volumes.
		AES-128 AES-256 XTS-AES-128 (for use with Windows 10 Anniversary Edition and later) XTS-AES-256 (for use with Windows 10 Anniversary Edition and later)
Encryption Method and Cipher Strength (Removable Volumes)	AES-128	Algorithm and cipher strength used by BitLocker Drive Encryption for Removable Volumes.
		To encrypt removable drives that will be used with older versions of Windows as well as with Windows 10 Anniversary Edition and later, use AES-128 or AES-256.
Encryption Method and Cipher Strength (Fixed Volumes)	XTS-AES-128	AES-128 AES-256 XTS-AES-128 (for use with Windows 10 Anniversary Edition and later) XTS-AES-256 (for use with Windows 10 Anniversary Edition and later)
		Algorithm and cipher strength used by BitLocker Drive Encryption for Fixed Volumes.
See <u>advanced settings</u>		
Policy	Default Setting	Description
typical user-based authent	Dell's data centric encryption using certificate-base cication instead of the typical user-based authention luch as Windows Servers that do not commonly have	cation. This technology allows
Server Encryption	Off	On Off This policy enables or disables System Data Encryption (SDE) and Common Encryption on the client
		server. Changing the value of this policy triggers a new sweep to

		encrypt/decrypt files.
Allow Software Server Encryption	Selected	Selected Not Selected If this policy is Selected, client servers will be activated at the Enterprise level. This policy may be set to Not Selected to block activations during initial Dell Server setup and maintenance interruptions.
Server Maintenance Schedule	Not Selected	This policy must be selected to use all other Server Maintenance policies. If this policy is Not Selected, no Server Maintenance policies are enforced, regardless of other policy values. Selected allows a maintenance schedule to control application of policy that requires a reboot.
Server Maintenance Schedule Repeats	Weekly	Daily, Weekly, Monthly, Quarterly, Annually The schedule configuration defines when the task should run. Daily: Runs the task every day at the specified Server Maintenance Schedule Start Time. Weekly: Runs the task weekly on the days specified in Server Maintenance Day of the Week. Monthly: Runs the task monthly on the specified Server Maintenance Day of the Month. Quarterly: Runs the task quarterly on the specified Server Maintenance Day of the Month. Annually: Runs the task annually on the specified Server Maintenance Day of the Month.
Port Control System	Disabled	Enable or Disable all Port Control System policies. If this policy is set to Disable, no Port Control System policies are applied, regardless of other Port Control System policies. All PCS policies require a reboot before the policy takes effect.
SDE Encryption Enabled	Selected	If this policy is Not Selected, SDE encryption is disabled, regardless of other policy values. Selected means that all data not encrypted by other Intelligent Encryption policies will be encrypted per the SDE Encryption Rules policy. Changing the value of this policy requires a reboot
SDE Encryption Rules	F#:\ -^%ENV:SYSTEMDRIVE%\System Volume Information -^%ENV:SYSTEMROOT%\;dll.exe.sys.ocx.man.cat.manifest.policy -^%ENV:SYSTEMROOT%\System32 -^%ENV:SYSTEMROOT%\SysWow64	Encryption rules to be used to encrypt/not encrypt certain drives, directories, and folders. See Encryption Rules for information. SDE Encryption Rules may be changed as appropriate for your environment. However, these defaults have been tested

	-^%ENV:SYSTEMROOT%\WinSxS -^%ENV:SYSTEMROOT%\Fonts ^3@%ENV:SYSTEMROOT%\SYSTEM32\;exe	extensively. Removing these exclusions may result in Windows issues, particularly after applying patch updates.
	-^3@%ENV:SYSTEMROOT%\SYSTEM32\cmd.exe;exe -^3@%ENV:SYSTEMROOT%\SYSTEM32\autochk.exe;exe -^3%ENV:SYSTEMDRIVE%\ProgramData\Dell\Kace -^3%ENV:SYSTEMDRIVE%\Program Files\Dell\Kace -^3%ENV:SYSTEMDRIVE%\Program Files (x86)\Dell\Kace	Contact ProSupport for guidance if you are unsure about changing the values.
Encryption Enabled	Selected	This policy must be selected to use all Common Encryption policies. Not Selected means that no Common Encryption takes place, regardless of other policy values.
		Changing the value of this policy triggers a new sweep to encrypt/decrypt files.
See advanced settings		

Variables

Some Windows policies support the following variables. A pathname can consist entirely of one or more of these variables, or can include one or more of these variables at any point.

To get directory locations that these CSIDL values resolve to, go to http://msdn.microsoft.com/en-us/library/bb762494.aspx. All names listed on the MSDN page are CSIDL_<name>.

Includes any of the following Windows CSIDL constants: **DESKTOP INTERNET PROGRAMS CONTROLS PRINTERS PERSONAL FAVORITES STARTUP RECENT SENDTO STARTMENU STARTMENU MYDOCUMENTS MYMUSIC MYVIDEO** DESKTOPDIRECTORY

DRIVES

NETWORK NETHOOD **FONTS TEMPLATES** COMMON_STARTMENU COMMON_PROGRAMS COMMON_STARTUP COMMON_DESKTOPDIRECTORY APPDATA PRINTHOOD LOCAL_APPDATA **ALTSTARTUP** COMMON_ALTSTARTUP COMMON_FAVORITES INTERNET_CACHE **COOKIES HISTORY** COMMON_APPDATA **WINDOWS SYSTEM** PROGRAM_FILES PROGRAMFILES **MYPICTURES PROFILE** SYSTEMX86 PROGRAM_FILESX86 PROGRAMFILESX86 PROGRAM_FILES_COMMON PROGRAM_FILES_COMMONX86 COMMON_TEMPLATES COMMON_DOCUMENTS COMMON_ADMINTOOLS **ADMINTOOLS**

CONNECTIONS

COMMON_MUSIC

COMMON_PICTURES

COMMON_VIDEO

RESOURCES

PROFILES

- Includes a numeric or text value stored in the registry for the Current User. If you specify a path but not an item, the client uses the default value
- Includes a numeric or text value stored in the registry for the local computer. If you specify a path but not an item, the client uses the default value
- Includes the value of a Windows local environment variable
- Includes the % character

Windows Policies that Require Reboot

- SDE Encryption Enabled
- All PCS policies

Windows Policies that Require Logoff

• SDE Encryption Enabled

Advanced Windows Encryption

A word about types of encryption: SDE is designed to encrypt the operating system and program files. In order to accomplish this purpose, SDE must be able to open its key while the operating system is booting without intervention of a password by the user. Its intent is to prevent alteration or offline attacks on the operating system by an attacker. SDE is not intended for user data. Common and User key encryption are intended for sensitive user data because they require a user password in order to unlock encryption keys.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description
This techr	pting Drive (SED) ology manages self-encrypting drives (SEDs). ent (before the operating system has booted)	Authentication by users through a Pre-Boot Authentication is required to unlock the drive.
Enable SED Plugin	Selected	The plugin must remain selected. To deactivate the PBA and disable SED Management, toggle the <i>Self-encrypting Drive</i> policy to OFF.
See <u>basic</u>		

<u>settings</u>		
Policy	Default Setting	Description
This techno greater pro		ryption to allow user data and computer encryption. This allows full disk encryption, by limiting access on a computer to only
Encrypt with SDE when SED is detected	Not Selected	When Selected, this policy applies SDE encryption to self-encrypting drives. Use this policy when SDE encryption is preferred instead of native SED encryption.
		String - maximum of 100 entries of 500 characters each (up to a maximum of 2048 characters) A list of folders on the computer hard drive to be encrypted with the User Data
User Encrypted Folders	String	If the same folder is specified in this policy for multiple users of the same Windows computer, each file in that folder is encrypted for the <u>first owner</u> of the file after the policy takes effect, and can be decrypted only by that owner. The text in this policy is translatable. More
		Specify as for Common Encrypted Folders. This policy applies to all drives classified by Windows as Hard Disk Drives (see My Computer). You cannot use this policy to encrypt drives or external media whose type displays as Removable Disk, use EMS Encrypt External Media instead.
		String - maximum of 100 entries of 500 characters each
		We do not recommend adding explorer.exe or iexplorer.exe to the ADE list, as unexpected or unintended results may occur.
		However, explorer exe is the process used to create a new notepad file on the desktop using the right-click menu. Setting encryption by file extension, instead of the ADE list, provides more comprehensive coverage.
		Changes to this policy do not affect files already encrypted because of this policy.
	<u>Exe List</u> winword.exe	List process names of applications (without paths) whose new files you want encrypted, separated by carriage returns. Do not use wildcards.
		The text in this policy is translatable.
		More
	excel.exe	You can also specify these process names (separated by commas) via the registry value HKLM\Software\Dell\CMGShield\ApplicationDataEncryptionList.
Application Data Encryption	powerpnt.exe msaccess.exe winproj.exe outlook.exe acrobat.exe	The Encryption client encrypts all new files (not already being encrypted by Common Encrypted Folders and User Encrypted Folders) on the current computer hard drives created by these application processes whenever they are owned by a currently-logged-on managed user. This may include files excluded from encryption by Common Encrypted Folders and/or User Encrypted Folders.
List	visio.exe mspub.exe	The following folders and their subfolders are always excluded from encryption by this policy:
	winzip.exe winrar.exe onenote.exe onenotem.exe	C:\Windows\system32 C:\Windows\Software Distribution C:\Windows\Software Distribution C:\Windows\Security C:\System Volume Information\Program Files\Dell\(.dll.exe.sys.mac.ddp.wip.rty.nmd.inv) We strongly recommend not listing applications or installers that write system- critical files. Doing so could result in encryption of important system files, which could make a Windows computer unbootable.
		Common process names:
		Outlook: outlook.exe
		Word: winword.exe FrontPage: frontpg.exe
		PowerPoint: powerpnt.exe

WordPack wordpack executions			Aggerry meageness avo
Microsoft Paint: respelnt.exe Exoci: coxoci.cox The following hard-coded system and installer process names are ignored if specified in this policy (you can also add to this list vis the registry value horizoness, and the paint process of the paint in the process and the paint in the process and the paint process update exe. a Windows update process update.exe, a Windows update process supparts exe, a Windows update process wasuclit.exe, a Win			Access: msaccess.exe
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Cleared for initial encryption, as well as updates to this policy. However, if your organization uses a third-party application that requires the file structure within the \temp directory to be preserved, you should prevent this deletion. To disable temporary file deletion, create DeleteTempFiles (REG_DWORD) and set its value to 0 in the registry at HKLM/SOFTWARE\Credant\CMGShield. When this policy is selected, the path listed in the environment variable CSIDL_INTERNET_CACHE is encrypted with the User Data Encryption Key. To reduce encryption sweep time, the contents of CSIDL_INTERNET_CACHE are cleared for initial encryption, as well as updates to this policy. This policy is applicable when using Microsoft Internet Explorer only. For other web browsers, an Administrator must create an encryption policy that is specific to the storage location of the temporary internet files used by each browser. When this policy is selected, the following are encrypted: When this policy is selected, the following are encryption policy that is specific to the storage location of the temporary internet files used by each browser. When this policy is selected, the following are encrypted: The users profile (C:\Users\jsmith) with the User Data Encryption Key \text{\text{\text{Vusers}\public}} \text{\text{\text{Vusers}\public}} \text{\text{\text{Wisers}\public}} \text{\text{\text{Vusers}\public}} \text{\text{\text{Vusers}\public}} \text{\text{\text{Vusers}\public}} \text{\text{\text{Vusers}\public}} \text{\text{\text{Vusers}\public}} \text{\text{\text{\text{Vusers}\public}}} \text{\text{\text{\text{\text{Vusers}\public}}} \text{\text{\text{\text{Vusers}\public}}} \text{\text{\text{\text{\text{Vusers}\public}}} \text{\te			and TMP are encrypted. TEMP and TMP for the operating system are encrypted with the Common Encryption Key.
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When this policy is selected, the path listed in the environment variable CSIDL_INTERNET_CACHE is encrypted with the User Data Encryption Key. To reduce encryption sweep time, the contents of CSIDL_INTERNET_CACHE are cleared for initial encryption, as well as updates to this policy. This policy is applicable when using Microsoft Internet Explorer only. For other web browsers, an Administrator must create an encryption policy that is specific to the storage location of the temporary internet files used by each browser. Encrypt User Profile Documents When this policy is selected, the following are encrypted: The users profile (C:\Users\jsmith) with the User Data Encryption Key \text{\Users\Public with the Common Encryption Key}}			its value to 0 in the registry at
storage location of the temporary internet files used by each browser. Encrypt User Profile Documents When this policy is selected, the following are encrypted: • The users profile (C:\Users\jsmith) with the User Data Encryption Key • \Users\Public with the Common Encryption Key	Encrypt Temporary Internet Files	Selected	When this policy is selected, the path listed in the environment variable CSIDL_INTERNET_CACHE is encrypted with the User Data Encryption Key. To reduce encryption sweep time, the contents of CSIDL_INTERNET_CACHE are cleared for initial encryption, as well as updates to this policy. This policy is applicable when using Microsoft Internet Explorer only. For other web
Profile Documents Not Selected • The users profile (C:\Users\jsmith) with the User Data Encryption Key • \Users\Public with the Common Encryption Key			
Profile Documents Not Selected • The users profile (C:\Users\jsmith) with the User Data Encryption Key • \Users\Public with the Common Encryption Key	Encrypt User		When this policy is selected, the following are encrypted:
Colored	Profile Documents	Not Selected	The users profile (C:\Users\jsmith) with the User Data Encryption Key
FINANCE THIS DOUGH TO SELECTED THE MINIOUS DEGINE THE EACH AND THE PARTY OF THE PAR	Encrypt	Selected	When this policy is selected, the Windows paging file is encrypted. A change to this

Windows Paging File		policy requires a reboot.
		String - maximum of 100 entries of 500 characters each (up to a maximum of 2048 characters)
		When a Service is managed by this policy, the Service is started only after the user is logged in and the Encryption client is unlocked. This policy also ensures that the Service managed by this policy is stopped before the Encryption client is locked during logoff. This policy can also prevent a user logoff if a Service is unresponsive.
		More
Managed Services		Syntax is one Service name per line. Spaces in the Service name are supported. Wildcards are not supported. Entries are not case-sensitive. For example, GoogleDesktop Manager is the same as googledesktopmanager.
		The Service "log on as" setting has no bearing on whether or not the Encryption client can control it. It does not matter if a user logs on with user credentials verses the local system.
		The startup type (Automatic or Manual) does not affect the ability of the Encryption client to control it. Automatic or Manual startup is acceptable.
		Managed Services will not be started if an unmanaged user logs on.
		No Overwrite, Single-pass Overwrite, Three-pass Overwrite, Seven-pass Overwrite
		Once encryption is complete, this policy determines what happens to the unencrypted residue of the original files:
		• No Overwrite deletes it. This value yields the fastest encryption processing.
Secure Post- Encryption	No Occasionity	Single-pass Overwrite overwrites it with random data.
Cleanup	No Overwrite	 Three-pass Overwrite overwrites it with a standard pattern of 1s and 0s, then with its complement, and then with random data.
		 Seven-pass Overwrite overwrites it with a standard pattern of 1s and 0s, then with its complement, and then with random data five times. This value makes it most difficult to recover the original files from memory, and yields the most secure encryption processing.
Secure		When this policy is selected, the Windows Credentials will be secured by encrypting the entire registry with the exception of registry information required for computer boot. The information required for computer boot includes HKLM/SYSTEM and all sub-keys.
Windows	Not Selected	This policy value will be automatically set to Selected if SDE is enabled.
Credentials		More A reboot is required when a change to this policy is delivered. To control this reboot, configure the following policies: Force Reboot on Update, Length of Each Reboot Delay, and Number of Reboot Delays Allowed.
Block Unmanaged Access to Domain Credentials	Not Selected	This policy prevents unmanaged users and applications from accessing the Windows domain credentials when a user is logged in.
Secure Windows Hibernation File	Not Selected	When this policy is selected, the hibernation file will be encrypted only when the computer enters hibernation. The Encryption client disengages protection when the computer comes out of hibernation, providing protection without impacting users or applications while the computer is in use.
Prevent Unsecured Hibernation	Not Selected	When this policy is selected, the Encryption client does not allow computer hibernation if the client is unable to encrypt the hibernation data.
Scan Workstation on Logon	Not selected	When this policy is selected, all current and previously encrypted folders on the encrypted computer's local hard drives are scanned each time a managed user logs on, ensuring that all Common Encrypted Folders and User Encrypted Folders policy values are properly implemented. Abides by the Workstation Scan Priority policy.
		Highest, High, Normal, Low, Lowest
Workstation Scan Priority	Lowest	Specifies the relative Windows priority of encrypted folder scanning. High and Highest prioritize scanning speed over computer responsiveness, Low and Lowest prioritize computer responsiveness over scanning speed and favor other resource-intensive activities, and Normal balances the two.
		The client checks for a changed Workstation Scan Priority before processing the

		next file.
		The scan priority levels are used in two ways.
		These values correspond with the values used by the Microsoft SDK to set thread execution priority.
		The client uses these values to introduce a delay in the encryption sweep after every single file is processed.
		The values translate to the following millisecond delay ranges, where the encryption thread will sit idle and then return full control to the operating system:
		Highest=0 ms / Lowest=100 ms
		Common, User, User Roaming
		Choose a key to indicate who should be able to access files encrypted by the following policies, and where:
		User Encrypted Folders
		Encrypt Outlook Personal folders
		Encrypt Temporary Files (\Users\\cuprant \text{Stars} \AppData\\Local\Temp only)
		Encrypt Temporary Internet Files Fraguet Hear Profile Decuments (except VIII Hears) Decuments or for Windows VIII.
		 Encrypt User Profile Documents (except \AII Users\Documents or for Windows XP, \AII Users\Shared Documents) Select:
		 Common if you want User Encrypted Folders to be accessible by all managed users on the computer where they were created (the same level of access as Common Encrypted Folders), and encrypted with the Common Encryption Algorithm.
		More
User Data Encryption Key	User	The Common Encryption Algorithm controls the encryption algorithm for all User Encrypted Folders and overrides any encryption algorithm selected, including the default User Encryption Algorithm. For example, if the Common Encryption Algorithm is set to AES 256, all Common and User Encrypted Files/Folders will be encrypted with the AES 256 algorithm.
		All other encryption parameters can be selected to override default settings. For example, if the Encrypt Temporary Files policy is set to Not Selected, you can override this setting for any managed user by setting this value to Selected.
		Designated User Encrypted Folders use the Common Key, resulting in all managed users having the key to access any encrypted files stored in these folders as permitted by security settings on the operating system.
		 User if you want these files to be accessible only to the user who created them, only on the computer where they were created (the same level of access as User Encrypted Folders), and encrypted with the User Encryption Algorithm.
		 User Roaming if you want these files to be accessible only to the user who created them, on any encrypted Windows computer, and encrypted with the User Encryption Algorithm.
		When incorporating an encryption policy to encrypt entire disk partitions, Dell recommends using the default SDE policy, rather than Common or User. This ensures that any operating system files that are encrypted are accessible during times when the managed user is not logged in.
		String - maximum of 1500 characters
		List fully qualified Policy Proxy hostnames, or IP addresses, separated by carriage returns. Ports cannot be specified in this policy.
		More
		Once a valid entry is found, the remainder of the Policy Proxies listed are ignored.
Policy Provy		Entries are processed in the following order:
Policy Proxy Connections		1. GKConnections Override (this registry entry overrides all other entries) 2. GKConnections (this registry entry is set automatically by the client, based on the this policy) 3. GK
		To override this policy and specify ports via the registry key, set HKLM\Software\Microsoft\Windows\T\Current\Version\\Winlogon\CMGShield\GKConnections\Override. The client communicates with Policy Proxies using the GKPORT (the default is

		8000). If necessary, change that port via the registry key HKLM\SOFTWARE\Microsoft\WindowsNT\Current
		Version\Winlogon\CMGShield\GKPort. Inherited values for this policy accumulate.
		In order for the client to connect to a Policy Proxy specified in this policy, it must
		be in the same group as the Policy Proxy specified during client installation. Because the client supports up to 255 users per computer, this policy is available
		only at the Enterprise policy level.
Policy Proxy		1-1440 minutes
Polling Interval	360	The interval that the Encryption client attempts to poll Policy Proxy for policy updates, and send inventory information to Policy Proxy.
		The Encryption client also attempts to poll Policy Proxy each time a user logs on.
		This policy is available at the Enterprise, Domain, User Group, and User levels. This policy is used only by the Encryption client. Other applications do not have an activation policy setting.
Allow Activations	Selected	When this policy is selected, Encryption client activations are allowed.
		When this policy is not selected, activations are blocked. Blocking activations is useful for staggering activations, preventing activations during the initial Dell Server setup, or preventing activations during a maintenance interruption.
		Activate, Suspend
Current Shield	A 11 - 1	Activate is the normal state for an encrypted user. A user must be in this state in order to activate a computer.
State	Activate	Select Suspend to require recovery before the user can access the computer.
		When a user is suspended, encrypted data cannot be accessed. The user can be recovered by changing this policy to Activate, and committing the policy.
See <u>basic</u> <u>settings</u>		
Policy-Based En	cryption - User Experience	
		Selected Not Selected
Enable Software Auto Updates	Not Selected	Selected enables the client update agent to automatically check for updates to Encryption client software. If this policy is not selected, Encryption client auto updates do not take place, regardless of other policy values. If this policy is selected, the On Premise Update Staging Location policy must have a network location in its value.
On Premise		String
Update Staging Location	String	This policy defines the network location (UNC) where the Dell Server stages Encryption client update packages. If a network location is not specified in this policy, the Enable Software Auto Updates policy should not be published.
Update Check	10080	1-43200 minutes (1 minute to 30 days)
Period	10000	The period in minutes between checks for software auto updates.
Number of		0-5000
Policy Update Delays Allowed	3	If Force Logoff/Reboot on Policy Updates is Selected, a non-zero value allows the user to delay the required logoff or reboot the specified number of times. Set to zero to disable delays.
Force Logoff / Reboot on Policy Updates	Selected	Selected requires either a logoff or a reboot in order for key policy updates to take effect. Otherwise, these policy updates take effect whenever the next logoff or reboot occurs.
Policy Viewer Enabled	Not Selected	When Selected, the user can view their encryption policies from the Encryption client icon in the system tray.
Display Local Encryption	Not Selected	When Selected, the user sees a menu option in the system tray icon that allows them to pause/resume encryption/decryption (depending on what the client is currently doing).
Processing Control		Important: Allowing a user to pause encryption could allow the user to prevent the Encryption client from fully encrypting or decrypting data per policy.

Suppress File Contention Notification	Selected	This policy controls whether users see notification pop-ups if an application attempts to access a file while the client is processing it. More If the client is processing a large file that an application needs, and this policy is Selected, it may appear that the application is unresponsive or slow to open (with no message indicating what the issue is). Care should be taken when using this
Number of		policy. 0-5000
Encryption Processing Delays Allowed	0	A non-zero value allows the user to delay any encryption processing required by the encryption policies you set, the specified number of times. Set to zero to disable delays.
		5-40320 minutes If Number of Encryption Processing Delays Allowed has a non-zero value, use this policy to specify how often the user is prompted to continue with encryption processing or delay again.
Length of Each Encryption Processing Delay	5	More This prompt displays for five minutes each time. If the user does not respond to the prompt, encryption processing begins. The final delay prompt includes a countdown and progress bar, and it displays until the user responds, or the final delay expires and encryption processing begins.
Delay		Calculate the maximum possible delay as follows (a maximum delay would involve the user responding to each delay prompt immediately prior to the 5-minute mark):
		(Number of Encryption Processing Delays Allowed x Length of Each Encryption Processing Delay) + (5 minutes x [Number of Encryption Processing Delays Allowed - 1])
		5-40320 minutes
		If Number of Policy Update Delays Allowed has a non-zero value, use this policy to specify how often the user is prompted to logoff/reboot or delay again.
		More
	15	This prompt displays for five minutes each time. If the user does not respond to the prompt, the next delay begins. The final delay prompt includes a countdown and progress bar, and it displays until the user responds, or the final delay expires and the required logoff/reboot occurs.
Length of Each Policy		You can change the behavior of the user prompt to begin or delay encryption, to prevent encryption processing following no user response to the prompt.
Update Delay		To do this, set the registry key SnoozeBeforeSweep (DWORD), stored in HKLM\Software\Microsoft\Windows NT\CurrentVersion\Winlogon\CMGShield, to a non-zero value. Any non-zero value will change the default behavior to snooze.
		With no user interaction, encryption processing will be delayed up to the number of configurable allowed delays. When the final delay expires, encryption processing begins.
		Calculate the maximum possible delay as follows (a maximum delay would involve the user never responding to a delay prompt, each of which displays for 5 minutes):
		(Number of Policy Update Delays Allowed x Length of Each Policy Update Delay) + (5 minutes x [Number of Policy Update Delays Allowed - 1])
Force Reboot on Update	Selected	When selected, the computer immediately reboots to allow processing of encryption or updates related to device-based policy, such as System Data Encryption (SDE).
Length of		5-40320 minutes
Each Reboot Delay	15	The number of minutes to delay when the user chooses to delay reboot for device-based policy.
Number of		0-5000
Reboot Delays Allowed	3	The number of times the user will be allowed to delay reboot for device-based policy.
Allow	False	True, False, User-Optional
Encryption		When True, there will be no encryption or decryption of data while the user is

Processing Only When		actively working. The client will only process data when the workstation screen is locked.
Screen is Locked		When False, encryption processing occurs any time, even while the user is working
		User-Optional adds an option to the system tray icon allowing the user to turn this feature on or off.
		Enabling this option will significantly extend the amount of time it takes to complete encryption or decryption.
Hide Overlay Icons	Selected	When Selected, encryption overlay icons do not display on encrypted files in File Explorer for all managed users on the computer.
See <u>basic</u> <u>settings</u>		
Policy	Default Setting	Description
Bitlocker Er		or full disk and removable media encryption.
THIS COMMO	I I I I I I I I I I I I I I I I I I I	
		Selected Not Selected
Disable BitLocker on Self-	Selected	If Selected, BitLocker Manager will not start encryption on a volume that is already protected by a provisioned SED.
Encrypting Drives	33,33,53	For example, if this policy is Selected and both C: and D: are on one physical self-encrypting drive, and the PBA has been provisioned, then C: and D: will not encrypt for BitLocker even if System and Fixed drive encryption are turned on in the BitLocker Manager policies.
See <u>basic</u> <u>settings</u>		
Bitlocker Encry	yption - Fixed Data Volume Settings	
Configure the		Allow Disallow Require
Use of Smart Cards on Fixed Data Drives	Allow	This policy specifies whether smart cards can be used to authenticate access to BitLocker fixed data drives. These settings are enforced when turning on BitLocker, not when unlocking a drive. BitLocker will allow unlocking a drive with any of the protectors available on the drive.
Deny Write Access to		Enabled Disabled Finabled for Organizations
Fixed Data Drives Not	Disabled	Enabled for Organizations If the drive is protected by BitLocker, it will be mounted with read and write access.
Protected by BitLocker		If you disable or do not configure this policy setting, all fixed data drives on the computer will be mounted with read and write access.
Allow Access to BitLocker		Selected Not Selected
Protected Fixed Data Drives from	Selected	When Selected, fixed data drives with the FAT file system can be unlocked and viewed on computers running Windows Server 2008. This policy does not apply to drives that are formatted with the NTFS file system.
Earlier Versions of Windows		Set this policy to Selected and the Do Not Install BitLocker to Go Reader on FAT formatted Fixed Drives policy to Not Selected to allow BitLocker to Go Reader to be installed on the fixed drive.
Do Not Install BitLocker to		Selected Not Selected
Go Reader on FAT Formatted Fixed Drives	Not Selected	If this policy is Not Selected, BitLocker to Go Reader will be installed on the fixed drive to enable users to unlock the drive on computers running Windows Server 2008.
I IVER DLIVE?		Set this policy to Not Selected and the Allow Access to BitLocker Protected Fixed

		Data Drives from Earlier Versions of Windows policy to Not Selected to allow BitLocker to Go Reader to be installed on the fixed drive.
		Allow Require Disallow
Configure Use of Passwords for Fixed Data Drives	Allow	When set to Require, a connection to a domain controller is necessary to validate the complexity of the password. When set to Allow, a connection to a domain controller will be attempted to validate complexity, but if no domain controller is found, the password will still be accepted. When set to Do Not Allow, no password complexity validation will be done.
		To use this policy, Configure Use of Passwords for Fixed Data Drives must be set to Allow or Require.
		Do Not Allow Require Allow
Configure Password Complexity for Fixed Data Drives	Allow	When set to Require, a connection to a domain controller is necessary to validate the complexity of the password. When set to Allow, a connection to a domain controller will be attempted to validate complexity, but if no domain controller is found, the password will still be accepted. When set to Do Not Allow, no password complexity validation will be done.
		To use this policy, Configure Use of Passwords for Fixed Data Drives must be set to Allow or Require.
Minimum		8 min 20 max
Password Length for Fixed Data	8	Passwords must be at least 8 characters. To configure a greater minimum length for the password enter the desired number of characters.
Drives		To use this policy, Configure Use of Passwords for Fixed Data Drives must be set to Allow or Require.
Encryption		Full Encryption
Type for Fixed Data Drives	Full Encryption	Used Space Only Encryption
Data Drives		Select the type of encryption to use for Fixed Data Drives.
		Selected Not Selected
		BitLocker drives can always be recovered with BitLocker Manager, even if this value is Not Selected. This policy allows for the control of how BitLocker protected fixed data drives are recovered in the absence of the required credentials.
		More
Choose How BitLocker-		This policy is the parent policy to:
protected	Not Selected	Allow Data Recovery Agent for Protected Fixed Data Drives
Fixed Drives Can be		Config User Storage of BitLocker 48-digit Recovery Password
Recovered		Config User Storage of BitLocker 256-bit Recovery Key
		Omit Recovery Options from the BitLocker Setup Wizard
		Save BitLocker Recovery Info to AD DS for Fixed Data Drives
		BitLocker Recovery Info to Store in AD DS
		Do Not Enable BitLocker Until Recovery Info is Stored in AD DS for Fixed Data Drives
Allow Data		Selected Not Selected
Recovery Agent for Protected Fixed Data	Selected	When Selected, a data recovery agent is allowed for use with BitLocker protected fixed data drives. Before the agent can be used, it must be added from the Public Key Policies in either the Group Policy Management Console or the Local Group Policy Editor.
Drives		When setting this policy to Selected, the Choose How BitLocker-protected Fixed Drives Can be Recovered policy must also be set to Selected.
Configure User Storage of	Allow	Allow Require

Distraction 10		Do Not Allow
BitLocker 48- digit Recovery Password		Do Not Allow This policy determines if a user is allowed, required, or not allowed to generate a 48-digit password.
		When setting this policy to Allow or Require, the Choose How BitLocker-protected Fixed Drives Can be Recovered policy must also be set to Selected.
Configure User Storage of		Allow Require Do Not Allow
BitLocker 256- bit Recovery	Allow	This policy determines if a user is allowed, required, or not allowed to generate a 256-bit recovery key.
Key		When setting this policy to Allow or Require, the Choose How BitLocker-protected Fixed Drives Can be Recovered policy must also be set to Selected.
0. 11.0		Selected Not Selected
Omit Recovery Options from the BitLocker Setup Wizard	Not Selected	When Selected, users are prevented from specifying recovery options when BitLocker is enabled. Recovery options for the drive are determined by policy settings.
		When setting this policy to Not Selected, the Choose How BitLocker-protected Fixed Drives Can be Recovered policy must also be set to Selected.
		Selected Not Selected
Save BitLocker		Selected allows BitLocker recovery information to be stored in AD DS for fixed data drives. BitLocker recovery information is always saved in the Remote Management Console. Enabling this policy additionally saves the information to AD.
Recovery Information to	Salacted	More
AD DS for Fixed Data Drives	Selected	The appropriate schema extensions and access control settings on the domain must be first configured before AD DS backup can succeed.
Drives		When setting this policy to Selected, the Choose How BitLocker-protected Fixed Drives Can be Recovered policy must also be set to Selected.
		Set this policy to Selected to use the policy BitLocker Recovery Information to Store in AD DS.
		Recovery Passwords and Key Packages Recovery Passwords Only
BitLocker Recovery Information to	Recovery Passwords and Key Packages	This policy provides the option of storing recovery passwords and key packages, or storing the recovery password only in AD DS. The appropriate schema extensions and access control settings on the domain must be first configured before applying this policy.
Store in AD DS		The Choose How BitLocker-protected Fixed Drives Can be Recovered policy must be set to Selected to use this policy.
		To use this policy, Save BitLocker Recovery Information to AD DS for Fixed Data Drives must be set to Selected.
		Selected Not Selected
Do Not Enable BitLocker Until Recovery Information is	Not Selected	Although BitLocker recovery information is automatically stored in the Remote Management Console, this policy additionally requires BitLocker drive encryption recovery information to be stored in AD DS. The appropriate schema extensions and access control settings on the domain must be configured before using this policy.
Stored in AD	NOT Selected	More
DS for Fixed Data Drives		This policy is used to prevent users from enabling BitLocker unless the computer is connected to the domain and the backup of the BitLocker recovery information to AD DS has succeeded.
		The Choose How BitLocker-protected Fixed Drives Can be Recovered policy must be set to Selected to use this policy.
Configure Use of Hardware-		Selected Not Selected
Based Encryption for	Selected	PARENT to the next 4 policies.
Fixed Data Drives		Selected enables the configuration of hardware-based encryption on fixed data drives.

Use Hardware- Based Encryption for Fixed Data Drives	Selected	Selected Not Selected Selected Selected enables hardware-based encryption for fixed data drives. To use this policy, Configure Use of Hardware-Based Encryption for Fixed Data Drives must be set to Selected.
Use BitLocker Software- Based Encryption on Fixed Data Drives When Hardware Encryption is Not Available	Selected	Selected Not Selected Selected enables BitLocker software-based encryption on fixed data drives if hardware-based encryption is not available. To use this policy, Configure Use of Hardware-Based Encryption for Fixed Data Drives must be set to Selected.
Restrict Crypto Algorithms and Cipher Suites Allowed for Hardware- Based Encryption on Fixed Data Drives	Not Selected	Selected Not Selected Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption on fixed data drives. To use this policy, Configure Use of Hardware-Based Encryption for Fixed Data Drives must be set to Selected.
Configure Specific Crypto Algorithms and Cipher Suites Settings on Fixed Data Drives	String	String - 2.16.840.1.101.3.4.1.2; 2.16.840.1.101.3.4.1.42 Set specific Crypto Algorithms and Cipher Suites on fixed data drives. To use this policy, Configure Use of Hardware-Based Encryption for Fixed Data Drives must be set to Selected.
See <u>basic</u> <u>settings</u>		
Bitlocker Encry	otion - Global Settings	
Default Folder Location to Save Recovery Password		Qualified path Important: This policy is not used by BitLocker Manager, because it does not prompt the user when saving recovery passwords. Microsoft defines this policy as: This setting provides the default path that is displayed when the BitLocker drive encryption setup wizard prompts the user to enter the location of a folder to save the recovery password. The text in this policy is translatable.
Encryption Method and Cipher Strength	AES 128 with Diffuser	AES 128 with Diffuser AES 256 with Diffuser AES 128 AES 256 This policy specifies the encryption method and cipher strength used for BitLocker drive encryption. Note that changing this policy has no effect if the drive is already encrypted or encryption is in progress.
Enable Organizational Unique Identifiers	Not Selected	Selected Not Selected This policy allows for the association of unique organizational identifiers to a new drive that is enabled with BitLocker. These identifiers are stored as the identification field and allowed identification field. The allowed identification field is used in combination with the Deny Write Access to Removable Drives Not Protected by BitLocker policy to help control the use of removable drives in the organization. This policy must be set to Selected to use the policies Set Organizational Unique Identifiers and Set Allowed Org Unique Identifiers.
Set Organizational Unique		Up to 260 characters The identification field allows you to associate a unique organizational identifier to BitLocker-protected drives. This identifier is automatically added to new

Identifiers		BitLocker-protected drives and can be updated on existing BitLocker-protected drives using the Manage-BDE command-line tool. An identification field is required for management of certificate-based data recovery agents on BitLocker-protected drives and for potential updates to the BitLocker To Go Reader. BitLocker will only manage and update data recovery agents when the identification field on the drive matches the value configured in the identification field. In a similar manner, BitLocker will only update BitLocker To Go Reader when the identification field on the drive matches the value configured for the identification field.
		To use this policy, Enable Organizational Unique Identifiers must be set to Selected.
		Up to 260 characters
Set Allowed Organizational Unique Identifiers		The allowed identification field is used in combination with the Deny Write Access to Removable Drives Not Protected by BitLocker policy to help control the use of removable drives in the organization. It is a comma separated list of identification fields from your organization or other external organizations.
		To use this policy, Enable Organizational Unique Identifiers must be set to Selected.
Prevent		Selected Not Selected
Memory Overwrite on Restart	Not Selected	Selected prevents memory from being overwritten on restart. Preventing memory overwrite may improve restart performance, but will increase the risk of exposing BitLocker secrets. When Not Selected, BitLocker secrets are removed from memory when the computer restarts.
Enable Smart		Selected Not Selected
Enable Smart Card Certificate	Not Selected	This policy allows or denies an object identifier to be specified for enhanced key usage with a certificate.
Identifier		This policy must be set to Selected to use the policy Smart Card Certificate Identifier.
		1.3.6.1.4.1.311.67.1.1
Smart Card Certificate Identifier	1.3.6.1.4.1.311.67.1.1	This policy provides for an object identifier to be specified for enhanced key usage with a certificate. BitLocker can identify which certificates may be used to authenticate a user certificate to a BitLocker drive by matching the object identifier in the certificate with the object identifier that is defined by this policy. Use caution if changing the default value.
		To use this policy, Enable Smart Card Certificate Identifier must be set to Selected.
See <u>basic</u> <u>settings</u>		
Bitlocker Encryption -	Operating System Volume Settings	
		Selected Not Selected
Allow Enhanced PINs	Not Selected	Selected allows enhanced startup PINs to be used with BitLocker.
for Startup	Not selected	Enhanced startup PINs permit the use of characters including uppercase and lowercase letters, symbols, numbers, and spaces. This policy setting is applied when you turn on BitLocker.
Number of		4-20 digits
Characters Required in PIN	4	This policy configures the minimum length for a TPM startup PIN. The startup PIN must have a minimum length of 4 digits and can have a maximum of 20 digits.
Allow Network Unlock at		Selected Not Selected
Startup on Operating System Drives	Not Selected	This policy specifies if a user is allowed to use the Network Unlock at Startup feature on operating system drives.
Allow SecureBoot on	Colontad	Selected Not Selected
Operating System Drives	Selected	This policy specifies if a user is allowed to use SecureBoot on operating system drives.

Disallow Standard Users from Changing the PIN on Operating System Drives	Not Selected	Selected Not Selected This policy specifies if a standard user is allowed to change their PIN on operating system drives.
Enable Use of Preboot Keyboard Input on Slates	Not Selected	Selected Not Selected This policy specifies if a preboot keyboard input is enabled on Slates.
Reset Platform Validation Data After Recovery	Not Selected	Selected Not Selected This policy specifies if a preboot keyboard input is enabled on Slates.
Choose How BitLocker- protected Operating System Drives Can be Recovered	Not Selected	Selected Not Selected BitLocker drives can always be recovered with BitLocker Manager, even if this value is Not Selected. For the GPO, a Selected value allows you to specify how BitLocker drives are recovered. More This policy is the parent policy to: Allow Data Recovery Agent for Protected Operating System Drives Configure User Storage of BitLocker 48-digit Recovery Password Configure User Storage of BitLocker 256-bit Recovery Key Omit Recovery Options from the BitLocker Setup Wizard Save BitLocker Recovery Info to AD DS for Operating System Drives BitLocker Recovery Information to Store in AD DS (Windows Server 2008 Only) Do Not Enable BitLocker Until Recovery Information is Stored in AD DS for Operating System Drives
Allow Data Recovery Agent for Protected Operating System Drives	Selected	Selected Not Selected The "Allow Certificate Based Data Recovery Agent" is used to specify whether a data recovery agent can be used with BitLocker operating system drives. Before a data recovery agent can be used, it must be added from the Public Key policies in either the Group Policy Management Console or the Local Group Policy Editor. To use this policy, Choose How BitLocker-protected Operating System Drives Can be Recovered must be set to Selected.
Configure User Storage of BitLocker 48- digit Recovery Password	Allow	Do Not Allow Require Allow This policy configures if a user is allowed, required, or not allowed to generate a 48-digit password. To use this policy, Choose How BitLocker-protected Operating System Drives Can be Recovered must be set to Selected.
Configure User Storage of BitLocker 256- bit Recovery Key	Allow	Do Not Allow Require Allow This policy configures if a user is allowed, required or not allowed to generate a 256-bit recovery key. To use this policy, Choose How BitLocker-protected Operating System Drives Can be Recovered must be set to Selected.
Omit Recovery Options from the BitLocker Setup Wizard	Not Selected	Selected Not Selected When Selected, users are prevented from specifying recovery options when BitLocker is enabled. Recovery options for the drive are determined by policy settings.

Selected alleves Bittocker recovery information to be stored in AD BS for operating information to the Selected			To use this policy, Choose How BitLocker-protected Operating System Drives Can be Recovered must be set to Selected.
Information to AD B5 for Selected AD B5 for Operating System Drives Selected allows entitlose recovery information to de stored in AD D5 for Operating System Drives BILLOSOR Recovery Passwords and Key Packages BILLOSOR Recovery Passwords and Key Packages BILLOSOR Recovery Passwords and Key Packages Recovery Passwords and Key Packages Recovery Passwords and Key Packages Recovery Passwords only in AD D5. The appropriate schema extensions and access control store in AD D5. Recovery Passwords only in AD D5. The appropriate schema extensions and Key Packages Recovery Passwords only in AD D5. The appropriate schema extensions and access control softing on the domain must be first configured before applying this palicy. This policy is applicable only to computers running Windows Server 2008. To use this policy. Choose How Bill Locker-protected Operating System Drives Can be Recovered may be set to Selected. Solicited Most Selected Although Bill Locker recovery information is automatically stored in the Remote Monagement Console, this policy additionally requires Bitt ocker drive encryption recovery information to be stored in AD D5. The appropriate schema extensions and access control settings on the domain must be configured before using this policy. Solicited Most Selected Although Bill Locker recovery information to be stored in AD D5. The appropriate schema extensions and access control settings on the domain must be configured before using this policy. The policy is used to prevent users from enabling Bill Locker recovery information to AD D5 has succeeded. For Selected Most Selected For Selected Most Selected Selected Selected Selected Selected Selected Selected Most Selected Selected Selected Selected Selected Selected	Save BitLocker		
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Selected solver software-based encryption on operating system drives if hardware-based encryption is not available. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives must be set to Selected. Selected Selected Selected Selected enables BitLocker software-based encryption on operating system drives if hardware-Based Encryption for Operating System Drives must be set to Selected. Selected Selected Not Selected Not Selected Not Selected Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives must be set to Selected.	Software- Based		
Hardware Encryption is Not Available Restrict Crypto Algorithms and Cipher Suites Allowed for Hardware- Based Encryption on Operating System Drives Not Selected Not Selected Not Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives Not Selected Not Selected Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives Out of the total of the selected.	Operating System Drives	Selected	Selected enables BitLocker software-based encryption on operating system drives
Crypto Algorithms and Cipher Suites Allowed for Hardware- Based Encryption on Operating System Drives Selected Not Selected Not Selected Not Selected Not Selected Not Selected Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives Out allowed the selected Not Selected Not Selected Not Selected Not Selected Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives	When Hardware Encryption is Not Available		
Suites Allowed for Hardware-Based Encryption on Operating System Drives Not Selected Not Selected Not Selected Not Selected Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware-encryption on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives must be set to Selected.	Restrict Crypto Algorithms		
Encryption on Operating System Drives Operating System Drives Operating System Drives	Suites Allowed for Hardware-	Not Selected	
Configure 2.16.840.1.101.3.4.1.2;2.16.840.1.101.3.4.1.42	Based Encryption on Operating System Drives		
	Configure	2.16.840.1.101.3.4.1.2;2.16.840.1.101.3.4.1.42	String -

Specific Crypto Algorithms and Cipher Suites Settings on Operating		2.16.840.1.101.3.4.1.2; 2.16.840.1.101.3.4.1.42 Specific Crypto Algorithms and Cipher Suites allowed on operating system drives. To use this policy, Configure Use of Hardware-Based Encryption for Operating System Drives must be set to Selected.
System Drives		System 2.1100 mag. 20 oot to concerca.
Encryption Type for Operating	Full Encryption	Full Encryption Used Space Only Encryption Select the type of encryption to use for operating system drives.
System Drives		Screet the type of charyption to use for operating system arrives.
Configure Use of Passwords for Operating System Drives	Not Configured	Enabled Disabled Not Configured Configure password requirements for Operating System Drives.
0		Allow Require Do Not Allow
Configure Password Complexity for Operating System Drives	Allow	When set to Require, a connection to a domain controller is necessary to validate the complexity of the password. When set to Allow, a connection to a domain controller will be attempted to validate complexity, but if no domain controller is found, the password will still be accepted. When set to Do Not Allow, no password complexity validation will be done.
		To use this policy, Configure Use of Passwords for Operating System Drives must be set to Enabled.
Minimum		8-256
Minimum Password Length for	8	The default value is a password length of 8 characters. 8-256 characters are allowed.
Operating System Drives		To use this policy, Configure Use of Passwords for Operating System Drives must be set to Enabled.
Require ASCII-		Selected Not Selected
Only Passwords for Operating	Not Selected	Require ASCII-only passwords for operating system drives to create stronger passwords.
System Drives		To use this policy, Configure Use of Passwords for Operating System Drives must be set to Enabled.
Use Enhanced Boot	Disabled	Enabled Disabled Not Configured
Configuration Data Profile		Set this policy to Enable to allow the verification and exclusion of BCD settings.
		String
Verify Additional	String	Specify the additional Boot Configuration settings.
BCD Settings	g	To use this policy, Use Enhanced Boot Configuration Data Profile must be set to Enabled.
		String
Exclude Additional	String	Exclude specific Boot Configuration settings.
BCD Settings	J	To use this policy, Use Enhanced Boot Configuration Data Profile must be set to Enabled.
		Selected Not Selected
Configure TPM Platform Validation Profile	Not Selected	Set to Selected to enable boot up TPM drive unlocking for Windows 7 and Windows Server 2008 R2. Selected allows the configuration of how the TPM security hardware secures the BitLocker encryption key. This policy does not apply if the computer does not have a compatible TPM or if BitLocker has already been turned on with TPM protection.
		This policy must be set to Selected to use the policy Configure Specific TPM Platform Settings.
		See http://technet.microsoft.com/en-us/library/jj679890.aspx#BKMK_depopt3 for

more informa	
PCR1,off secures the Bi computer doe PCR2,on on with TPM p	ows you to configure how the computer's TPM security hardware itLocker encryption key. This policy setting does not apply if the is not have a compatible TPM or if BitLocker has already been turned protection. This setting determines what values the TPM measures are serly boot components before unlocking a drive on a computer
running Windo	ows 7 or Windows Server 2008 R2.
PCR4,on PCR5,on More	
PCR6,off components t PCR7,off encrypted ope PCR8,on BitLocker pro- unlock the dri PCR9,on console and re PCR10,on	
Specific TPM Platform Platform PCR12,off PCR13,off PCR14,off PCR14,off PCR14,off PCR15,off PCR16,off PCR16,off PCR17,off PCR17	or do not configure this policy, the TPM uses the default platform offile or the platform validation profile specified by the setup script. A dation profile consists of a set of Platform Configuration Register ranging from 0 to 23. The default platform validation profile secures n key against changes to the Core Root of Trust of Measurement and Platform Extensions (PCR 0), the Option ROM Code (PCR 2), the lecord (MBR) Code (PCR 4), the NTFS Boot Sector (PCR 8), the NTFS CR 9), the Boot Manager (PCR 10), and the BitLocker Access Control descriptions of PCR settings for computers that use an Extensible erface (EFI) are different than the PCR settings described for at use a standard BIOS. The BitLocker Drive Encryption Deployment osoft TechNet contains a complete list of PCR settings for both EFI BIOS.
PCR20,off Warning: Cha and manageal PCR21,off modifications	nging from the default platform validation profile affects the security oility of your computer. BitLocker's sensitivity to platform (malicious or authorized) is increased or decreased depending upon xclusion (respectively) of the PCRs.
PCR23,off To use this po	licy, Configure TPM Platform Validation Profile must be set to True.
Selected Not Selected	
Configure BIOS TPM Platform Validation Not Selected Validation Validation Set to Selected configuration encryption ke compatible Ti	ed to enable boot up BIOS TPM drive unlocking. Selected allows the of how the BIOS TPM security hardware secures the BitLocker y. This policy does not apply if the computer does not have a PM or if BitLocker has already been turned on with TPM protection.
Profile This policy m	ust be set to Selected to use the policy Configure Specific BIOS TPM ings.
See http://te more informa	chnet.microsoft.com/en-us/library/jj679890.aspx#BKMK_tpmbios for tion.
PCR2,on hardware sectors an operating sectors firmware that	tting allows you to configure how the computer's TPM security ures the BitLocker encryption key. This setting determines what M measures when it validates early boot components before unlocking system drive on a computer with BIOS configuration or with UEFI has the Compatibility Support Module (CSM) enabled.
PCR4,on components t Settings PCR5,off encrypted ope PCR6,off unlock the dri Components t PCR7,off console and re To unlock the dri To unlock the dri To unlock the dri To unlock the	this policy before turning on BitLocker, you can configure the boot hat the TPM will validate before unlocking access to the BitLocker-erating system drive. If any of these components change while tection is in effect, the TPM will not release the encryption key to we and the computer will instead display the BitLocker recovery equire that either the recovery password or recovery key be provided drive.
PCR8,on	

	PCR9,on	Selected.
	PCR10,on	
	PCR11,on	
	PCR12,off	
	PCR13,off	
	PCR14,off	
	PCR15,off	
	PCR16,off	
	PCR17,off	
	PCR18,off	
	PCR19,off	
	PCR20,off	
	PCR21,off	
	PCR22,off	
	PCR23,off	
	. 0.12070.1	
		Selected Not Selected
Configure UEFI TPM Platform Validation	Not Selected	Set to Selected to enable boot up UEFI TPM drive unlocking. Selected allows the configuration of how the UEFI TPM security hardware secures the BitLocker encryption key. This policy does not apply if the computer does not have a compatible TPM or if BitLocker has already been turned on with TPM protection.
Profile		This policy must be set to Selected to use the policy Configure Specific UEFI TPM Platform Settings.
		See http://technet.microsoft.com/en-us/library/jj679890.aspx#BKMK_tpmvaluefi
		for more information.
	PCR0,on	
	PCR1,off	
	PCR2,on	
	PCR3,off	
	PCR4,on	
	PCR5,off	
	PCR6,off	
	PCR7,off	This policy setting allows you to configure how the computer's TPM security
	PCR8,off	hardware secures the BitLocker encryption key. This setting determines what
	PCR9,off	values the TPM measures when it validates early boot components before unlocking
	PCR10,off	an operating system drive on a computer with native UEFI firmware configurations.
Configure		If you enable this policy before turning on BitLocker, you can configure the boot components that the TPM will validate before unlocking access to the BitLocker-
Specific UEFI TPM Platform	PCR11, on	encrypted operating system drive. If any of these components change while
Settings	PCR12.off	BitLocker protection is in effect, the TPM will not release the encryption key to unlock the drive and the computer will instead display the BitLocker recovery
	PCR13,off	console and require that either the recovery password or recovery key be provided
	PCR14,off	to unlock the drive.
	PCR15,off	To use this policy, Configure UEFI TPM Platform Validation Profile must be set to
	PCR16,off	Selected.
	PCR17,off	
	PCR18,off	
	PCR19,off	
	PCR20,off	
	PCR21,off	
	PCR22,off	
	PCR23,off	
See basic		
settings		

Bitlocker Encryption - Removable Storage Settings		
Allow User to Apply BitLocker Protection on Removable Drives	Selected	Selected Not Selected When Selected, users are permitted to run the BitLocker setup wizard on a removable data drive.
Allow User to Suspend and Decrypt BitLocker Protection on Removable Data Drives	Selected	Selected Not Selected When Selected, users are authorized to suspend and decrypt BitLocker protection on removable data drives.
Configure Use of Smart Cards on Removable Data Drives	Allow	Allow Disallow Require This policy specifies whether smart cards can be used to authenticate access to BitLocker removable data drives. These settings are enforced when turning on BitLocker, not when unlocking a drive. BitLocker will allow unlocking a drive with any of the protectors available on the drive.
Deny Write Access to Removable Drives Not Protected by BitLocker	Disabled	Enabled Disabled Enabled for Organization If this policy is enabled, all removable drives that are not BitLocker protected will be mounted as read only. If this policy is disabled, all removable drives on the computer will be mounted with read and write access.
Allow Access to BitLocker Protected Removable Data Drives from Earlier Versions of Windows	Selected	Selected Not Selected When Selected, removable data drives with the FAT file system can be unlocked on computers running Windows Server 2008. This policy does not apply to drives that are formatted with the NTFS file system.
Do Not Install BitLocker to Go Reader on FAT formatted Removable Drives	Not Selected	Selected Not Selected If this policy is Not Selected, removable data drives formatted with the FAT file system that are BitLocker protected cannot be unlocked on computers running Windows Server 2008. Bitlockertogo.exe will not be installed.
Configure Use of Passwords for Removable Data Drives	Allow	Allow Require Do No Allow This policy specifies whether a password is required to unlock BitLocker removable data drives. These settings allow the use of a password, require the use of a password, or disallow the use of a password. This policy must be set to Allow or Require to use the Configure Password Complexity for Removable Data Drives and Minimum Password Length for Removable Data Drives polices.
Configure Password Complexity for Removable Data Drives	Allow	Allow Require Do Not Allow When set to Require, a connection to a domain controller is necessary to validate the complexity of the password. When set to Allow, a connection to a domain controller will be attempted to validate complexity, but if no domain controller is found, the password will still be accepted. When set to Do Not Allow, no password complexity validation will be done. To use this policy, Configure Use of Passwords for Removable Data Drives must be set to Allow or Require.
Minimum Password Length for	8	8-20 characters Passwords must be at least 8 characters in length, with a maximum of 20

Removable Data Drives		characters. To use this policy, Configure Use of Passwords for Removable Data Drives must be set to Allow or Require.
Encryption Type for Removable	Full Encryption	Allow User to Choose Full Encryption Used Space Only Encryption
Data Drives		Select the type of encryption to use for Removable Data Drives.
		Selected Not Selected
		BitLocker drives can always be recovered with BitLocker Manager, even if this value is Not Selected. This policy allows for the control of how BitLocker protected removable data drives are recovered in the absence of the required credentials.
Choose How		More
BitLocker- protected		This policy is the parent policy to:
Removable	Not Selected	Allow Data Recovery Agent for Protected Removable Data Drives
Drives Can be Recovered		Configure User Storage of BitLocker 48-digit Recovery Password
Recovered		Configure User Storage of BitLocker 256-bit Recovery Key
		Omit Recovery Options from the BitLocker Setup Wizard for Removable Media
		Save BitLocker Recovery Information to AD DS for Removable Data Drives
		BitLocker Recovery Info to Store in AD DS for Removable Data Drives
		Do Not Enable BitLocker Until Recovery Info is Stored in AD DS for Rem Data Drives
Allow Data		Selected Not Selected
Recovery Agent for Protected Removable	Selected	When Selected, a data recovery agent is allowed for use with BitLocker protected removable data drives. Before the agent can be used, it must be added from the Public Key Policies in either the Group Policy Management Console or the Local Group Policy Editor.
Data Drives		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.
Configure User Storage of	Allow	Allow Require Do Not Allow
BitLocker 48- digit Recovery		This policy configures if a user is allowed, required, or not allowed to generate a 48-digit password.
Password		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.
Configure User		Allow Require Do Not Allow
Storage of BitLocker 256- bit Recovery	Allow	This policy configures if a user is allowed, required, or not allowed to generate a 256-bit recovery key.
Key		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.
Omit Recovery	Not Selected	Selected Not Selected
Options from the BitLocker Setup Wizard for Removable Media		When Selected, users are prevented from specifying recovery options when BitLocker is enabled. Recovery options for the drive are determined by policy settings.
		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.
Save BitLocker		Selected Not Selected
Recovery Information to AD DS for Removable	Selected	Selected allows BitLocker recovery information to be stored in AD DS for removable data drives. The appropriate schema extensions and access control settings on the domain must be first configured before AD DS backup can succeed.
Data Drives		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.

		Set this policy to Selected to use the policy BitLocker Recovery Information to Store in AD DS for Removable Data Drives.
		Recovery Passwords and Key Packages Recovery Passwords Only
BitLocker Recovery Information to Store in AD DS	Recovery Passwords and Key Packages	This policy provides the option of storing recovery passwords and key packages, or storing the recovery password only in AD DS. The appropriate schema extensions and access control settings on the domain must be first configured before applying this policy.
for Removable Data Drives		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.
		To use this policy, Save BitLocker Recovery Information to AD DS for Removable Data Drives must be set to Selected.
		Selected Not Selected
Do Not Enable BitLocker Until Recovery Information is Stored in AD	Not Selected	Although BitLocker recovery information is automatically stored in the Remote Management Console, this policy additionally requires BitLocker drive encryption recovery information to be stored in AD DS. Note that the appropriate schema extensions and access control settings on the domain must be configured before using this policy.
DS for Removable Data Drives		This policy is used to prevent users from enabling BitLocker unless the computer is connected to the domain and the backup of the BitLocker recovery information to AD DS has succeeded.
		To use this policy, Choose How BitLocker-protected Removable Drives Can be Recovered must be to Selected.
Configure Use of Hardware-		Selected Not Selected
Based Encryption for	Selected	PARENT to the next 4 policies.
Removable Data Drives		Selected enables the configuration of hardware-based encryption on removable data drives.
Use Hardware- Based		Selected Not Selected
Encryption for Removable	Selected	Selected enables hardware-based encryption on removable data drives.
Data Drives		To use this policy, Configure Use of Hardware-Based Encryption for Removable Data Drives must be set to Selected.
Use BitLocker Software- Based		Selected
Encryption on Removable		Not Selected Selected enables BitLocker software-based encryption on removable data drives if
Data Drives When	Selected	hardware-based encryption is not available.
Hardware Encryption is Not Available		To use this policy, Configure Use of Hardware-Based Encryption for Removable Data Drives must be set to Selected.
Restrict		
Crypto Algorithms		Selected Not Selected
and Cipher Suites Allowed for Hardware-	Not Selected	Selected allows only specific crypto algorithm and cipher suites for BitLocker hardware encryption.
Based Encryption on Removable Data Drives		To use this policy, Configure Use of Hardware-Based Encryption for Removable Data Drives must be set to Selected.
Configure Specific Crypto Algorithms		String - 2.16.840.1.101.3.4.1.2; 2.16.840.1.101.3.4.1.42
and Cipher	2.16.840.1.101.3.4.1.2;2.16.840.1.101.3.4.1.42	Specific Crypto Algorithms and Cipher Suites allowed.
Suites Settings on Removable Data Drives		To use this policy, Configure Use of Hardware-Based Encryption for Removable Data Drives must be set to Selected.

See <u>basic</u> <u>settings</u>		
Policy	Default Setting	Description
based authe	logy manages Dell's data centric encryption	using certificate-based authentication instead of the typical user- authentication. This technology allows for protection of devices sers logged in.
Server Encryption	Off	On Off This policy enables or disables System Data Encryption (SDE) and Common Encryption on the client server. Changing the value of this policy triggers a new sweep to encrypt/decrypt files.
Allow Software Server Encryption	Selected	Selected Not Selected If this policy is Selected, client servers will be activated at the Enterprise level. This policy may be set to Not Selected to block activations during initial Dell Server setup and maintenance interruptions.
Max Network Failed Attempts	3	1-10 Number of successive failed attempts for a client server to connect to the Dell Server before encryption keys are locked.
Retry Interval to connect to Dell Server	5	1-60 minutes Time interval for the client server to attempt to connect to the Dell Server.
Retry if Authentication Fails Upon Network Failure	Selected	Selected Not Selected If Selected, the client server continues to attempt to contact the Dell Server if the first attempt fails due to a network failure.
Retry Interval Upon Network Failure	10	10-60 minutes The length of time between attempts to contact the Dell Server if the first attempt fails due to a network failure. The Retry if Authentication Fails Upon Network Failure policy must be set to Selected for this policy to be enforced.
Server Maintenance Schedule	Not Selected	This policy must be selected to use all other Server Maintenance policies. If this policy is Not Selected, no Server Maintenance policies are enforced, regardless of other policy values. Selected allows a maintenance schedule to control application of policy that requires a reboot.
Server Maintenance Schedule Repeats	Weekly	Daily, Weekly, Monthly, Quarterly, Annually The schedule configuration defines when the task should run. Daily: Runs the task every day at the specified Server Maintenance Schedule Start Time. Weekly: Runs the task weekly on the days specified in Server Maintenance Day of the Week. Monthly: Runs the task monthly on the specified Server Maintenance Day of the Month. Quarterly: Runs the task quarterly on the specified Server Maintenance Day of the Month. Annually: Runs the task annually on the specified Server Maintenance Day of the Month.
Server Maintenance Schedule Start Time	21:00	Format is HH:mm. Example: 23:59 The time the task should run.

Saturday	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday The day of the week the task should run.
	1-31
1	The day of the month the task should run.
	Example: 17.
Not Colooted	When Colocted an automatic reheat is suppressed indefinitely
Not Selected	When Selected, an automatic reboot is suppressed indefinitely.
Disabled	Enable or Disable all Port Control System policies. If this policy is set to Disable, no Port Control System policies are applied, regardless of other Port Control System policies.
	All PCS policies require a reboot before the policy takes effect.
Enabled	Enable, Disable, or Bypass ports exposed through the Express Card Slot.
	Enable, Disable, or Bypass port access to external USB ports.
Enabled	Note: USB port-level blocking and HID class-level blocking is only honored if we can identify the computer chassis as a laptop/notebook form-factor. We rely on the computer's BIOS for the identification of the chassis.
Enabled	Enable, Disable, or Bypass port access to external SATA ports.
Enabled	Enable, Disable, or Bypass port access to PCMCIA ports.
Enabled	Enable, Disable, or Bypass port access to external Firewire (1394) ports.
Enabled	Enable, Disable, or Bypass port access to SD card ports.
Enabled	Enable, Disable, or Bypass access to Memory Transfer Device (MTD) ports.
Enabled	PARENT to the next 3 policies. Set this policy to Enabled to use the next 3 Subclass Storage polices. Setting this policy to Disabled disables all 3 Subclass Storage policies - no matter what their value.
	CHILD of Class: Storage. Class: Storage must be set to Enabled to use this policy.
Full Access	This policy interacts with the Removable Storage - EMS Access to unShielded Media policy. If you intend to have Full Access to media, also set this policy to Full Access to ensure that the media is not set to read only and the port is not blocked.
	Full Access: External Drive port does not have read/write data restrictions applied
	Read Only: Allows read capability. Write data is disabled
	Blocked: Port is blocked from read/write capability
	This policy is endpoint-based and cannot be overridden by user policy.
	CHILD of Class: Storage. Class: Storage must be set to Enabled to use this policy.
	Full Access: Optical Drive port does not have read/write data restrictions applied
	UDF Only: Blocks all data writes that are not in the UDF format (CD/DVD burning, ISO burning). Read data is enabled.
	Read Only: Allows read capability. Write data is disabled
LIDE OI.	Blocked: Port is blocked from read/write capability
UDF Only	This policy is endpoint-based and cannot be overridden by user policy.
	Universal Disk Format (UDF) is an implementation of the specification known as ISO/IEC 13346 and ECMA-167 and is an open vendor-neutral file system for computer data storage for a broad range of media.
	To encrypt data written to CD/DVD media:
	Set EMS Encrypt External Media = Selected, EMS Exclude CD/DVD Encryption = Not Selected, and Storage Class: Optical Drive Control = UDF Only.
Read Only	CHILD of Class: Storage. Class: Storage must be set to Enabled to use this policy. Full Access: Floppy Drive port does not have read/write data restrictions applied
	Not Selected Disabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Full Access

		Read Only: Allows read capability. Write data is disabled
		Blocked: Port is blocked from read/write capability
		This policy is endpoint-based and cannot be overridden by user policy.
Class: Windows Portable	Enabled	PARENT to the next policy. Set this policy to Enabled to use the Subclass Windows Portable Device (WPD): Storage policy. Setting this policy to Disabled disables the Subclass Windows Portable Device (WPD): Storage policy - no matter what its value.
Device (WPD)		Control access to all Windows Portable Devices.
Subclass		CHILD of Class: Windows Portable Device (WPD) . Class: Windows Portable Device (WPD) must be set to Enabled to use this policy.
Windows Portable	Full Access	Full Access: Port does not have read/write data restrictions applied.
Device (WPD):		Read Only: Allows read capability. Write data is disabled.
Storage		Blocked: Port is blocked from read/write capability.
		Control access to all Human Interface Devices (keyboards, mice).
Class: Human Interface Device (HID)	Enabled	Note: USB port-level blocking and HID class-level blocking is only honored if we can identify the computer chassis as a laptop/notebook form-factor. We rely on the computer's BIOS for the identification of the chassis.
Class: Other	Enabled	Control access to all devices not covered by other Classes.
EMS Encrypt External Media	Not Selected	This policy must be selected to use all other Removable Storage policies. Not Selected means that no encryption of removable storage takes place, regardless of other policy values.
EMS Exclude CD/DVD Encryption	Not Selected	Not Selected encrypts CD/DVD devices.
		Block, Read Only, Full Access
	Read Only	Note that this policy interacts with the Port Control System - Storage Class: External Drive Control policy. If you intend to set this policy to Full Access, ensure that Storage Class: External Drive Control is not set to Read Only or Blocked.
		More
EMS Access to unShielded		When this policy is set to Block Access, you have no access to removable storage unless it is encrypted.
Media		Choosing either Read-Only or Full Access allows you to decide what removable storage to encrypt.
		If you choose not to encrypt removable storage and this policy is set to Full Access, you have full read/write access to removable storage.
		If you choose not to encrypt removable storage and this policy is set to Read-Only, you can read or delete existing files on the unencrypted removable storage, but files cannot be edited on, or added to, the removable storage.
EMS		AES 256, AES 128, 3DES
Encryption	AES256	Encryption algorithm used to encrypt removable storage.
Algorithm		Encryption algorithms in order of speed, fastest first, are AES 128, AES 256, 3DES.
		Disabled, Local, Roaming
EMS Automatic Authentication	Disabled	Local automatic authentication allows the encrypted media to be automatically authenticated when inserted in the originally encrypting computer when the owner of that media is logged in. When automatic authentication is Disabled, users must always manually authenticate to access encrypted media.
		Not Selecting Roaming automatic authentication helps to prevent users from forgetting their password when they take the media home or share it with a colleague. Not selecting Roaming automatic authentication also promotes a sense of awareness from a security perspective for users that the data being written to that media is protected.
		Selected forces a scan of removable storage every time it is inserted.
EMS Scan External Media	Not Selected	When this policy is Not Selected and the EMS Encrypt External Media policy is Selected, only new and changed files are encrypted.
IVIEUIA		See <u>EMS Encryption Rules</u> if changing this policy to Selected. Do not enable this policy without applying EMS Encryption Rules also.

ı		More
		More A scan occurs at every insertion so that any files added to the removable storage without authenticating can be caught. Files can be added to the removable storage if authentication is declined, but encrypted data cannot be accessed. The files added will not be encrypted in this case, so the next time removable media is authenticated (to work with encrypted data), any files that may have been added are scanned and encrypted.
EMS Access		Selected allows the user to access encrypted data on removable storage whether the endpoint is encrypted or not.
Encrypted Data on unShielded Device	Selected	More When this policy is Not Selected, the user is able to work with encrypted data when logged on to any encrypted endpoint, regardless of the Dell Server the user activated against. The user will not be able to work with encrypted data using any unencrypted device.
		String - Maximum of 150 devices with a maximum of 500 characters per PNPDeviceID. Maximum of 2048 total characters allowed. "Space" and "Enter" characters count in the total characters used.
		This policy allows the specification of removable storage devices to exclude from encryption [using the removable storage device's Plug and Play device identifier (PNPDeviceID)], thereby allowing users full access to the specified removable storage devices.
		More This policy is available on an Enterprise, Domain, Group, and User level. Note that local settings override inherited settings. If a user is in more than one group, all EMS Device Whitelist entries, across all Groups, apply.
		Note: This policy is particularly useful when using removable storage devices which provide hardware encryption. However, this policy should be used with caution. This policy does not check whether external media devices on this list provide hardware encryption. Whitelisting removable storage devices which do not have hardware encryption will not have enforced security and will not be protected.
		For example, the Kingston® DataTraveler® Vault Privacy model enforces that encryption is enabled to use the device. However, the Kingston DataTraveler Vault model has an unsecured partition and a secured partition. Because it is the same physical removable storage device with only one PNPDeviceID, the two partitions cannot be distinguished, meaning that whitelisting this particular removable storage device would allow unencrypted data to leave the endpoint.
EMS Device		Additionally, if a removable storage device is encrypted and is subsequently added to the EMS Device Whitelist policy, it remains encrypted and requires a reformat of the removable storage device to remove encryption.
Whitelist		The following is an example of a PNPDeviceID, which contains the manufacturer identifier, product identifier, revision, and hardware serial number:
		USBSTOR\DISK&VEN_KINGSTON &PROD_DTVAULT_PRIVACY& REV_104\07005B831A0004B4&0
		To whitelist a removable storage device, provide a string value which matches portions of the device's PNPDeviceID. Multiple device PNPDeviceIDs are allowed.
		For example, to whitelist all Kingston DataTraveler Vault Privacy models, input the string:
		PROD_DTVAULT_PRIVACY
		To whitelist both models of Kingston DataTraveler, the Vault and Vault Privacy models, input the string:
		PROD_DTVAULT_PRIVACY; PROD_DT_VAULT
		Note that space characters are considered part of the substring to match to a PNPDeviceID. Using the previous PNPDeviceID as an example, a space before and after the semicolon would cause neither of the substrings to be matched, because the space character is not part of the PNPDeviceID.
		Instructions
		To find the PNPDeviceID for removable storage:
		Insert the removable storage device into an encrypted computer.
		2. Open the EMSService.log in C:\Programdata\Dell\Dell Data

		Protection\Encryption\EMS.
		3. Find PNPDeviceID=
		For example:
		14.03.18 18:50:06.834 [I] [Volume "F:\"] PnPDeviceID = USBSTOR\DISK&VEN_SEAGATE&PROD_USB&REV_0409\2HC015
		KJ&O
		VEN=Vendor; Green highlighted text is for the vendor to be
		excluded
		PROD=Product/Model Name; Adding text highlighted blue also
		excludes all of Seagate's USB drives
		REV=Firmware Revision; Adding text highlighted gray also
		excludes the specific model being used
		Serial number (in this example); Adding text highlighted yellow
		excludes just this device
		OR
		To find the PNPDeviceID for removable storage on Windows 7 or later:
		Insert the removable storage device.
		 Open the Control Panel and go to Administrative Tools > Computer Management.
		3. Select the Hardware tab, select the drive, and click Properties.
		A new windows displays. Select the Device Instance Path in the Property drop-down menu.
		The PNPDeviceID is displayed in the Value field.
		To find the PNPDeviceID for removable storage on Windows XP:
		1. Click Start > Run
		Type msinfo32 and click Enter.
		When the System Information window displays, go to Components > USB.
		A list of USB devices and their PNPDeviceIDs displays.
		Available Delimeters:
		Tabs
		Commas
		Semi colons
		Hex character 0x1E (Record separator character)
EMS Alpha		
Characters Required in	Selected	Selected requires one or more letters in the password.
Password		
EMS Mixed		
Case Required	Selected	Selected requires at least one uppercase and one lowercase letter in the password.
in Password		
EMS Number		
of Characters.	8	1-40 characters
Required in Password	,	Minimum number of characters required in the password.
EMS Numeric		
Characters Required in	Selected	Selected requires one or more numeric characters in the password.
Password		
FMC Page:		
EMS Password Attempts	3	1-10
Allowed	,	Number of times the user can attempt to enter the correct password.

EMS Special		
Characters Required in Password	Not Selected	Selected requires one or more special characters in the password.
EMS Access		8, 16, 32
and Device Code Length	16	Number of characters access and device codes have. 32 characters is the most secure, while 8 is the easiest to enter.
EMS Access Code		1-10
Attempts	3	Number of times the user can attempt to enter the access code.
Allowed		·
		Apply Cooldown, Wipe Encryption Keys
		Action to take following unsuccessful EMS Access Code Attempts Allowed:
EMS Access Code Failure Action	Apply Cooldown	Apply Cooldown to allow another round of attempts following the specified cooldown period (EMS Cooldown Time Delay and EMS Cooldown Time Increment policies)
		Wipe Encryption Keys to delete the encryption keys on the removable storage, making the encrypted data inaccessible until the owner takes the media to an encrypted computer for which he has a login.
		String - 5-512 characters - Authentication Failed: Please contact your system administrator.
		Message that displays when a user needs to contact an administrator for an access code after authentication failure.
EMS Access	String	More
Code Required Message	Authentication Failed. Please contact your system	Message policies must have non-blank values.
Wessage	administrator.	"Space" and "Enter" characters used to add lines between rows count as characters used. Messages over the 512 character limit are truncated on the client.
		We recommend that you customize the second sentence of the message to include specific instructions about how to contact a Help Desk or Security Administrator for authentication failures.
		0-5000 seconds
EMS Cooldown Time Delay	30	Number of seconds the user must wait before attempting to enter the access code after failing the specified number of times.
EMS Cooldown		0-5000 seconds
Time Increment	20	Incremental time to add to the cooldown time each time the user fails to enter the correct access code in the specified number of attempts.
		String - 5-512 characters - You are not authorized to use this media. Please contact your system administrator.
	String You are not authorized to use this media. Please contact your system administrator.	Message that displays following unsuccessful Access Code Attempts Allowed.
EMS Access		More
Code Failed Message		Message policies must have non-blank values.
g		"Space" and "Enter" characters used to add lines between rows count as characters used. Messages over the 512 character limit are truncated on the client.
		We recommend that you customize the message to include specific instructions about how to contact the Help Desk or Security Administrator.
		Encryption rules to be used to encrypt/not encrypt certain drives, directories, and folders.
EMS Encryption	String	A total of 2048 characters are allowed. "Space" and "Enter" characters used to add lines between rows count as characters used. Any rules exceeding the 2048 limit are ignored.
		See Encryption Rules for information.
Rules		More
		Storage devices which incorporate multi-interface connections, such as Firewire, USB, eSATA, etc. may require the use of both Encryption External Media and encryption rules to encrypt the endpoint. This is necessary due to differences in how the Windows operating system handles storage devices based on interface
		type.

		To ensure encrypting an iPod via Encryption External Media does not make the device unusable, use the following rules:
		-R#:\Notes -R#:\Notes -R#:\Notes -R#:\Notes -R#:\Notes
		You can also force encryption of specific file types in the directories above. Adding the following rules will ensure that ppt, pptx, doc, docx, xls, and xlsx files are encrypted in the directories excluded from encryption via the previous rules:
		^R#:\Calendars ;ppt.doc .xls.pptx .docx.xlsx ^R#:\Contacts ;ppt .doc.xls .pptx.docx .xlsx ^R#: \iPod_Control ;ppt.doc .xls.pptx .docx.xlsx ^R#:\Notes ;ppt .doc.xlsx R#:\Notes ;ppt.doc .xls.pptx .docx.xlsx AR#:\Notes ;ppt.doc
		pptx, doc, docx, xls, and xlsx files in any directory on the iPod, including Calendars, Contacts, iPod_Control, Notes, and Photos: ^R#:\;ppt.doc.xls
		.pptx.docx.xlsx .pptx.docx.xlsx These rules disable or enable encryption for these folders and file types for all removable devices - not just an iPod. Use care when defining rules to exclude an iPod from encryption.
		These rules have been tested against the following iPods:
		iPod Video 30gb fifth generation
		iPod Nano 2gb second generation
		iPod Mini 4gb second generation
		We do not recommend the use of the iPod Shuffle, as unexpected results may occur.
		As iPods change, this information could also change, so caution is advised when allowing the use of iPods on Encryption External Media-enabled computers.
		Because folder names on iPods are dependent on the model of the iPod, we recommend creating an exclusion encryption policy which covers all folder names, across all iPod models.
		Block access to any external media that is less than 55 MB and thus has insufficient storage capacity to host external media encryption (such as a 1.44MB floppy disk).
EMS Block		More
Access to UnShieldable Media	Selected	All access is blocked if EMS Encrypt External Media and this policy are both Selected. If EMS Encrypt External Media is Selected, but this policy is Not Selected, data can be read from the unencryptable external media, but write access to the media is blocked.
		If EMS Encrypt External Media is Off, then this policy has no effect and access to unencryptable external media is not impacted.
SDE Encryption Enabled	Selected	If this policy is Not Selected, SDE encryption is disabled, regardless of other policy values. Selected means that all data not encrypted by other Intelligent Encryption policies will be encrypted per the SDE Encryption Rules policy. Changing the value of this policy requires a reboot.

		AES 256, AES 128, 3DES
SDE Encryption	AES256	Encryption algorithm used to for System Data Encryption.
Algorithm	1.000	Encryption algorithms in order of speed, fastest first, are AES 128, AES 256, 3DES.
	String	
	F#:\	
	-^%ENV:SYSTEMDRIVE%\System Volume Information	
	-^%ENV:SYSTEMROOT%\;dII.exe.sys.ocx.man.cat	
	.manifest.policy	
	-^%ENV:SYSTEMROOT%\System32	Encryption rules to be used to encrypt/not encrypt certain drives, directories, and
SDE	-^%ENV:SYSTEMROOT%\SysWow64	folders. See <u>Encryption Rules</u> for information.
Encryption	-^%ENV:SYSTEMROOT%\WinSxS	SDE Encryption Rules may be changed as appropriate for your environment.
Rules	-^%ENV:SYSTEMROOT%\Fonts	However, these defaults have been tested extensively. Removing these exclusions may result in Windows issues, particularly after applying patch updates.
	^3@%ENV:SYSTEMROOT%\SYSTEM32\;exe	Contact ProSupport for guidance if you are unsure about changing the values.
	-^3@%ENV:SYSTEMROOT%\SYSTEM32\cmd.exe;exe	gardenes in you are allowed allowed in any ing the values.
	-^3@%ENV:SYSTEMROOT%\SYSTEM32\autochk.exe;exe	
	-^3%ENV:SYSTEMDRIVE%\ProgramData\Dell\Kace	
	-^3%ENV:SYSTEMDRIVE%\Program Files\DelI\Kace	
	-^3%ENV:SYSTEMDRIVE%\Program Files (x86)\Dell\Kace	
Encryption		This policy must be selected to use all Common Encryption policies. Not Selected means that no Common Encryption takes place, regardless of other policy values.
Enabled	Selected	Changing the value of this policy triggers a new sweep to encrypt/decrypt files.
		String - maximum of 100 entries of 500 characters each (up to a maximum of 2048 characters)
	%ENV:SYSTEMDRIVE%\;accdb.doc.docm.docx.mdb.pdf.ppam .pps.ppsm.ppsx.ppt.pptm.pptx.pub.puz.sldm.sldx.tif.tiff .vdx.vsd.vss.vst.vsx.vtx.xlam.xlm.xls.xlsb.xlsm.xlsx	A list of folders on computer drives to be encrypted or excluded from encryption, which can then be accessed by all managed users who have access to the computer. See Encryption Rules for information.
Common Encrypted		Important: Overriding directory protection can result in an unbootable computer and/or require reformatting drives.
Folders	.xsf.zip.rar %ENV:USERPROFILE%\Desktop	More
	%ENV:USERPROFILE%\Download	The available drive letters are:
	-^%ENV:SYSTEMDRIVE%\;dat	#: Refers to all drives
		f#: Refers to all fixed (non-removable) drives
		r#: Refers to all removable drives
		AES 256 or AES 128
Common		Encryption algorithm used to encrypt data at the endpoint (all users) level.
Encryption	AES256	System paging files are encrypted using AES 128.
Algorithm		Encryption algorithms in order of speed, fastest first, are AES 128, AES 256, 3DES.
		7
		String - maximum of 100 entries of 500 characters each
	<u>Exe List</u> winword.exe	We do not recommend adding explorer.exe or iexplorer.exe to the ADE list, as unexpected or unintended results may occur.
	excel.exe	However, explorer exe is the process used to create a new notepad file on the
	powerpnt.exe msaccess.exe	desktop using the right-click menu. Setting encryption by file extension, instead of the ADE list, provides more comprehensive coverage.
Application	winproj.exe	Changes to this policy do not affect files already encrypted because of this policy.
Data Encryption List	outlook.exe acrobat.exe	List process names of applications (without paths) whose new files you want encrypted, separated by carriage returns. Do not use wildcards.
	visio.exe	More
	mspub.exe winzip.exe	You can also specify these process names (separated by commas) via the registry value HKLM\SOFTWARE\Credant\CMGShield\ApplicationDataEncryptionList.
	winrar.exe onenote.exe onenotem.exe	The Encryption client encrypts all new files (not already being encrypted by Common Encrypted Folders and User Encrypted Folders) on the current computer hard drives created by these application processes whenever they are owned by a currently-logged-on managed user. This may include files excluded from

Manage Policies

		encryption by Common Encrypted Folders and/or User
		Encrypted Folders.
		The following folders and their subfolders are always excluded from encryption by this policy:
		C:\Windows\system32
		C:\Windows\Software Distribution
		C:\Windows\Security
		C:\System Volume Information\Program Files\Credant\(.dll.exe.sys.mac.ddp.wip.rty.nmd.inv)
		We strongly recommend not listing applications or installers that write system- critical files. Doing so could result in encryption of important system files, which could make a Windows endpoint unbootable.
		Common process names:
		Outlook: outlook.exe
		Word: winword.exe
		FrontPage: frontpg.exe
		PowerPoint: powerpnt.exe
		Access: msaccess.exe
		WordPad: wordpad.exe
		Microsoft Paint: mspaint.exe
		Excel: excel.exe
		The following hard-coded system and installer process names are ignored if specified in this policy (you can also add to this list via the registry value HKLM\SOFTWARE\Credant\CMGShield\EUWPrivilegedList):
		hotfix.exe, a Windows update process
		update.exe, a Windows update process
		setup.exe, a third-party installer process
		msiexec.exe, a third-party installer process
		wuauclt.exe, a Windows update process
		wmiprvse.exe, a Windows system process
		migrate.exe, a Windows update process
		unregmp2.exe, a Windows update process
		ikernel.exe, a third-party installer process
		wssetup.exe, the Windows Encryption client installer
		svchost.exe, a Windows system process
		When this policy is selected, the paths listed in the environment variables TEMP and TMP are encrypted. TEMP and TMP for the operating system are encrypted with the Common Encryption Key.
Encrypt Temporary Files	Not Selected	To reduce encryption sweep time, the contents of the TEMP and TMP folders are cleared for initial encryption, as well as updates to this policy. However, if your organization uses a third-party application that requires the file structure within the \temp directory to be preserved, you should prevent this deletion.
		To disable temporary file deletion, create DeleteTempFiles (REG_DWORD) and set its value to 0 in the registry at HKLM\SOFTWARE\Credant\CMGShield.
Encrypt User		When this policy is selected, the following are encrypted:
Profile Documents	Not Selected	 The users profile (C:\Users\jsmith) with the User Data Encryption Key \Users\Public with the Common Encryption Key
Encrypt Windows Paging File	Selected	When this policy is selected, the Windows paging file is encrypted. A change to this policy requires a reboot.
Managed		String - maximum of 100 entries of 500 characters each (up to a maximum of 2048 characters)
Services	null	When a Service is managed by this policy, the Service is started only after the user is logged in and the Encryption client is unlocked. This policy also ensures that the Service managed by this policy is stopped before the Encryption client is locked

		during logoff. This policy can also prevent a user logoff if a Service is unresponsive.
		More
		Syntax is one Service name per line. Spaces in the Service name are supported. Wildcards are not supported. Entries are not case-sensitive. For example, GoogleDesktop Manager is the same as googledesktopmanager.
		The Service "log on as" setting has no bearing on whether or not the Encryption client can control it. It does not matter if a user logs on with user credentials verses the local system.
		The startup type (Automatic or Manual) does not affect the ability of the Encryption client to control it. Automatic or Manual startup is acceptable.
		Managed Services will not be started if an unmanaged user logs on.
		No Overwrite, Single-pass Overwrite, Three-pass Overwrite, Seven-pass Overwrite
		Once encryption is complete, this policy determines what happens to the unencrypted residue of the original files:
		No Overwrite deletes it. This value yields the fastest encryption processing.
Secure Post- Encryption	Cinala Dana Ousanista	Single-pass Overwrite overwrites it with random data.
Cleanup	Single Pass Overwrite	 Three-pass Overwrite overwrites it with a standard pattern of 1s and 0s, then with its complement, and then with random data.
		 Seven-pass Overwrite overwrites it with a standard pattern of 1s and 0s, then with its complement, and then with random data five times. This value makes it most difficult to recover the original files from memory, and yields the most secure encryption processing.
		When this policy is selected, the Windows Credentials will be secured by encrypting the entire registry with the exception of registry information required for computer boot. The information required for computer boot includes HKLM/SYSTEM and all sub-keys.
Secure Windows	Selected	This policy value will be automatically set to Selected if SDE is enabled.
Credentials		More
		A reboot is required when a change to this policy is delivered. To control this reboot, configure the following policies: Force Reboot on Update, Length of Each Reboot Delay, and Number of Reboot Delays Allowed.
Block Unmanaged Access to Domain Credentials	Selected	This policy prevents unmanaged applications from accessing the Windows domain credentials when a user is logged in.
Secure Windows Hibernation File	Not Selected	When enabled, the hibernation file is encrypted only when the computer enters hibernation. The Encryption client disengages protection when the computer comes out of hibernation, providing protection without impacting users or applications while the computer is in use.
Prevent Unsecured Hibernation	Not Selected	When enabled, the Encryption client does not allow computer hibernation if the client is unable to encrypt the hibernation data.
		Highest, High, Normal, Low, Lowest
		Specifies the relative Windows priority of encrypted folder scanning. High and Highest prioritize scanning speed over computer responsiveness, Low and Lowest prioritize computer responsiveness over scanning speed and favor other resource-intensive activities, and Normal balances the two.
		The client checks for a changed Workstation Scan Priority before processing the next file.
Workstation	Lowest	The scan priority levels are used in two different ways.
Scan Priority	Lowest	 These values correspond with the values used by the Microsoft SDK to set thread execution priority.
		The client uses these values to introduce a delay in the encryption sweep after every single file is processed.
		The values translate to the following millisecond delay ranges, where the
		encryption thread will sit idle and then return full control to the operating system:

		String - maximum of 1500 characters
		List fully qualified Policy Proxy hostnames, or IP addresses, separated by carriage returns. Ports cannot be specified in this policy.
		More
		Once a valid entry is found, the remainder of the Policy Proxies listed are ignored.
		Entries are processed in the following order:
		 GKConnections Override (this registry entry overrides all other entries) GKConnections (this registry entry is set automatically by the client, based on the this policy) GK
Policy Proxy Connections	String	To override this policy and specify ports via the registry key, set HKLM\Software\Microsoft\Windows\NT\CurrentVersion\ Winlogon\CMGShield\GKConnectionsOverride. The client communicates with Policy Proxies using the GKPORT (the default is 8000). If necessary, change that port via the registry key HKLM\SOFTWARE\Microsoft\Windows\NT\Current Version\Winlogon\CMGShield\GKPort. Inherited values for this policy accumulate.
		In order for the client to connect to a Policy Proxy specified in this policy, it must be in the same group as the Policy Proxy specified during client installation.
		Because the client supports up to 255 users per computer, this policy is available only at the Enterprise policy level.
		1-1440 minutes
Policy Proxy Polling Interval	720	The interval that the client attempts to poll Policy Proxy for policy updates, and send inventory information to Policy Proxy.
interval		The client also attempts to poll Policy Proxy each time a user logs on.
See <u>basic</u> <u>settings</u>		

Variables

Some Windows policies support the following variables. A pathname can consist entirely of one or more of these variables, or can include one or more of these variables at any point.

To get directory locations that these CSIDL values resolve to, go to $\underline{\text{http://msdn.microsoft.com/en-us/library/bb762494.aspx}}$. All names listed on the MSDN page are CSIDL_<name>.

•	Includes any of the following Windows CSIDL constants:
	DESKTOP
	INTERNET
	PROGRAMS
	CONTROLS
	PRINTERS
	PERSONAL
	FAVORITES
	STARTUP
	RECENT
	SENDTO
	STARTMENU

STARTMENU MYDOCUMENTS

MYMUSIC

	MYVIDEO
	DESKTOPDIRECTORY
	DRIVES
	NETWORK
	NETHOOD
	FONTS
	TEMPLATES
	COMMON_STARTMENU
	COMMON_PROGRAMS
	COMMON_STARTUP
	COMMON_DESKTOPDIRECTORY
	APPDATA
	PRINTHOOD
	LOCAL_APPDATA
	ALTSTARTUP
	COMMON_ALTSTARTUP
	COMMON_FAVORITES
	INTERNET_CACHE
	COOKIES
	HISTORY
	COMMON_APPDATA
	WINDOWS
	SYSTEM
	PROGRAM_FILES
	PROGRAMFILES
	MYPICTURES
	PROFILE
	SYSTEMX86
	PROGRAM_FILESX86
	PROGRAMFILESX86
	PROGRAM_FILES_COMMON
71	

PROGRAM_FILES_COMMONX86

COMMON_TEMPLATES

COMMON_DOCUMENTS

COMMON_ADMINTOOLS

ADMINTOOLS

CONNECTIONS

COMMON_MUSIC

COMMON_PICTURES

COMMON_VIDEO

RESOURCES

PROFILES

- Includes a numeric or text value stored in the registry for the Current User. If you specify a path but not an item, the client uses the default value
- Includes a numeric or text value stored in the registry for the local computer. If you specify a path but not an item, the client uses the default value
- Includes the value of a Windows local environment variable
- Includes the % character

Windows Policies that Require Reboot

- SDE Encryption Enabled
- Encrypt Windows Paging File
- Secure Windows Credentials
- All PCS policies

Windows Policies that Require Logoff

- SDE Encryption Enabled
- User state change to Suspended
- EMS Encrypt External Media
- EMS Scan External Media
- EMS Encryption Algorithm
- EMS Exclude CD/DVD Encryption
- EMS Data Encryption Key

Encryption Rules

Important: Before you begin, you must understand directory protection, as well as when and how to override directories and file types. If you do not completely understand the information included in this section, as well as the encryption settings that currently exist on your environment, do not attempt to override protected directories.

Do not encrypt files with the extension tmp. Encrypting .tmp files may result in an unbootable computer and/or require reformatting drives.

Protected Directories

The Encryption client has several directories that are, by default, protected from encryption. The level of protection varies from folder to folder. If a folder is protected, then the only way to encrypt data within that directory is to use the override modifier described in Modifiers - What they are and what they do.

There are four levels (categories) of protection that directories and files can have: 0, 1, 2, and 3. Category 3 is the most protected level.

The following directories have Category 0 exclusions (including subfolders unless specified):

NOTE: All exclusions may not apply in all environments.

%SYSTEMDRIVE% (no subfolders)

Profile directory ("C:\Documents and Settings" in XP and "C:\Users" in Win7)

%SYSTEMROOT%

Default user profile ("C:\Documents and Settings\Default User" in XP and "C:\Users\Default" in Win7)

CSIDL_PROGRAM_FILES

CSIDL_PROGRAM_FILESX86

%SYSTEMROOT%\Driver Cache\i386

<Windows File Protection> ([HKLM\Software\Microsoft\Windows NT\CurrentVersion] SourcePath:REG_SZ)

%SYSTEMDRIVE%\I386

CSIDL_COMMON_APPDATA

%SYSTEMROOT%\temp\WgaErrLog.txt

F#:\boot

CSIDL_COMMON_APPDATA\Credant

CSIDL_COMMON_APPDATA\Dell\Dell Data Protection

CSIDL_COMMON_APPDATA\CmgAdmin.log

F#:\bootmgr

%SYSTEMROOT%\SysWOW64

CSIDL_COMMON_APPDATA\Microsoft\Windows\Caches

CSIDL_PROGRAM_FILES\Symantec

CSIDL_PROGRAM_FILESX86\Symantec

CSIDL_PROGRAM_FILES_COMMON\Symantec

CSIDL_PROGRAM_FILES_COMMONX86\Symantec

CSIDL_COMMON_APPDATA\Symantec

CSIDL_PROGRAM_FILES\McAfee

CSIDL_PROGRAM_FILESX86\McAfee

CSIDL_PROGRAM_FILES_COMMON\McAfee

CSIDL_PROGRAM_FILES_COMMONX86\McAfee

CSIDL_COMMON_APPDATA\McAfee

CSIDL_PROGRAM_FILES\Trend Micro

CSIDL_PROGRAM_FILESX86\Trend Micro

CSIDL_COMMON_APPDATA\Trend Micro

CSIDL_PROGRAM_FILES\Microsoft Security Client

CSIDL_PROGRAM_FILESX86\Microsoft Security Client

CSIDL_COMMON_APPDATA\Microsoft Security Client

CSIDL_PROGRAM_FILES\Sophos

CSIDL_PROGRAM_FILESX86\Sophos

CSIDL_COMMON_APPDATA\Sophos

CSIDL_PROGRAM_FILES\Kaspersky

CSIDL_PROGRAM_FILESX86\Kaspersky

CSIDL_COMMON_APPDATA\Kaspersky

CSIDL_PROGRAM_FILES\Kaspersky Lab

CSIDL_PROGRAM_FILESX86\Kaspersky Lab

CSIDL_COMMON_APPDATA\Kaspersky Lab

%SYSTEMROOT%\Config.MSI

%SYSTEMROOT%\\$Windows.~BT

F#:\.xen

%ProgramFiles%\Dell\Dell Data Protection\Encryption\Local Console.exe

%SystemDrive%\Program Files\WindowsApps

%SystemRoot%\SystemApps

%SystemRoot%\InfusedApps

The following directories have Category 1 exclusions:

%SYSTEMROOT%\System32\.tmp

The following directories have Category 2 exclusions:

%SYSTEMROOT%\System32

F#:\System Volume Information

%SYSTEMROOT%\SoftwareDistribution

%SYSTEMROOT%\Security

The following directories have Category 3 exclusions:

<Encryption client install directory>\.dll.exe.sys.mac.ddp.tbp.wip.rty.nmd.inv.config.sdf.installstate
%SYSTEMROOT%\system32\drivers\CmgHiber.dat

Modifiers - What they are and what they do

The ^ character is the "Override" command. It causes the listed policy to override protected directories. It may be followed by a "2" or a "3", indicating the level of the override.

The @ character is the "At" command. It will cause the listed policy to be applied at the specified folder location only (subdirectories of that folder will not be subject to that policy).

The - is the "Not" command. It will cause the listed policy to be an exclusion policy instead of an inclusion policy.

Using the Override Modifier

The Override Modifier can be used to allow for inclusion or exclusion in cases where there is a higher level of protection. The following are the different override levels supported:

- ^ Category 1 Override
- ^2 Category 2 Override
- ^3 Category 3 Override

Encrypting/Not Encrypting Extensions

In order to include or exclude filename extensions using encryption rules, use the following within your rules:

- After specifying your directory location, use a semi-colon (;) before listing your extensions.
- After specifying your directory location, you do not need to list a trailing backslash (\).
- The period is used as a delineator. It is not meant to be used as "dot-extension." However, you can precede the first extension with a period.
- The Override command (^) can be used with extensions.
- The At command (@)can be used with extensions.
- The Not command (-) can be used with extensions.
- You can make any combination of the modifiers with an extension inclusion or exclusion.

C:\;doc.xls.ppt.docx.xlsx.pptx

What this does: On the C: drive, this encrypts all doc, docx, xls, xlsx, ppt, and pptx files that do not exist within any protected directory.

^C:\:txt

What this does: On the C: drive, this encrypts all txt files that are not in a directory that has protection of Category 1 or better.

-C:\;bat.exe.dll

What this does: On the C: drive, this causes all files with the extension bat, exe, and dll to not be encrypted.

Encrypting/Not Encrypting Directories

In order to include or exclude directories using encryption rules, use the following within your rules:

- After specifying your directory location, you do not need to list a trailing backslash (\).
- If you list a directory for inclusion, every file contained within that directory will be encrypted.
- The Override command (^) can be used with folders only when specifying an exclusion policy.
- The At command (@) can be used with folders.
- The Not command (-) can be used with folders.
- You can make any combination of the supported modifiers for folders. If the **Override** command (^) is used, the statement can only be an exclusion statement.

C:\CustomApplication\DataStore

What this does: On the C: drive, this causes every file within the directory of \CustomApplication\DataStore to be encrypted.

-C:\Documents and Settings\All Users

What this does: On the C: drive, this applies a Category 0 level of protection to the directory of \Documents and Settings\All Users.

-^2C:\CustomApplication\dll

What this does: On the C: drive, this applies a Category 2 level of protection to the directory of \CustomApplication\dII.

Sub-directories and Precedence of Directives

Encryption rules may be listed in any order. If more than one rule applies to a given folder or file, then the following general rules determine which one prevails:

- 1. The rule with the more specific path prevails.
- 2. If the rules have equal paths, specified extensions prevail.
- 3. If the rules both specify extensions, exclusion overrides inclusion.

C:\

-C:\MyApplicationFolder

What this does: (1st statement is an inclusion, 2nd statement is an exclusion) On the C: drive, encrypt all files in folders at the root level and below, except for files residing in the <u>protected directories</u> and any files residing in "MyApplicationFolder".

C:\

-C:\MyApplicationFolder

^C:\;doc.xls.ppt.docx.xlsx.pptx

What this does: (1st statement is an inclusion, 2nd statement is an exclusion, 3rd statement is an inclusion) On the C: drive, encrypt all files in folders at the root level and below, except for files residing in the protected directories and files residing in "MyApplicationFolder". However, override and encrypt files with the extension doc, docx, xls, xlsx, ppt, and pptx in the protected directories and in the folder "MyApplicationFolder".

C:\

- -C:\MyApplicationFolder
- ^C:\;doc.xls.ppt.docx.xlsx.pptx
- -^C:\MyApplicationFolder;doc.xls.ppt.docx.xlsx.pptx

What this does: (1st statement is an inclusion, 2nd statement is an exclusion, 3rd statement is an inclusion, 4th statement is an exclusion) On the drive of C:, encrypt all files in folders at the root level and below, except for files residing in the <u>protected directories</u> and files residing in "MyApplicationFolder". However, override and encrypt files with the extension doc, docx, xls, xlsx, ppt, and pptx in the protected directories, but not in the folder "MyApplicationFolder".

C:\

- -C:\MyApplicationFolder
- ^C:\;doc.xls.ppt.docx.xlsx.pptx
- -^C:\MyApplicationFolder;doc.xls.ppt.docx.xlsx.pptx
- -^C:\MyApplicationFolder\Templates

What this does: (1st statement is an inclusion, 2nd statement is an exclusion, 3rd statement is an inclusion, 4th statement is an exclusion, 5th statement is an exclusion) On the C: drive, encrypt all files in folders at the root level and below, except for files residing in the <u>protected directories</u> and files residing in "MyApplicationFolder". However, override and encrypt files with the extension doc, docx, xls, xlsx, ppt, and pptx in the protected directories, but not in the folder "MyApplicationFolder". Additionally, the folder "MyApplicationFolder\Templates" gains a category 2 protection causing no data to be encrypted there, since the inclusion statements are less than or equal to category 2.

Environment Variables, KNOWNFOLDERID constants, and CSIDL

Using encryption rules, you can make use of environment variables, KNOWNFOLDERID constants (Windows 7 and later), and CSIDL values (pre-Windows 7 computers) in addition to specifying your policy folder locations as absolute paths. In order to use variables in your encryption rules, follow these formatting rules:

- Before and after the use of the variable, use a percent sign (%).
- For environment variables, you must use "ENV:" preceding the variable name, all contained within the percent signs.
- For KNOWNFOLDERID constants, you must use "FOLDERID_" preceding the variable name. Percent signs are not used.
- For CSIDL variables, you must use "CSIDL:" preceding the variable name, all contained within the percent signs.
- Ensure that your variable contains a trailing backslash if you plan on appending another directory after the use of the variable.

• Variables can be used in both folder and extension inclusion or exclusion rules.

The following environment variables are supported:

All locally defined environment variables

The following KNOWNFOLDERID values are supported:

RoamingAppData Cookies Desktop **Favorites** InternetCache LocalAppData Music **Pictures Documents** Programs Recent SendTo StartMenu Startup **Templates** The following CSIDL variables are supported: **APPDATA COOKIES** DESKTOPDIRECTORY **FAVORITES** INTERNET_CACHE LOCAL_APPDATA **MYMUSIC MYPICTURES PERSONAL PROGRAMS RECENT SENDTO STARTMENU**

STARTUP

TEMPLATES

Some examples of variables used in folder and extension policy:

%ENV:SYSTEMDRIVE%\CustomApplication

What this does: This lists the folder \CustomApplication\ for encryption on the default drive where Windows is installed.

-%ENV:USERPROFILE%\Desktop

What this does: This lists the user who is logged in to have their desktop obtain a category 0 protection.

Application Data Encryption (ADE)

ADE encrypts any file written by a protected application, using a category 2 override. This means that any directory that has a category 2 protection or better, or any location that has specific extensions protected with category 2 or better, will cause ADE to not encrypt those files.

For example, ADE will not encrypt any files written into /Windows/System32 folder, because this directory has a default protection of category 2.

Example Policies for Common/User Key Encryption

The following set of encryption rules encrypts most of the drive, including standard Microsoft Office-type documents in the Documents and Settings folders. This policy set should only be used for Common Encryption (not User Encryption, Encryption External Media, or SDE). This is considered a strong policy set, and will typically require some adjustments for local conditions and requirements.

%ENV:SYSTEMDRIVE%\

^%ENV:USERPROFILE%\;<insert standard office extensions here >

FOLDERID_Documents or %CSIDL:PERSONAL% (pre-Windows 7)

%ENV:USERPROFILE%\Desktop\

^%ENV:USERPROFILE%\;mp3.mp4.mpeg.avi.wmv.wav

-^%ENV:USERPROFILE%\Desktop\;<system file extensions to exclude>

-%ENV:SYSTEMDRIVE%\;<system file extensions to exclude>

-%ENV:SYSTEMDRIVE%\config.msi

What this does:

Encrypts all of C:\, except for protected directories

Encrypts standard Microsoft Office documents across the drive, except for protected directories, although it will encrypt them in the USERPROFILE directory.

Encrypts all of My Documents

Encrypts all of the Desktop, except for any selected excluded extensions

Excludes common system files from encryption

Excludes all encryption from C:\config.msi directory, due to MSI upgrade migration issues

All paths are dynamic based on environment variables

System Data Encryption (SDE)

SDE is an intelligent file-based encryption method where the encryption key is auto-authenticated during the volume mount process. A unique SDE Key is generated for each volume that is targeted for encryption by SDE. This allows the SDE Key to be used to encrypt data that would not otherwise be possible with the Common or User Keys due to time-based availability of the keys.

Due to the difference in how the SDE Key can be used, there are several caveats to be aware of when considering use of this feature.

- The built-in exclusions covered in <u>protected directories</u> do not apply to SDE. By design, SDE excludes portions of the operating system that are necessary for booting and updating.
- If a file is targeted for encryption by any key other than SDE in addition to SDE, then SDE will not encrypt the file.
- All encryption rules apply when writing SDE policies.

Policies for SDE Encryption

The following is the default SDE policy. Any changes to this policy should be considered carefully.

The following directories have Category 1 exclusions (including subfolders unless specified):

%SystemRoot%\system32\ntoskrnl.exe

%SystemRoot%\system32\ntkrnlpa.exe

%SystemRoot%\system32\ntkrnImp.exe

%SystemRoot%\system32\hal.dll

%SystemRoot%\system32\halacpi.dll

 $\label{lem:cotwist} $$ systemRoot\% \simeq 32 \cap 32 \cap 32. $$$

%SystemRoot%\system32\winload.exe

%SystemRoot%\system32\kdcom.dll

%SystemRoot%\system32\kd.dll

%SystemRoot%\system32\kdnet.dll

%SystemRoot%\system32\kd1394.dll

%SystemRoot%\system32\kdusb.dll

 $\label{lem:cot} $$ systemRoot \space{-0.05cm} system 32 \kdstub.dII $$$

%SystemRoot%\system32\mcupdate_AuthenticAMD.dll

%SystemRoot%\WinSxS*\mcupdate_AuthenticAMD.dll

%SystemRoot%\WinSxS*\mcupdate_GenuineIntel.dll

%SystemRoot%\system32\mcupdate_GenuineIntel.dll

%SystemRoot%\system32\winload.exe

%SystemRoot%\system32\PSHED.dll

%SystemRoot%\system32\BOOTVID.dII

%SystemRoot%\system32\CLFS.SYS

%SystemRoot%\system32\CI.dII

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 $\label{lem:cot} $$\S sethc.exe $$$

%SystemRoot%\system32\utilman.exe

%SystemRoot%\system32\narrator.exe

%SystemRoot%\system32\magnify.exe

%SystemRoot%\system32\osk.exe

%SystemRoot%\system32\csrss.exe

%SystemRoot%\system32\hvloader.exe

%SystemRoot%\system32\hvix64.exe

%SystemRoot%\system32\hvax64.exe

%ProgramFiles%\Dell\Dell Data Protection\Encryption\Local Console.exe

%SystemRoot%\boot

%SystemRoot%\prefetch

%SystemRoot%\system32\Boot

%SystemRoot%\Config.MSI

%SystemRoot%\system32\drivers

%SystemDrive%\Windows.old\Windows\WinSxS

%SystemRoot%\fonts

%SystemDrive%\boot

%SystemDrive%\boot\bcd.log

%SystemDrive%\boot\bcd.log1

 ${\tt \%SystemDrive\%boot\bcd.log2}$

%SystemDrive%\boot\bcd

%SystemDrive%\boot\bootstat.dat

%SystemDrive%\boot\memtest.exe

%SystemRoot%\inf

%SystemRoot%\System Volume Information

%SystemRoot%\system32\CodeIntegrity\bootcat.cache

%SystemRoot%\system32\CodeIntegrity\driver.stl

%SystemRoot%\;dll.exe.sys.ocx.man.cat.manifest.policy

%SystemRoot%\system32

%SystemRoot%\WinSxS

%SystemRoot%\fonts

%SystemRoot%\WinSxS\pending.xml

%SystemRoot%\WinSxS\Temp

%SystemRoot%\servicing\packages

%SystemRoot%\SoftwareDistribution\Download

%SystemDrive%\Program Files\Symantec

%SystemDrive%\Program Files (x86)\Symantec

%SystemDrive%\Program Files\Common Files\Symantec Shared

%SystemDrive%\Program Files (x86)\Common Files\Symantec Shared

%SystemDrive%\ProgramData\Symantec

%AllUsersProfile%\Symantec

%SystemDrive%\Program Files\PGP Corporation

%SystemDrive%\PGPWDE00

%SystemDrive%\PGPWDE01

%SystemDrive%\PGPWDE02

%SystemDrive%\PGPWDE03

%SystemDrive%\SafeBoot.fs

%SystemDrive%\SafeBoot.rsv

%SystemDrive%\SafeBoot.csv

%SystemDrive%\Program Files\McAfee

%SystemDrive%\Program Files\Common Files\McAfee

%SystemDrive%\Program Files\McAfee

%SystemDrive%\Program Files (x86)\Common Files\McAfee

%SystemDrive%\Program Files (x86)\McAfee

%ProgramData%\McAfee\Common Framework

%AIIUsersProfile%\McAfee\Common Framework

%SystemDrive%\Program Files\Trend Micro

%SystemDrive%\Program Files (x86)\Trend Micro

%AllUsersProfile%\Trend Micro

%SystemDrive%\Program Files\Microsoft Security Client

%SystemDrive%\Program Files (x86)\Microsoft Security Client

%AllUsersProfile%\Microsoft Security Client

%SystemDrive%\Program Files\Sophos

%SystemDrive%\Program Files (x86)\Sophos

%AllUsersProfile%\Sophos

%SystemDrive%\Program Files\Kaspersky

%SystemDrive%\Program Files (x86)\Kaspersky

%AllUsersProfile%\Kaspersky

%SystemDrive%\Program Files\Kaspersky Lab

%SystemDrive%\Program Files (x86)\Kaspersky Lab

%AllUsersProfile%\Kaspersky Lab

%ProgramData%\Microsoft\Windows\Caches

%SystemDrive%\\$Windows.~BT

%SystemRoot%\system32\.tmp

%SystemDrive%\Program Files\WindowsApps

%SystemRoot%\SystemApps

%SystemRoot%\InfusedApps

The following directories have Category 3 exclusions (including subfolders unless specified):

F#:\System Volume Information\MountPointManagerRemoteDatabase

F#:\.xen

\Control\NIs\CodePage] and [HKLM\SYSTEM\CurrentControlSet\Control\NIs\Language])

%APPDATA%\Roaming\Wave Systems Corp\DocMgr

%APPDATA%\Roaming\McAfee

%APPDATA%\Credant\.log

%APPDATA%\Dell\Dell Data Protection\.log

%APPDATA%\CmgAdmin.log

The following directories have Category 3 exclusions (no subfolders):

%SystemDrive%\AUTOEXEC.BAT

%SystemDrive%\BOOT.INI

%SystemDrive%\BOOTMGR

%SystemDrive%\BOOTNXT

%SystemDrive%\BOOTSECT.BAK

%SystemDrive%\CONFIG.SYS

%SystemDrive%\IO.SYS

%SystemDrive%\MSDOS.SYS

 ${\tt \%SystemDrive\%\backslash NTDETECT.COM}$

%SystemDrive%\NTLDR

%SystemDrive%\install.log

%SystemDrive%\pagefile.sys

%SystemDrive%\hiberfil.sys

%SystemDrive%\boot.bmp

%SystemDrive%\CMG3301d.DAT

%SystemDrive%\credsed.dat

%SystemDrive%\credsed.log

%SystemRoot%\bootstat.dat

%SystemDrive%\credsde.boo

%SystemRoot%\fonts\vgaoem.fon

%SystemRoot%\AppPatch\drvmain.sdb

%SystemRoot%\system32\config\.evt.ftl.regtrans-ms.blf

%SystemRoot%\system32\config\system

%SystemRoot%\system32\config\system.log

%SystemRoot%\system32\config\system.log1

%SystemRoot%\system32\config\system.log2

%SystemRoot%\system32\config\system.alt

 $\label{lem:config} $$ SystemRoot%\system.sav $$$

%SystemRoot%\system32\config\SYSTEM.CB1

%SystemRoot%\system32\config\SYSTEM.CB2

%SystemRoot%\system32\config\SYSTEM.CB3

%SystemRoot%\system32\config\SYSTEM.CBT

%SystemRoot%\system32\config\CREDSDE.BAD

%SystemRoot%\system32\winload.exe

 $\label{lem:cot} $$ systemRoot \slashed system 32 \le exe . $$$

%SystemRoot%\system32\winlogon.exe

%SystemRoot%\system32\autochk.exe

%SystemRoot%\system32\apisetschema.dll

%SystemRoot%\system32\catroot*\windows-legacy-whql.cat

%SystemRoot%\WinSxS*\drvmain.sdb

Notes

Protection of SystemRoot

The protection of the SystemRoot directory is specified so that only the root itself is protected, meaning that the sub-directories of the SystemRoot do not inherit this protection. This would be the equivalent of using the following policy:

-@C:\

Encryption External Media

Encryption External Media operates off its own set of encryption rules independent of what Common Encryption, User Encryption, or SDE uses. User/Common Encryption policies will only be applied to fixed disks. If an endpoint is determined to be removable storage, then Encryption External Media policy will be applied.

What Happens When Policies Tie

- When an exclusion and inclusion statement both apply to a given directory or file, the exclusion policy prevails.
- If you apply a Common encryption policy and User encryption policy specifically to the same file or location, the file or location will be Common Key encrypted.
- If you apply a Common encryption policy and an SDE encryption policy specifically to the same file or location, the file or location will be Common Key encrypted.
- If you apply a user encryption policy and an SDE encryption policy specifically to the same file or location, the file or location will be User Key encrypted.

See Sub-directories and Precedence of Directives for more information.

Generic Drive Statements

Instead of having to specify each drive in an inclusion or exclusion rule by its drive letter assignment, you may use a generic rule to target either All Fixed Drives or all Removable Drives.

Fixed Drive Usage: Replace the drive letter with F#.

Example: F#:\ instead of C:\ or D:\

The Fixed Drive rule can only be used within a Common Encrypted Folder policy, User Encrypted Folder policy, and/or SDE policy.

Removable Drive Usage: Replace the drive letter with R#.

Example: R#:\ instead of F:\ or H:\

The Removable Drive rule can only be used within an Encryption External Media Encryption Rules policy.

Remove System Data Encryption (SDE)

To completely decrypt SDE encrypted files, apply the following policies:

SDE Encryption Enabled = Not Selected

Encrypt Windows Paging File = Not Selected

Secure Windows Credentials = Not Selected

Remove HCA-Based Encryption

To remove hardware-based encryption, issue a policy of Hardware Crypto Accelerator (HCA) = Off.

Authentication

Authentication

Authentication policies allow you to configure user experience and Windows authentication.

Policy descriptions also display in tooltips in the Remote Management Console.

Policy	Default Setting	Description		
Pre-Boot Authentication This technology provides a secure, tamper-proof environment by preventing data from being read from the hard disk or operating system until the user enters the correct PBA login credentials. Pre-Boot Authentication serves as an extension of the BIOS or boot firmware to provide a trusted authentication layer, separate from the operating system.				
Authentication Method	Password	Password Smart Card Select the type of authentication to use when logging in to the PBA.		
Support Information Text	<u>String</u>	String 0-512 characters Text to display on the PBA support information screen. Customize the message to include specific instructions about how to contact the Help Desk or Security Administrator. Not entering text in this field results in no support contact information being available for the user.		
Support illiormation Text	Please contact your system administrator.	Text wrapping occurs at the word level, not the character level. If a single word is more than approximately 50 characters in length, it will not wrap and no scroll bar will be present, therefore the text will be truncated. The text in this policy is translatable.		
PBA Title Text	0-17 characters	O-17 characters The text to display on the top of the PBA screen. Not entering text in this field results in no title being displayed. Text does not wrap, so entering more than 17 characters results in the text being truncated. The text in this policy is translatable.		
Sync Users at PBA Activation	Not Selected	Select this option to sync all users of this computer with the PBA database during PBA activation.		
See advanced settings				
Windows Authentication This technology sets definitions around user login, specifically what is required to login (password, smart card, fingerprint), password recovery options, and password requirements (number of attempts allowed, password length).				
Logon Authentication Policy for Administrators	Windows Password and None	The possible VALUES are: Windows Password None Fingerprints Contactless Card One-Time Password		
Logon Authentication Policy for Users	Windows Password and None	The possible VALUES are: Windows Password None Fingerprints		

See advanced settings		Contactless Card One-Time Password
Microsoft Passport This technology allows the use of Mi	crosoft Passport, specifically authe	entication attempts and PIN usage.
Microsoft Passport	Off	On Off Toggle to On to enable Microsoft Passport. If this policy is toggled to Off, no Microsoft Passport policies are enabled. Microsoft Passport is supported only on computers running Windows 10.
Maximum Windows Passport Authentication Attempts	3	1-10 attempts Number of chances the user has to authenticate with correct credentials.
Logon Authentication Method	PIN	Currently, logon authentication method is supported only with PIN.
PIN Length	8	4-127 numeric characters Minimum number of characters required in the PIN.

Advanced Authentication

Authentication policies allow you to configure user experience and Windows authentication.

Policy descriptions also display in tooltips in the Remote Management Console.

Policy	Default Setting	Description		
Pre-Boot Authentication This technology provides a secure, tamper-proof environment by preventing data from being read from the hard disk or operating system until the user enters the correct PBA login credentials. Pre-Boot Authentication serves as an extension of the BIOS or boot firmware to provide a trusted authentication layer, separate from the operating system.				
Authentication Method	Password	Password Smart Card Select the type of authentication to use when logging in to the PBA.		

Support Information Text	<u>String</u> Please contact your system administrator.	String 0-512 characters Text to display on the PBA support information screen. Customize the message to include specific instructions about how to contact the Help Desk or Security Administrator. Not entering text in this field results in no support contact information being available for the user. Text wrapping occurs at the word level, not the character level. If a single word is more than approximately 50 characters in length, it will not wrap and no scroll bar will be present, therefore the text will be truncated. The text in this policy is translatable.
PBA Title Text	0-17 characters	O-17 characters The text to display on the top of the PBA screen. Not entering text in this field results in no title being displayed. Text does not wrap, so entering more than 17 characters results in the text being truncated. The text in this policy is translatable.
Sync Users at PBA Activation	Not Selected	Select this option to sync all users of this computer with the PBA database during PBA activation.
Legal Notice Text	String 0-512 characters	String 0-512 characters Text to display before being allowed to log on to the computer. For example: By clicking OK, you agree to abide by the acceptable computer use policy. Not entering text in this field results in no text, OK, or Cancel buttons being displayed. Text wrapping occurs at the word level, not the character level. If a single word is more than approximately 50 characters in length, it will not wrap and no scroll bar will be present, therefore the text will be truncated. The text in this policy is translatable.

		Specify the questions that will be presented to Windows users during recovery questions
		setup. Separate each question by a carriage return. These questions will be used if the Windows password is forgotten. At least 3 questions must be specified.
		What is the name of your first pet?
		Who was your first employer?
Self Help Questions (Pre-8.0 clients)	At least 3 selectable questions	What was the first concert you attended?
		What was the make of the first car you owned?
		What was the last name of your third grade teacher?
		In what city or town did your mother and father meet?
		In what city or town was your first job?
		String 1-100 characters
Initial Access Code	String 1-100 characters	This policy is used to log on to a computer when network access to the Dell Server and Active Directory (AD) are both unavailable. The Initial Access Code policy should only be used if absolutely necessary, it is not the recommended method to log in. Using the Initial Access Code policy does not provide the same level of security as the usual authentication method of logging in using User Name, Domain, and Password.
		The Initial Access Code can only be used one time, immediately after activation. The first domain login that occurs after the Initial Access Code is entered will be cached and the Initial Access Code entry field will not be displayed again.
		9-32 characters with at least 1 number and 1 letter
Encryption Administrator Password	String	Computer-generated password used by the Dell Server and client for recovery and other internal processes. No end user or Administrator interaction is required. All values are automatically maintained in the Dell Server and can never be deleted. Entering a value for this policy does not affect the Override Count.
		Any number
		This policy does not come into play when connected to the network (there is a connection to AD), because authentication with AD is attempted.
Non-Cached User Login Attempts Allowed	50	This policy only comes into play when the computer is not connected to the network and an unknown user attempts to log in (meaning, a user that has not logged in to the computer before no credentials have been cached).
		1-20 times
Cached User Login Attempts Allowed	10	Number of times that a cached user can attempt to log in.
		1-10 times
Self Help Question/Answer Attempts Allowed	3	Number of times the user can attempt to enter the correct answer.

Enable One Step Logon	Selected	This policy simplifies the logon process when multi-factor authentication is enabled at both preboot and Windows logon. If selected (or not configured), authentication is required at preboot only, and users are automatically logged on to Windows. If not selected, authentication may be required multiple times.
Number of Shutdown/Restart Delays Allowed	5	1-25 times Number of times that a user is allowed to snooze/delay a shutdown/restart before being forced to shutdown/restart. TPM requires a reboot. SED requires a shutdown.
Length of Each Shutdown/Restart Delay	300 seconds	300-30000 seconds Number of seconds between each time the user is asked to shutdown/reboot. TPM requires a reboot. SED requires a shutdown.
Length of Forced Shutdown/Restart Notice	60 seconds	60-1800 seconds When user has reached the maximum number of authorized shutdown/restart snoozes/delays, this policy sets the number of seconds allowed before forcing a shutdown/restart. TPM requires a reboot. SED requires a shutdown.
Allow PBA to Remember User Name	Selected	Selected Not Selected Enables or disables the ability for users to select Remember Me on the PBA login screen.
Crypto Erase Password	String 0-100 characters	String 0-512 characters A word of code of up to 100 characters used as a fail-safe security mechanism. Entering this word or code in the user name or password field during the PBA authentication deletes the authentication tokens for all users and locks the computer. Data is cryptographically erased from the Windows partition. Afterward, an administrator can unlock the computer by issuing an Unlock command. Leave this field blank if you do not want a crypto erase password available in case of emergency.
Enable Client Check for PBA Commands	Not Selected	Select this option to sync all users of this computer with the PBA database during PBA activation.
See <u>basic settings</u>		

Windows Authentication
This technology sets definitions around user login, specifically what is required to login (password, smart card, fingerprint), password recovery options, and password requirements (number of attempts allowed, password length).

In-session Authentication Policy for Administrators In-session Authentication Policy for Users	Windows Password and None Windows Password and None	The possible VALUES are: Windows Password None Fingerprints Contactless Card One-Time Password The possible VALUES are: Windows Password None Fingerprints Contactless Card One-Time Password
Recovery Questions for Windows Authentication	At least 3 selectable questions	Specify the questions that will be presented to Windows users during recovery questions setup. Separate each question by a carriage return. These questions will be used if the Windows password is forgotten. At least 3 questions must be specified. What is your mother's maiden name? What was the name of the first school you attended? What is the name of your first pet? What is your father's middle name? Who was your first employer? Who was your first teacher? What city were you born in? What city was your mother born in? What was the first concert you attended? Who is your favorite TV show character? What was the name of your first stuffed animal? What was the make of the first car you owned? Where did you spend your honeymoon? Where did you meet your spouse? What is your oldest cousin's name? What is your oldest niece's name? What is your oldest nephew's name? What is your oldest child's nickname? What was the last name of your third grade teacher? In what city or town did your mother and father meet? In what city or town was your first job?
Allow Recovery Questions	Not Selected	Selected Not Selected Set to Selected to allow users to use recovery questions/answers to log on to

		Windows.
		Errors Audit Details
		Level of detail in Windows Event Logs.
		Determines whether events such as fingerprint registration and authentication attempts are logged in the Windows Event Log.
Log Events Level	Audit	Each higher level includes all previous levels. Events are logged on the computer where they occur. Normally, the Auditing level provides sufficient detail, covering all logon, authentication, fingerprint management, and user management events. The Details levels can fill the log file very quickly. Status events provide information about the state of several important systems on the computer. They are logged on configurable intervals and generally used when events are remotely collected.
		The False Accept Rate is the probability of receiving a false acceptance decision when comparing fingerprints scanned from different fingers.
		You can select one of the following FAR values:
		* Medium (1 in 10,000)
		* Medium High (1 in 100,000)
		* High (1 in 1,000,000)
False Accept Rate of Fingerprint	Medium High - 1 in 100,000	For example: if you select Medium High, on average, one false acceptance will occur when a fingerprint is compared against one hundred thousand fingerprints scanned from different fingers.
		The higher the setting, the lower the chance of receiving a false acceptance. However, at the High setting, the system may reject legitimate fingerprints.
		NOTE: The FAR is set on a per verification basis. When matching a fingerprint against fingerprints of multiple users (identification), the internally used FAR is automatically adjusted to maintain the same effective FAR as was selected for a single match.
Minimum Number of Fingerprints to Enroll	2	The minimum number of fingerprints required to be enrolled.
Maximum Number of Fingerprints to Enroll	10	The maximum number of fingerprints required to be enrolled.
Allow Users to Enroll Credentials	Selected	Set to Selected to allow users to enroll their own credentials without administrator involvement.
Allow Users to Modify Credentials	Selected	Set to Selected to allow users to modify their own credentials that have been previously set up or enrolled.

Reminder to Enroll Credentials (Admin)	In one day	Values for reminders: Disable Reminder At Next Logon In One Day In One Week Every Two Hours
Reminder to Enroll Credentials Expiration Date (Admin)	Now	The date (time is always 12 am) when authentication policy is going into full effect. Meaning, the client stops asking the local admin to enroll credentials and forces them to enroll before they can logon. The default is "now".
Reminder to Enroll Credentials (User)	In one day	Values for reminders: Disable Reminder At Next Logon In One Day In One Week Every Two Hours
Reminder to Enroll Credentials Expiration Date (User)	Now	The date (time is always 12 am) when authentication policy is going into full effect. Meaning, the client stops asking the user to enroll credentials and forces them to enroll before they can logon. The default is "now".
Action Upon Smart Card Removal	Lock Workstation	No Action Lock Workstation Force Logoff Disconnect if on a Remote Desktop session The action that occurs when a smart card is removed from the computer.
Allow One-Time Password for Recovery	Not Selected	Selected Not Selected This policy is the "master policy" for all other One-time Password policies. If this policy is Not Selected, the One-time Passwords feature is disabled on the endpoint. The user will not be able to use OTP to unlock the account, regardless of other OTP policy values. If Selected, the One-time Password Recovery feature is enabled and allows the user to use a paired mobile device to generate passwords for one-time use to unlock their account, if the account password is lost.
One-Time Password Length	6	6, 8, or 10 characters Specifies the minimum One-time Password length.
Maximum One-Time Password Authentication Attempts	3	3-10 Number of times a One-time Password can be entered into a device.
Require Password for Mobile Apps	Selected	Set to Selected to require the One-time Password generation application to be password protected on the mobile device.
See <u>basic settings</u>		

Threat Prevention

Threat Prevention

Threat Prevention policies are available at the Enterprise, Endpoint Group, and Endpoint levels.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description	
Advanced Threat Prevention This technology is powered by Cylance and protects your operating system by detecting and preventing malware pre-execution. Advanced Threat Prevention uses artificial intelligence and predictive mathematical models to quickly and accurately identify what is safe and what is a threat.			
Advanced Threat Prevention	Off	On Off Toggle ON to enable Advanced Threat Prevention. If this policy is toggled to OFF, Advanced Threat Prevention is disabled, regardless of other policies.	
File Actions			
		Selected Not Selected	
Unsafe Executable Auto		If selected, Unsafe executable files are automatically quarantined or blocked to prevent their execution.	
Quarantine with Executable Control Enabled	Selected	Note: If you Auto Quarantine, it is highly recommended that before deployment, you test Auto Quarantine only on devices under a test policy in order to observe the behavior and ensure that no business-critical applications are blocked at execution.	
	Selected	Selected Not Selected	
Abnormal Executable Auto		If selected, Abnormal executable files are automatically quarantined or blocked to prevent their execution.	
Quarantine with Executable Control Enabled		Note: If you Auto Quarantine, it is highly recommended that before deployment, you test Auto Quarantine only on devices under a test policy in order to observe the behavior and ensure that no business-critical applications are blocked at execution.	
Memory Actions			
	Not Selected	Selected Not Selected	
		This policy must be selected to use all other Memory policies. If this policy is Not Selected, no Memory Action policies are enforced, regardless of other policy values.	
Memory Protection Enabled		NOTE: Before enabling Memory Protection, enable Compatibility Mode, to ensure applications function properly on the client computer. For instructions on how to enable Compatibility Mode, see Enable_Compatibility_Mode_for_Memory_Protection.htm .	
		Compatibility Mode does not apply to Mac clients.	
See <u>advanced settings</u>			
Policy	Default Setting	Description	

Threat Protection
This technology protects computers by identifying and taking action against threats of malware and

malicious activity involving files, folders, the registry, and processes.		
Threat Protection	Off	On Off Toggle to ON to enable Threat Protection. If toggled to OFF, no Threat Protection policies will be applied.
		Threat Protection includes Malware Protection, Web Protection, and Client Firewall.
		Block Only Report Only Block and Report
Action on Malicious Activity for		Prevents users from modifying or deleting Threat Protection system files and folders and sets the action to take upon attempt.
Files and Folders	Block and Report	Block Only: Blocks activity but does not report to the Server.
		Report Only: Reports activity to the Server but does not block activity.
		Block and Report (default): Blocks and reports activity to the Server.
	Block and Report	Block Only Report Only Block and Report
Action on Malicious Activity for		Prevents users from modifying or deleting Threat Protection registry keys and values and sets the action to take upon attempt.
Registry		Block Only: Blocks activity but does not report to the Server.
		Report Only: Reports activity to the Server but does not block activity.
		Block and Report (default): Blocks and reports activity to the Server.
	Selected	Selected Not Selected
		This policy is the "master policy" for all other Exploit Protection policies. If this policy is Not Selected, no Exploit Protection policies are enforced, regardless of other policy values.
Exploit Protection		A Selected value means that Exploit Protection is enabled.
		Exploit Protection monitors for application vulnerabilities and keeps buffer overflow exploits from executing arbitrary code on the computer.
		This policy must be set to Selected to enable Exploit Protection. If this policy is Not Selected, no Exploit Prevention policies will be applied.
On-Access Protection	Selected	Selected Not Selected
		This policy is the "master policy" for all other On-Access Protection policies. If this policy is Not Selected, no On-Access Protection policies are enforced, regardless of other policy values.
		A Selected value means that On-Access Protection is enabled.
		This policy must be set to Selected to enable On-Access Protection. If this policy is Not Selected, no On-Access Protection policies will be applied.

See <u>advanced settings</u>		
Policy	Default Setting	Description
that a user is browsing is o		based content ranking system to determine if a site hnology also grants the administrator the ability to (allow, block, warn).
Web Protection	Off	On Off Toggle to ON to enable Web Protection. If toggled to OFF, no Web Protection policies will be applied.
Enforcement - Action to Apply to Sites Not Verified	Allow	Block Allow Warn Specifies the default action to apply to sites that have not been verified. Block: Prevents users from accessing the site and displays a message that the site is blocked. Allow: Permits users to access the site. Warn: Displays a warning to notify users of potential dangers associated with the site. Users must dismiss the warning before continuing.
Enforcement - Enable File Scanning for File Downloads	Selected	Selected Not Selected A Selected value scans all files (including .zip files) before downloading. This option prevents users from accessing a downloaded file until Threat Protection marks the file as clean. Downloaded files are sent to Threat Protection for scanning. Threat Protection performs a Reputation Service lookup on the file. If a downloaded file is detected as a threat, Threat Protection takes action on the file and alerts the user.
Enable Secure Search	Not Selected	Selected Not Selected A Selected value enables Secure Search, automatically blocking malicious sites in search results based on safety rating.
Block Links to Risky Sites in Search Results	Not Selected	Selected Not Selected A Selected value prevents users from clicking links to risky sites in search results.
See <u>advanced settings</u>		
Policy	Default Setting	Description
	omputers by allowing administ n end user computers and the r	rators to determine which network traffic is network.
Client Firewall	Off	On Off Toggle to ON to enable Client Firewall. If toggled to OFF, no Client Firewall Settings or Rules will be applied. Client firewall is a stateful firewall.

See <u>advanced settings</u>		
Policy	Default Setting	Description
	ontrol over Threat Prevention settings and Web Protection and Client Firewall	such as display of threat event notifications logging.
Suppress Popup Notifications	Not Selected	Selected Not Selected If Selected, no popup notifications of Advanced Threat Prevention events display on the client computer.
Minimum Popup Notification Level	High	High Medium Low Severity level of events that result in popup notifications that display on the client computer. A setting of High allows only notifications of critical events to display. A setting of Low displays all on-screen notifications for all events. Listed below are individual examples of events that fall into the severity levels: High 1) Protection status has changed. (Protected means that the Advanced Threat Prevention service is running and protecting the computer and needs no user or administrator interaction.) 2) A threat is detected and policy is not set to automatically address the threat. Medium 1) Execution Control blocked a process from starting because it was detected as a threat. 2) A threat is detected that has an associated mitigation (for example, the threat was manually quarantined), so the process has been terminated. 3) A process was blocked or terminated due to a memory violation. 4) A memory violation was detected and no automatic mitigation policy is in effect for that violation type. Low 1) A file that was identified as a threat has been added to the Global Safe List or deleted from the file system. 2) A threat has been detected and automatically quarantined. 3) A file has been identified as a threat but waived on the computer. 4) The status of a current threat has changed (for example, Threat to Quarantined, Quarantined to Waived, or Waived to Quarantined).
Log Files Location	<system_drive>:\ProgramData\DDP\Suite\Logs</system_drive>	String - File path Specifies the location for the log files. The default location is <system_drive>:\ProgramData\DDP\Suite\Logs.</system_drive>
Enable Activity Logging	Selected	Selected Not Selected This policy is the "master policy" for all other Threat Protection logging policies. If this policy is Not Selected, no Threat Protection logging takes place, regardless of other policy values. A Selected value enables Threat Protection logging.
Debug Logging for Web Protection	Not Selected	Selected

		Not Selected
		A Selected value enables verbose logging of Web Protection activity.
Dobug Logging for Client		Selected
Debug Logging for Client Firewall	Not Selected	Not Selected
		A Selected value enables verbose logging of Firewall activity.

Advanced Threat Prevention

Threat Prevention policies are available at the Enterprise, Endpoint Group, and Endpoint levels.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description	
Advanced Threat Prevention This technology is powered by Cylance and protects your operating system by detecting and preventing malware pre-execution. Advanced Threat Prevention uses artificial intelligence and predictive mathematical models to quickly and accurately identify what is safe and what is a threat.			
Advanced Threat Prevention	Off	On Off Toggle ON to enable Advanced Threat Prevention. If this policy is toggled to OFF, Advanced Threat Prevention is disabled, regardless of other policies.	
File Actions			
Unsafe Executable Auto Quarantine With Executable Control Enabled	Selected	Selected Not Selected If selected, Unsafe executable files are automatically quarantined or blocked to prevent their execution. Note: If you Auto Quarantine, it is highly recommended that before deployment, you test Auto Quarantine only on devices under a test policy in order to observe the behavior and ensure that no business-critical applications are blocked at execution.	
Unsafe Executable Auto Upload Enabled	Selected	Selected Not Selected If selected, any detected Unsafe file is automatically uploaded for a deeper analysis and additional details about the file.	
Abnormal Executable Auto Quarantine With Executable Contro Enabled	Selected	Selected Not Selected If selected, Abnormal executable files are automatically quarantined or blocked to prevent their execution. Note: If you Auto Quarantine, it is highly recommended that before deployment, you test Auto Quarantine only on devices under a test policy in order to observe the behavior and ensure that no business-critical applications are blocked at execution.	

Abnormal Executable Auto Upload Enabled	Selected	Selected Not Selected If selected, any detected Abnormal file is automatically
opioad Enabled		uploaded for a deeper analysis and additional details about the file.
Allow Execution of Files in Exclude	Not Selected	Selected Not Selected
Folders		If selected, executable files are allowed to run, even if they are in folders excluded in the Exclude Specific Folders policy.
		Selected Not Selected
Auto Delete	Not Selected	If selected, after the time period specified in the Days until Deleted policy, files that are quarantined on an endpoint are automatically deleted.
Days until Deleted	14	14-365 days Number of days until files that are quarantined on an endpoint are automatically deleted.
Memory Actions		
		Selected Not Selected
Marana Danka akina	Not Selected	This policy must be selected to use all other Memory policies. If this policy is Not Selected, no Memory Action policies are enforced, regardless of other policy values.
Memory Protection Enabled		NOTE: Before enabling Memory Protection, enable Compatibility Mode, to ensure applications function properly on the client computer. For instructions on how to enable Compatibility Mode, see Enable Compatibility Mode for Memory Protection .
		Compatibility Mode does not apply to Mac clients.
Enable Evelude		Selected Not Selected
Enable Exclude executable files	Selected	Allow specific process files to be excluded from Memory Protection. This policy must be selected to use the Exclude executable files policy.
Exclude executable files	\text{Vindows\System32\CmgShieldService.exe} \text{Vindows\System32\EMSService.exe} Vindow	String Exclude specific process files from Memory Protection. This allows the specified files to run or be installed on any device on which this policy is enforced. All exclusions added must be specified using the relative path of that executable file (exclude the drive letter from the path). Correct (Windows): \Application\SubFolder\application.exe Correct (Mac): /Users/application.app/executable Incorrect: \Application\SubFolder\\ Incorrect: C:\Application\SubFolder\application.exe

\Program Files\McAfee\Endpoint Security\Endpoint Security Platform\PwdUninstall.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\RepairCache\CCUninst.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\RepairCache\McAfee Common x64.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\RepairCache\McAfee Common x64.msi \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\RepairCache\McAfee_Common_x86.msi \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\RepairCache\setupCC.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore ENS 10.1\Release\aacinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore ENS 10.1\Release\cacheinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\fwinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfecanary.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfefire.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfehidin.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfemms.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore ENS 10.1\Release\mfevtps.exe \Program Files\McAfee\Endpoint Security\Endpoint Platform\VSCore ENS 10.1\Release\mmsinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\vtpinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\aacinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\cacheinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\fwinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfecanary.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore ENS 10.1\x64\mfefire.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfehidin.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfemms.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfevtps.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mmsinfo.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\vtpinfo.exe \Program Files\McAfee\Endpoint Security\Firewall\FWInstCheck.exe \Program Files\McAfee\Endpoint Security\Firewall\FwWindowsFirewallHandler.exe \Program Files\McAfee\Endpoint Security\Firewall\mfefw.exe \Program Files\McAfee\Endpoint Security\Firewall\RepairCache\McAfee_Firewall_x64.msi \Program Files\McAfee\Endpoint Security\Firewall\RepairCache\McAfee Firewall x86.msi

\Program Files\McAfee\Endpoint Security\Firewall\RepairCache\setupFW.exe \Program Files\McAfee\Endpoint Security\Web Control\McChHost.exe \Program Files\McAfee\Endpoint Security\Web Control\mfewc.exe \Program Files\McAfee\Endpoint Security\Web Control\mfewch.exe \Program Files\McAfee\Endpoint Security\Web Control\mfewcui.exe \Program Files\McAfee\Endpoint Security\Web Control\RepairCache\McAfee_Web_Control_x86.msi \Program Files\McAfee\Endpoint Security\Web Control\RepairCache\setupWC.exe \Program Files\McAfee\marepomirror.exe \Program Files\McAfee\McScanCheck.exe \Program Files\McAfee\McScript InUse.exe \Program Files\McAfee\mctray_back.exe \Program Files\McAfee\Mue.exe \Program Files\McAfee\policyupgrade.exe \Program Files\McAfee\UpdaterUI.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\MaComServer.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\MFEConsole.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\mfeProvisionModeUtility.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\RepairCache\CCUninst.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\aacinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\cacheinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\fwinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfecanary.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfefire.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore ENS 10.1\Release\mfehidin.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfemms.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\Release\mfevtps.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Platform\VSCore_ENS_10.1\Release\mmsinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Platform\VSCore_ENS_10.1\Release\vtpinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\aacinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\cacheinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\fwinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfecanary.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfefire.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfehidin.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfemms.exe

\Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mfevtps.exe

	\Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\mmsinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Endpoint Security Platform\VSCore_ENS_10.1\x64\vtpinfo.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\McChHost.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\mfewc.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\mfewc.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\mfewch.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\mfewcui.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\RepairCache\McAfee_\Endpoint Security\Web Control\RepairCache\McAfee_\Endpoint Security\Web Control\RepairCache\McAfee\Endpoint Security\Web Control\RepairCache\setupWC.exe \Program Files (x86)\McAfee\Endpoint Security\Web Control\x64\mfewch.exe \Windows\System32\mfevtps.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\LogDebugSetter.exe \Program Files\McAfee\Endpoint Security\Endpoint Security Platform\LogDebugSetter.exe \Program Files\McAfee\Endpoint Security\MfeupgradeTool.exe	
Exploitation: Stack Pivot	Audit C	Ignore Alert Block Terminate Specify the action to take when a stack pivot threat is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. Stack Pivot - The stack for a thread has been replaced with a different stack. Generally the system will only allocate a single stack for a thread. An attacker would use a different stack to control execution in a way that is not blocked by Data Execution Prevention (DEP). The Stack Pivot exploitation affects Windows and macOS operating systems.
Exploitation: Stack Protect	Alert	Ignore Alert Block Terminate Specify the action to take when a stack protect threat is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. Stack Protect - The memory protection of a thread's stack has been modified to enable execution permission. Stack memory should not be executable, so usually this means that an attacker is preparing to run malicious code stored in stack

		memory as part of an exploit, an attempt which would
		otherwise be blocked by Data Execution Prevention (DEP).
		The Stack Protect exploitation affects Windows and macOS operating systems.
		Ignore
		Alert Block
		Terminate
		Specify the action to take when an overwrite code threat is detected.
		Ignore - No action is taken against identified memory violations.
Exploitation:		Alert - Record the violation and report the incident to the Dell Server.
Overwrite Code	Alert	Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Overwrite Code - Code residing in a process's memory has been modified using a technique that may indicate an attempt to bypass Data Execution Prevention (DEP).
		The Overwrite Code exploitation affects Windows operating systems. This policy does not apply to Mac clients.
		Ignore
		Alert Block Terminate
Exploitation: Scanner Memory Search		Specify the action to take when a scanner memory search threat is detected.
		Ignore - No action is taken against identified memory violations.
		Alert - Record the violation and report the incident to the Dell Server.
	Alert	Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Scanner Memory Search, or RAM Scraping - A process is trying to read valid magnetic stripe track data from another process. Typically related to point-of-sale systems (POS).
		The Scanner Memory Search exploitation affects Windows operating systems. This policy does not apply to Mac clients.

Exploitation: Malicious Payload	Alert	Ignore Alert Block Terminate Specify the action to take when a malicious payload is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. Malicious Payload - A generic shellcode and payload detection associated with exploitation has been detected. The Malicious Payload exploitation affects Windows operating systems. This policy does not apply to Mac clients.
Process Injection: Remote Allocation of Memory	Alert	Ignore Alert Block Terminate Specify the action to take when a remote memory allocation threat is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. Remote Allocation of Memory - A process has allocated memory in another process. Most allocations will only occur within the same process. This generally indicates an attempt to inject code or data into another process, which may be a first step in reinforcing a malicious presence on a system. The Remote Allocation of Memory process injection affects Windows and macOS operating systems.
Process Injection: Remote Mapping of Memory	Alert	Ignore Alert Block Terminate Specify the action to take when a remote attempt to map memory threat is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. Remote Mapping of Memory - A process has introduced code and/or data into another process. This may indicate an attempt to begin executing code in another process and

		thereby reinforce a malicious presence.
		The Remote Mapping of Memory process injection affects Windows and macOS operating systems.
		Ignore Alert Block Terminate Specify the action to take when a remote attempt to write to memory threat is detected.
		Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell
Process Injection: Remote Write to Memory	Alert	Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Remote Write to Memory - A process has modified memory in another process. This is usually an attempt to store code or data in previously allocated memory but it is possible that an attacker is trying to overwrite existing memory in order to divert execution for a malicious purpose.
		The Remote Write to Memory process injection affects Windows and macOS operating systems.
		Ignore Alert Block Terminate Specify the action to take when a remote attempt to write a portable executable to memory threat is detected.
Process Injection: Remote Write PE to Memory		Ignore - No action is taken against identified memory violations.
		Alert - Record the violation and report the incident to the Dell Server.
	Alert	Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Remote Write PE to Memory - A process has modified memory in another process to contain an executable image. Generally this indicates that an attacker is attempting to execute code without first writing that code to disk.
		The Remote Write PE to Memory process injection affects Windows operating systems. This policy does not apply to Macclients.

		Ignore Alert Block Terminate Specify the action to take when a remote overwrite code threat is detected. Ignore - No action is taken against identified memory violations.
		Alert - Record the violation and report the incident to the Dell Server.
Process Injection: Remote Overwrite Code	Alert	Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Remote Overwrite Code - A process has modified executable memory in another process. Under normal conditions executable memory will not be modified, especially by another process. This usually indicates an attempt to divert execution in another process.
		The Remote Overwrite Code process injection affects Windows operating systems. This policy does not apply to Mac clients.
		Ignore Alert Block Terminate
	Alert	Specify the action to take when a remote memory unmapping threat is detected.
		Ignore - No action is taken against identified memory violations.
		Alert - Record the violation and report the incident to the Dell Server.
Process Injection: Remote Unmap of Memory		Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Remote Unmap of Memory - A process has removed a Windows executable from the memory of another process. This may indicate an intent to replace the executable image with a modified copy for the purpose of diverting execution.
		The Remote Unmap of Memory process injection affects Windows operating systems. This policy does not apply to Mac clients.
Process Injection: Remote Thread Creation		Ignore Alert Block Terminate
		Specify the action to take when a remote thread creation threat is detected.
	Alert	Ignore - No action is taken against identified memory violations.
		Alert - Record the violation and report the incident to the Dell Server.
		Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the

		application that made the call.
		Remote Thread Creation - A process has created a new thread in another process. A process's threads are usually only created by that same process. This is generally used by an attacker to activate a malicious presence that has been injected into another process.
		The Remote Thread Creation process injection affects Windows and macOS operating systems.
		Ignore Alert Block Terminate Specify the action to take when a remote APC scheduled
		Ignore - No action is taken against identified memory violations.
Draces Injection.		Alert - Record the violation and report the incident to the Dell Server.
Process Injection: Remote APC Scheduled	Alert	Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		Remote APC Scheduled - A process has diverted the execution of another process's thread. This is generally used by an attacker to activate a malicious presence that has been injected into another process.
		The Remote APC Scheduled process injection affects Windows operating systems. This policy does not apply to Mac clients.
		Ignore Alert Block Terminate
		Specify the action to take when a remote DYLD injection threat is detected.
Process Injection: Remote DYLD Injection (Mac OS X only)		Ignore - No action is taken against identified memory violations.
		Alert - Record the violation and report the incident to the Dell Server.
	Alert	Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run.
		Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call.
		DYLD Injection - An environment variable has been set that will cause a shared library to be injected into a launched process. Attacks can modify the plist of applications like Safari or replace applications with bash scripts, that cause their modules to be loaded automatically when an application starts.
		The DYLD Injection process injection affects macOS operating systems. This policy does not apply to Windows clients.

Escalation: LSASS Read	Alert	Ignore Alert Block Terminate Specify the action to take when an LSASS read threat is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. LSASS Read - Memory belonging to the Windows Local Security Authority process has been accessed in a manner that
		indicates an attempt to obtain users' passwords. The LSASS Read escalation affects Windows operating systems. This policy does not apply to Mac clients.
Escalation: Zero Allocate	Alert	Ignore Alert Block Terminate Specify the action to take when a zero byte allocation threat is detected. Ignore - No action is taken against identified memory violations. Alert - Record the violation and report the incident to the Dell Server. Block - Block the process call if an application attempts to call a memory violation process. The application that made the call is allowed to continue to run. Terminate - Block the process call if an application attempts to call a memory violation process and terminate the application that made the call. Zero Allocate - A null page has been allocated. The memory region is typically reserved, but in certain circumstances it can be allocated. Attacks can use this to setup privilege escalation by taking advantage of some known null dereference exploit, typically in the kernel. The Zero Allocate escalation affects Windows and macOS operating systems.
Execution Control		
Prevent Service Shutdown from Device	Not Selected	Selected Not Selected If selected, the Advanced Threat Prevention service is protected from being shut down either manually or by another process.
Kill Unsafe Running Processes and Sub-Processes	Not Selected	Selected Not Selected If selected, processes and sub-processes are quarantined and terminated regardless of their state when a threat is detected (exe or dll). Although a process or sub-process is terminated, the command prompt window remains open. If a file has been determined to be Safe and allowed to run and then a threat model update occurs that results in the file being identified as unsafe, the process is automatically terminated. Dell recommends that you review threat model updates before Selecting this policy. For more information,

If set to Run Recurring or Run Once, a full-disk scan is run to detect and analyze any dormant threats on the disk. An update to the Threat Model triggers a full-disk scan. Selected Wot Selected If selected, any new or modified files are detected and analyzed for dormant threats. Dell recommends enabling this policy. However, If Auto Quarantine is enabled for all Unsafe or Abnormal files, all malliclous files will be blocked at execution. Therefore, it is not necessary to enable this policy with Auto Quarantine mode unless you prefer to quarantine a file as it is added to a disk but before execution. The default setting is 150 MB. Specify the maximum size of archive (compressed) files, including. Jar files to be scanned. Because scanning compressed files to an equative performance, Dell recommends Ouick-Scan - Scan Archives and Full-Scan - Scan Archives to be run during off-work hours. Selected Selected Not Selected Allow specific folders to be excluded from Auto Quarantine and Auto Upload. This policy must be Selected to use the Exclude Specific Folders policy. String Folders specific fider in this policy are excluded from actions performed based on Background Threat Detection and Watch for New Files, when these policies are enabled. This exclusion extends to subfolders of folders that are specified in this policy. All exclusions must be specified using the Absolute path of that executable file. Windows requires an absolute path (requires a drive letter) Mac requires an absolute path (requires a drive letter) Correct (Windows): C:\Program Files\Dell\) Correct (Windows): Incorrect: C:\Program Files\Dell\) Correct (Windows): Incorrect			see Threat Model Updates.
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Change only must be accounted an Mag based evolutions			
spaces only must be escaped on mac-based exclusions.			Spaces only must be escaped on Mac-based exclusions.
plication Control	Application Control		

		Selected Not Selected
		If Selected, specified devices are locked down, restricting any changes. Only applications that exist on a device before the lock-down are allowed to execute on that device. Any new applications, as well as changes to the executables of existing applications, are denied. The Advanced Threat Prevention agent updater is also disabled.
Application Control	Not Selected	Additionally, certain File Action, Memory Action, and Execution Control policies are automatically set. These policies may be changed after they are automatically set, without disabling Application Control. See Policies Set by Application Control for a list of policies that are automatically set when the Application Control policy is Selected.
		To exclude specific folders from lockdown, specify the folders in the Application Control Allowed Folders policy.
		IMPORTANT: Specify the following folder in the Application Control Allowed Folders policy when running Data Guardian Protected Office mode with this policy Selected: C:\Users\ <username>\AppData\Local\assembly\tmp</username>
		This policy does not apply to Mac clients.
Application		String Specify folders to be excluded from Application Control lockdown.
Control Allowed Folders	String	IMPORTANT: Specify the following folder in this policy when running Data Guardian Protected Office mode with the Application Control policy Selected: C:\Users\ <username>\AppData\Local\assembly\tmp</username>
		Selected Not Selected
Enable Change Window	Not Selected	If selected, Application Control is temporarily disabled to allow, edit, and run new applications or perform updates. This includes updating the Advanced Threat Prevention agent. After performing the necessary changes, deselect Enable Change Window.
		Note: Enable Change Window retains changes made to Application Control. Deselecting Application Control and resetting back to Selected resets Application Control to default values.
Script Control		This policy does not apply to Mac clients.
SCHIPT CONTROL		Selected
		Not Selected
Script Control	Not Selected	If Selected, Script Control protects devices by blocking malicious scripts from running.
		Note: Script Control is currently only available for PowerShell and Active Scripts.
		This policy does not apply to Mac clients.
		Alert
Script Control	Alore	Block Alert monitors scripts running in the environment.
Mode	Alert	Recommended for initial deployment. Block allows scripts to run only from specific folders. This should be used only after testing in Alert mode. This policy does not apply to Mac clients.
		Alert
Active Script	Alert	Alert monitors Active Scripts running in the environment.
	ALC: C	Recommended for initial deployment. Block allows Active Scripts to run only from specific folders. This should be used only after testing in Alert mode. This policy does not apply to Mac clients.

		Alert Block
		Alert monitors Office macros running in the environment. Recommended for initial deployment.
Macros	Alert	Block allows Office macros to run only from specific folders. This should be used only after testing in Alert mode.
		Note: Starting with Office 2013, macros are disabled by default. Most of the time, users should not be required to enable macros to view the content of an Office document. Dell recommends enabling macros only for documents from trusted users. Otherwise, macros should always be disabled. This policy does not apply to Mac clients.
		Alert
PowerSheII	Alert	Block Alert (default) - Monitors PowerShell scripts running in the environment. Recommended for initial deployment. Block - Allow PowerShell scripts to run only from specific folders. This should be used only after testing in Alert mode.
		This policy does not apply to Mac clients. Allow
		Block
PowerShell		Allow (default) - Allows the PowerShell v3 console to be launched. Block - Blocks the PowerShell v3 console from being launched. Provides additional security by protecting against the use of
Console	Allow	PowerShell one-liners.
		Note: If this policy is set to Block and you use a script that launches the PowerShell console, the script will fail. It is recommended that users change their scripts to invoke the PowerShell scripts, not the PowerShell console. This policy applies only to PowerShell v3 and does not apply
		to Mac clients.
		Selected Not Selected
Enable Approve Scripts in Folders (and Subfolders)	Not Selected	Allows scripts stored in specific folders to be automatically approved to run. This policy must be selected in order to use the policy, Script Control Approve Scripts in Folders (and Subfolders).
		This policy does not apply to Mac clients. String
		Folders specified in this policy are excluded from actions performed based on the Script Control policy. This exclusion extends to subfolders of folders that are specified with this policy.
Approve Scripts in Folders (and Subfolders)	String	A folder must be specified using its <u>relative</u> path. A path may not include the drive letter. Example: \Cases\ScriptsAllowed
		A specified path may represent any of the following:
		- local drive path
		- mapped network drive path
		- universal naming convention (UNC) path
		This policy does not apply to Mac clients.
Quarantine	String	String This policy is for Disconnected mode only, and allows for modification of the math model to ensure that pre-defined applications are handled in a specific way. This policy will
		force quarantine files based on a SHA256 hash of the specific portable executable.
		String
Waive	String	This policy is for Disconnected mode only, and allows for modification of the math model to ensure that pre-defined applications are handled in a specific way. This policy will force allow files based on a SHA256 hash of the specific

		portable executable.
Disconnected Mode		
Global Allow (available only in Disconnected	String	String This policy will NOT be sent to the client if the Server does not detect a Disconnected mode install token. The token is prefixed with *DELLAG*.
mode)		The value of this policy must include the entire contents of the policy.xml file. Copy and paste the contents of policy.xml into the policy editor and shown in this example .
		String
Quarantine List (available only in Disconnected	String	This policy will NOT be sent to the client if the Server does not detect a Disconnected mode install token. The token is prefixed with *DELLAG*.
mode)		The value of this policy includes a collection of hashes, represented by these_JSON examples.
		String
Safe List (available only in Disconnected	String	This policy will NOT be sent to the client if the Server does not detect a Disconnected mode install token. The token is prefixed with *DELLAG*.
mode)		The value of this policy includes a collection of hashes, represented by

		4) The status of a current threat has changed (for example, Threat to Quarantined, Quarantined to Waived, or Waived to Quarantined).
		Selected
		Not Selected If selected, BIOS integrity checks are performed on end user
Enable BIOS Assurance	Selected	computers to validate that the BIOS has not been modified from the Dell factory version. A custom factory image cannot be used with this feature, as the BIOS has been modified. This feature is available only on Dell platforms.
, issuitance		Platforms available with this feature include the newest release of select XPS, Latitude, Optiplex, Precision Workstations, and Venues. Speak to your Sales Associates for details or contact Dell ProSupport.
		This policy does not apply to Mac clients.
Enable Auto-	Not Selected	Selected Not Selected
upload of Log Files		If selected, log files are automatically uploaded at 12:00 am or when their size reaches 100 MB. If this policy is Not Selected, logs can still be manually uploaded.
See <u>basic settings</u>		
Policy	Default Setting	Description
	on protects computers by identifying and takir ity involving files, folders, the registry, and p	
		On
		Off Toggle to ON to enable Threat Protection. If toggled to OFF,
Threat Protection	Off	no Threat Protection policies will be applied. Threat Protection includes Malware Protection, Web
		Protection, and Client Firewall.

		Block Only Report Only Block and Report
Action on Malicious Activity		Prevents users from modifying or deleting Threat Protection system files and folders and sets the action to take upon attempt.
for Files and Folders	Block and Report	Block Only: Blocks activity but does not report to the Server.
Totacis		Report Only: Reports activity to the Server but does not block activity.
		Block and Report (default): Blocks and reports activity to the Server.
		Block Only Report Only Block and Report
Action on Malicious Activity	Block and Report	Prevents users from modifying or deleting Threat Protection registry keys and values and sets the action to take upon attempt.
for Registry	воск ана кероп	Block Only: Blocks activity but does not report to the Server.
		Report Only: Reports activity to the Server but does not block activity.
		Block and Report (default): Blocks and reports activity to the Server.
		Block Only Report Only Block and Report
Action on		Prevents users from stopping Threat Protection processes and sets the action to take upon attempt.
Malicious Activity for Processes	Block and Report	Block Only: Blocks activity but does not report to the Server.
		Report Only: Reports activity to the Server but does not block activity.
		Block and Report (default): Blocks and reports activity to the Server.
	String	String - Example: avtask.exe
Exclude Processes		Excludes specific process files from Threat Protection scans.
	-	Enter the exact resource name of a process to exclude.
Client Update		
		Selected Not Selected
Schedule	Selected	This policy is the "master policy" for all other Client Scheduling policies. If this policy is Not Selected, no Client Scheduling takes place, regardless of other policy values.
		A Selected value enables the Client Scheduling options.
		Daily Weekly
		Monthly The schedule configuration defines when the task should run. Schedule types are Daily, Weekly, and Monthly.
Schedule Repeats	Daily	Daily: Runs the task every day at the specified Schedule Start Time.
I I		Weekly: Runs the task weekly on the days specified in Day of
		the Week.
		the Week. Monthly: Runs the task monthly on the specified Day of the Month.
Schedule Start	String	Monthly: Runs the task monthly on the specified Day of the

Day of the Week	Wednesday	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday The day of the week the task should run.
Day of the Month	1	1-31 The day of the month the task should run. Example: 17.
Debug Logging for Malware and Exploit Protection	Not Selected	Selected Not Selected A Selected value enables debug logging of Malware and Exploit Protection activity.
Exploit Protection	Off	On Off Toggle to ON to enable Exploit Protection. If toggled to OFF, no Exploit Protection policies will be applied. Exploit Protection protects the critical operating system resources from changes made by malware or other unauthorized processes.
On-Access Protection	Off	On Off Toggle to ON to enable On-Access Protection. If toggled to OFF, no On-Access Protection policies will be applied. On-Access Protection protects the critical operating system resources from changes made by malware or other unauthorized processes at the time a resource is accessed.
Max Seconds for Scan	45	10 to 9999 Specifies the maximum number of seconds for each file scan. Limits each file scan to the specified number of seconds. If a scan exceeds the time limit, the scan stops and logs a message.
On-Access Scan		'
Scan Boot Sectors	Selected	Selected Not Selected Examines the disk boot sector. Consider disabling this policy if a disk contains a unique or abnormal boot sector that cannot be scanned.
Scan Processes on Enable	Not Selected	Selected Not Selected Rescans all processes that are currently in memory each time: - On-Access Scan is disabled and re-enabled The computer starts. When the on-access scanner is enabled, it always scans all processes when they are executed. Because some programs or executables start automatically when the computer starts, enabling this option can slow the computer and increase computer startup time.
Scan Trusted Installers	Not Selected	Selected Not Selected Scans MSI files or Windows Trusted Installer service files. Disable this option to improve the performance of large Microsoft application installers.
Scan When Copying Between Local Folders	Not Selected	Selected Not Selected Scans files whenever the user copies from one local folder to another. If disabled, only items in the destination folder are scanned. If enabled, items in both source and destination folders are scanned.

Disable Very Low Low Medium High Very High When enabled, samples are submitted to the lab to deter if they are malware. Sensitivity level configures the sensi level to use when determining if a detected sample is malware. The higher the sensitivity level, the higher the number of malware detections. However, allowing more detections might result in more false positive results. Risk levels: Very low - The detections and risk of false positives are it same as with regular content files. A detection is made available to Threat Protectice duser rights and a stre same as with regular content files. A detection is made available to Threat Protectice duser rights and a stre security footprint. This setting results in an average of 10 queries per day, per computer. Low - This setting results in an average of 10 queries per day, per computer. Medium - Use this level when the regular risk of exposure malware is greater than the risk of a false positive. The proprietary, heuristic checks result in detections that are likely to be malware. However, some detections might re in a false positive. The proprietary, heuristic checks result in detections that are likely to be malware. However, some detections might re in a false positive. This setting results in the proprietary system files do not re in a false positive. This setting is the minimum recommendation for laptops or desktops and servers. This setting results in an average of 20-25 queries per day, per computer. High - Use this setting for deployment to systems or area which are regularly infected. This setting results in an aver which are regularly infected. This setting results in an aver which are regularly infected. This setting results in an aver which are regularly infected. This setting results in an aver which are regularly infected. This setting results in an aver which are regularly infected. This setting results in an aver which are regularly infected. This setting results in an aver of 20-25 queries per day, per computer. Very high - Dell recommends usin	
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setting results in an average of 20-25 queries per day, per computer.	this tested g for is
Selected Not Selected	
This policy is the "master policy" for all other On-Demand Protection: Full Scan policies. If this policy is Not Selecte On-Demand Protection: Full Scan policies are enforced, regardless of other policy values.	ted, no
A Selected value means that On-Demand Protection: Full is enabled.	ıll Scan
On-Demand Protection - Full Scan Scan This policy must be set to Selected to enable On-Demand Protection: Full Scan settings. If this policy is Not Selected On-Demand Protection: Full Scan policies will be applied.	cted, no
By default, every time Full Scan runs, it scans the followi locations for threats:	wing
- the computer memory for installed rootkits, hidden processes, and other behavior that suggests malware is attempting to hide itself. This scan occurs before all othe scans.	
- the memory of all running processes.	
- all drives and their subfolders on the computer.	

		By default, the scanner scans all file types, regardless of extension.
Full Scan		
Boot Sectors	Selected	Selected Not Selected Examines the disk boot sector. Consider disabling this policy if a disk contains a unique or abnormal boot sector that cannot be scanned.
Unwanted Programs	Selected	Selected Not Selected Enables the scanner to detect potentially unwanted programs. The scanner uses configured information to detect potentially unwanted programs.
Decode MIME Files	Not Selected	Selected Not Selected Detects, decodes, and scans Multipurpose Internet Mail Extensions (MIME) encoded files.
Scan Archives	Selected	Selected Not Selected Examines the contents of archive (compressed) files, including .jar files. Because scanning compressed files can negatively affect computer performance, Dell recommends using this option in scans during off-work hours.
Files Migrated to Storage	Not Selected	Selected Not Selected Scans files that remote storage manages. When the scanner encounters a file with migrated content, it restores the file to the local computer before scanning.
Program Threats	Selected	Selected Not Selected Detects executable files that have code that resembles malware.
Macro Threats	Selected	Selected Not Selected Detects unknown macro viruses.
Scan Subfolders	Selected	Selected Not Selected Examines all subfolders of the specified folder.

		Disable Very Low Low Medium High Very High
		When enabled, samples are submitted to the lab to determine if they are malware. Sensitivity level configures the sensitivity level to use when determining if a detected sample is malware.
		The higher the sensitivity level, the higher the number of malware detections. However, allowing more detections might result in more false positive results.
		Risk levels:
		Very low - The detections and risk of false positives are the same as with regular content files. A detection is made available to Threat Protection when the lab publishes it instead of waiting for the next content file update. Use this setting for desktops and servers with restricted user rights and a strong security footprint. This setting results in an average of 10-15 queries per day, per computer.
Reputation Service Sensitivity	Medium	Low - This setting is the minimum recommendation for laptops or desktops and servers with a strong security footprint. This setting results in an average of 10-15 queries per day, per computer.
		Medium - Use this level when the regular risk of exposure to malware is greater than the risk of a false positive. The proprietary, heuristic checks result in detections that are likely to be malware. However, some detections might result in a false positive. With this setting, the lab checks that popular applications and operating system files do not result in a false positive. This setting is the minimum recommendation for laptops or desktops and servers. This setting results in an average of 20-25 queries per day, per computer.
		High - Use this setting for deployment to systems or areas which are regularly infected. This setting results in an average of 20-25 queries per day, per computer.
		Very high - Dell recommends using this level only for scanning volumes and directories that do not support executing programs or operating systems. Detections found with this level are presumed malicious, but have not been fully tested to determine if they are false positives. Use this setting for on-demand scans on non-operating system volumes. This setting results in an average of 20-25 queries per day, per computer.

		String - Comma-separated list of parameters
		Specify files, folders, and drives to exclude from scanning.
		Comma separated list of parameters:
		<exclusiontype>,<exclusiondata>,<excludesubfolders (only="" applies="" fileorfolder="" to="" type)=""></excludesubfolders></exclusiondata></exclusiontype>
		Possible values: <fileorfolder filetype modifiedage AccessedAge CreatedAge>,<pathtofileorfolder FileType Age>,<true false></true false></pathtofileorfolder </fileorfolder filetype modifiedage
Exclusions	String	Examples:
		FileOrFolder,C:\Users,false
		FileType,xml,false
		FileType,mp?,false
		ModifiedAge,120,true
		AccessedAge,150,false
		CreatedAge,300,true
		Clean file Delete file
	Clean file	Continue scanning
		Specifies the first action for the scanner to take when a threat is detected.
Threat First Response		Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.
		Clean file Delete file Continue scanning
		Specifies the action for the scanner to take when a threat is
Threat First	D. I. J. 611	detected if the first action fails.
Response Fails	Delete file	Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.
		Clean file Delete file Continue scanning
		Specifies the first action for the scanner to take when a potentially unwanted program is detected.
Exploit First Response	Clean file	Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.

Delete file Continue scanning Specifies the action for the scanner to take when an unwanted program is detected if the first action falls Clean files - Removes the threat from the detected file, if possible Delete files Delete files - Deletes files with potential threats. Continues scanning files when a threat is detected. The scanner does not move items to the quarantine. Selected Not Sele			Clean file
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The schedule configuration defines when the task should run. Schedule types are Daily, Weekly, and Monthly. Daily: Runs the task every day at the specified Full-Scan Schedule Start Time. Weekly: Runs the task weekly on the days specified in Full-Scan Schedule Day of the Week. Monthly: Runs the task monthly on the specified Full-Scan Schedule Day of the Month. String - format is [HH:mm tt]. Example: 11:59 PM The time the task should run. Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday The day of the week the task should run. 1-31 The day of the month the task should run.			Weekly
Schedule Start Time. Weekly: Runs the task weekly on the days specified in Full-Scan Schedule Day of the Week. Monthly: Runs the task monthly on the specified Full-Scan Schedule Day of the Month. String - format is [HH:mm tt]. Example: 11:59 PM The time the task should run. Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday The day of the week the task should run. 1-31 The day of the month the task should run.			The schedule configuration defines when the task should run.
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Wednesday Saturday The day of the week the task should run. 1-31 The day of the month the task should run.	Time	String	The time the task should run.
1-31 The day of the month the task should run.	Day of the Week	Wednesday	Saturday
The day of the month the task should run.			,
ay of the worth		1	
	Day of the Month	1	
uick Scan	Quick Scan		

		Selected Not Selected
		This policy is the "master policy" for all other On-Demand Protection: Quick Scan policies. If this policy is Not Selected, no On-Demand Protection: Quick Scan policies are enforced, regardless of other policy values.
		A Selected value means that On-Demand Protection: Quick Scan is enabled.
On-Demand Protection - Quick	Selected	This policy must be set to Selected to enable On-Demand Protection: Quick Scan settings. If this policy is Not Selected, no On-Demand Protection: Quick Scan policies will be applied.
Scan		By default, every time Quick Scan runs, it scans the following locations for threats:
		- the memory of all running processes
		- the files that the Windows Registry references
		- the contents of the Windows folder
		- the contents of the Temp folder
		By default, the scanner scans all file types, regardless of extension.
		Selected Not Selected
Boot Sectors	Selected	Examines the disk boot sector. Consider disabling this policy if a disk contains a unique or abnormal boot sector that cannot be scanned.
	Selected	Selected Not Selected
Unwanted Programs		Enables the scanner to detect potentially unwanted programs. The scanner uses configured information to detect potentially unwanted programs.
	Net Calastad	Selected Not Selected
Decode MIME Files	Not Selected	Detects, decodes, and scans Multipurpose Internet Mail Extensions (MIME) encoded files.
		Selected Not Selected
Scan Archives	Selected	Examines the contents of archive (compressed) files, including .jar files. Because scanning compressed files can negatively affect computer performance, Dell recommends using this option in scans during off-work hours.
	Not Selected	Selected Not Selected
Files Migrated to Storage		Scans files that remote storage manages. When the scanner encounters a file with migrated content, it restores the file to the local computer before scanning.
	Selected	Selected Not Selected
Program Threats		Detects executable files that have code that resembles malware.
	Selected	Selected Not Selected
Macro Threats		Detects unknown macro viruses.
Scan Subfolders	Selected	Selected Not Selected
		Examines all subfolders of the specified folder.

		Disable Very Low Low Medium High Very High
		When enabled, samples are submitted to the lab to determine if they are malware. Sensitivity level configures the sensitivity level to use when determining if a detected sample is malware.
		The higher the sensitivity level, the higher the number of malware detections. However, allowing more detections might result in more false positive results.
		Risk levels:
		Very low - The detections and risk of false positives are the same as with regular content files. A detection is made available to Threat Protection when the lab publishes it instead of waiting for the next content file update. Use this setting for desktops and servers with restricted user rights and a strong security footprint. This setting results in an average of 10-15 queries per day, per computer.
Reputation Service Sensitivity	Medium	Low - This setting is the minimum recommendation for laptops or desktops and servers with a strong security footprint. This setting results in an average of 10-15 queries per day, per computer.
		Medium - Use this level when the regular risk of exposure to malware is greater than the risk of a false positive. The proprietary, heuristic checks result in detections that are likely to be malware. However, some detections might result in a false positive. With this setting, the lab checks that popular applications and operating system files do not result in a false positive. This setting is the minimum recommendation for laptops or desktops and servers. This setting results in an average of 20-25 queries per day, per computer.
		High - Use this setting for deployment to systems or areas which are regularly infected. This setting results in an average of 20-25 queries per day, per computer.
		Very high - Dell recommends using this level only for scanning volumes and directories that do not support executing programs or operating systems. Detections found with this level are presumed malicious, but have not been fully tested to determine if they are false positives. Use this setting for on-demand scans on non-operating system volumes. This setting results in an average of 20-25 queries per day, per computer.

		String - Comma-separated list of parameters
		Specify files, folders, and drives to exclude from scanning.
		Comma separated list of parameters:
		<exclusiontype>,<exclusiondata>,<excludesubfolders (only="" applies="" fileorfolder="" to="" type)=""></excludesubfolders></exclusiondata></exclusiontype>
		Possible values: <fileorfolder filetype modifiedage AccessedAge CreatedAge>,<pathtofileorfolder FileType Age>,<true false></true false></pathtofileorfolder </fileorfolder filetype modifiedage
Exclusions	String	Examples:
		FileOrFolder,C:\Users,false
		FileType,xml,false
		FileType,mp?,false
		ModifiedAge,120,true
		AccessedAge,150,false
		CreatedAge,300,true
		Clean file Delete file
	Clean file	Continue scanning
		Specifies the first action for the scanner to take when a threat is detected.
Threat First Response		Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.
		Clean file Delete file Continue scanning
		Specifies the action for the scanner to take when a threat is detected if the first action fails.
Threat First Response Fails	Delete file	Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.
		Clean file Delete file Continue scanning
		Specifies the first action for the scanner to take when a potential exploit is detected.
Exploit First Response	Clean file	Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.

		a. su
		Clean file Delete file Continue scanning
		Specifies the action for the scanner to take when an exploit is detected if the first action fails.
Exploit First Response Fails	Delete file	Clean files - Removes the threat from the detected file, if possible.
		Delete files - Deletes files with potential threats.
		Continue scanning - Continues scanning files when a threat is detected. The scanner does not move items to the quarantine.
		Selected Not Selected
Use Scan Cache	Selected	A Selected value enables the scanner to use the existing clean scan results. A Selected value reduces duplicate scanning and improves performance.
		Low Priority Below Normal Normal
		Enables the operating system to specify the amount of CPU time that the scanner receives during the scan. Each task runs independently, unaware of the limits for other tasks.
System Utilization	Below Normal	Low Priority - Provides improved performance for other running applications. Select this option for computers with end user activity.
		Below Normal - Sets the computer utilization for the scan to the default.
		Normal - Enables the scan to complete faster. Select this option for computers that have large volumes and little end user activity.
		Selected Not Selected
Scan on Battery Power	Not Selected	A Selected value allows the scan when the computer is using battery power. Not Selected postpones the scan until the computer is no longer using battery power.
		Daily Weekly
		Monthly The schedule configuration defines when the task should run. Schedule types are Daily, Weekly, and Monthly.
Schedule Repeats	Daily	Daily: Runs the task every day at the specified Quick-Scan Schedule Start Time.
		Weekly: Runs the task weekly on the days specified in Quick-Scan Schedule Day of the Week.
		Monthly: Runs the task monthly on the specified Quick-Scan Schedule Day of the Month.
Schedule Start	0	String - format is [HH:mm tt]. Example: 11:59 PM
Time	String	The time the task should run.
Day of the Week	Wednesday	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday
		The day of the week the task should run.
		1-31
Day of the Month	1	The day of the month the task should run.
		Example: 17.

Access Protection	Selected	Selected Not Selected Access Protection prevents other computers from making a connection and creating or altering autorun (autorun.inf) files from CDs. The rule prevents spyware and adware distributed on CDs from being executed and will automatically block and report the issue.
Script Scan Protection	Selected	Selected Not Selected This policy enables scanning JavaScript and VBScript scripts to prevent unwanted scripts from executing. Note: If Script Scan Protection is disabled when Internet Explorer is launched, and then is enabled, it doesn't detect malicious scripts in that instance of Internet Explorer.
Source Sites for Update	Hyperlink	To modify the source sites your clients access for Malware Protection signature updates, click the Source Sites for Updates link. To modify the priority level or availability of an external source site, click either NAIHttp or NAIFtp, edit the necessary fields, and click OK. To designate an internal signature update server, see Designate a Threat Protection Signature Update Server. Designating a signature update server within your network allows client computers to obtain signature updates without accessing the Internet.
See <u>basic settings</u>		
Policy	Default Setting	Description

Web Protection

This technology protects computers by leveraging a web-based content ranking system to determine if a site that a user is browsing is considered safe or not. This technology also grants the administrator the ability to define what happens when an unsafe site is navigated to (allow, block, warn).

Web Protection	Off	On Off Toggle to ON to enable Web Protection. If toggled to OFF, no Web Protection policies will be applied.
		Block Allow Warn
Enforcement		Specifies the default action to apply to sites that have not been verified.
Enforcement - Action to Apply to Sites Not Verified	Allow	Block: Prevents users from accessing the site and displays a message that the site is blocked.
		Allow: Permits users to access the site.
		Warn: Displays a warning to notify users of potential dangers associated with the site. Users must dismiss the warning before continuing.
Enforcement - Enable File Scanning for File Downloads	Selected	Selected Not Selected
		A Selected value scans all files (including .zip files) before downloading. This option prevents users from accessing a downloaded file until Threat Protection marks the file as clean.
		Downloaded files are sent to Threat Protection for scanning. Threat Protection performs a Reputation Service lookup on the file. If a downloaded file is detected as a threat, Threat Protection takes action on the file and alerts the user.
		NOTE: This policy does not apply when Web Protection is installed as an optional feature with Advanced Threat

		Prevention.
Enforcement - Enable HTML iFrames Support	Selected	Selected Not Selected A Selected value blocks access to malicious (Red) and warn (Yellow) sites that appear in an HTML iframe.
Enforcement - Block Sites by Default if Reputation Service Server is not Reachable	Not Selected	Selected Not Selected A Selected value blocks access to websites if Web Control cannot reach the Reputation Service server.
Enforcement - Block Phishing Pages for All Sites	Selected	Selected Not Selected A Selected value blocks all phishing pages, overriding content rating actions.
Enforcement - Specify Reputation Service Risk Level to Block	Very High	Disable Very Low Low Medium High Very High Specifies the Reputation Service risk level to block when the Threat Protection on-demand scan feature is not installed and enabled. Web Protection uses the risk level to calculate the score when retrieving the checksum reputation from the Reputation Service.
IP Exclusions for Web Protection	String	String - IP or IP Range Configures Web Protection not to rate or act on the specified private IP address range. The format is the IP address or IP address range.
Enable Secure Search	Not Selected	Selected Not Selected A Selected value enables Secure Search, automatically blocking malicious sites in search results based on safety rating.
Set Default Search Engine	Google	Google Yahoo Bing Ask Specifies the default search engine to use for supported browsers: Google, Yahoo, Bing, Ask.
Block Links to Risky Sites in Search Results	Not Selected	Selected Not Selected A Selected value prevents users from clicking links to risky sites in search results.

		Block Allow Warn
		Specifies the action to apply to sites that are rated Red.
Rating Action for Red Sites	Block	Block: Prevents users from accessing the site and displays a message that the site is blocked. Block is the default for Red sites.
		Allow: Permits users to access the site.
		Warn: Displays a warning to notify users of potential dangers associated with the site. Users must dismiss the warning before canceling or proceeding to the site.
		Green-rated sites and downloads are automatically allowed.
		Block Allow Warn
		Specifies the action to apply to sites that are rated Yellow.
Rating Action for	Warn	Block: Prevents users from accessing the site and displays a message that the site is blocked.
Yellow Sites	warn	Allow: Permits users to access the site.
		Warn: Displays a warning to notify users of potential dangers associated with the site. Users must dismiss the warning before canceling or proceeding to the site. Warn is the default for Yellow sites.
		Green-rated sites and downloads are automatically allowed.
	Allow	Block Allow Warn
		Specifies the action to apply to sites that are Unrated.
Rating Action for		Block: Prevents users from accessing the site and displays a message that the site is blocked.
Unrated Sites		Allow: Permits users to access the site. Allow is the default for Unrated sites.
		Warn: Displays a warning to notify users of potential dangers associated with the site. Users must dismiss the warning before canceling or proceeding to the site.
		Green-rated sites and downloads are automatically allowed.
		Block Allow Warn
		Specifies the action to apply to file downloads that are rated
		Red.
Rating Action for Red Downloads	Block	Block: Prevents users from downloading the file and displays a message that the download is blocked. Block is the default for Red downloads.
		Allow: Permits users to proceed with the download.
		Warn: Displays a warning to notify users of potential dangers associated with the download file. Users must dismiss the warning before ending or proceeding with the download.
		Block Allow Warn
		Specifies the action to apply to file downloads that are rated Yellow.
Rating Action for Yellow Downloads	Warn	Block: Prevents users from downloading the file and displays a message that the download is blocked.
		Allow: Permits users to proceed with the download.
		Warn: Displays a warning to notify users of potential dangers associated with the download file. Users must dismiss the warning before ending or proceeding with the download. Warn

		is the default for Yellow sites.
		Block Allow Warn
		Specifies the action to apply to file downloads that are Unrated.
Rating Action for Unrated Downloads	Allow	Block: Prevents users from downloading the file and displays a message that the download is blocked.
Downloads		Allow: Permits users to proceed with the download. Allow is the default for Unrated downloads.
		Warn: Displays a warning to notify users of potential dangers associated with the download file. Users must dismiss the warning before ending or proceeding with the download.
Web Event Logging		
Log Web Control		Selected Not Selected
iFrame Events	Not Selected	When this policy is selected, blocked Red (malicious) and Yellow (warn) sites that display in an HTML iFrame are logged.
Log Web	Not Selected	Selected Not Selected
Categories Green Rated Sites		When this policy is selected, content categories are logged for all green-rated sites. Selecting this policy may affect Server performance.
		Selected Not Selected
		When this policy is selected, web sites can be blocked based on category.
		Web Categories that can be blocked
		When this policy is selected, the following categories can be blocked. Check the box next to a category to block that category. Categories indicated with * are selected and blocked by default when this policy is selected.
		Art/Culture/Heritage
		Alcohol
Enable Web		Anonymizers
Category Blocking	Not Selected	Anonymizing Utilities
		Business
		Chat
		Public Information
		Potential Criminal Activities
		Drugs Education / Deference
		Education/Reference
		Entertainment
		Extreme Finance/Banking
		Gambling
		Cambring

Games Government/Military Potential Hacking/Computer Crime* Health Humor/Comics Discrimination Instant Messaging Stock Trading Internet Radio/TV Job Search Information Security Dating/Social Networking Mobile Phone Media Downloads Malicious Sites* Usenet News Nudity Non-Profit/Advocacy/NGO General News Online Shopping Provocative Attire P2P/File Sharing Politics/Opinion Personal Pages Portal Sites Remote Access Religion/Ideology Resource Sharing Search Engines Sports Streaming Media Shareware/Freeware Pornography* Spyware/Adware/Keyloggers* Tobacco Travel Violence Web Ads Weapons Web Mail Web Phone Auctions/Classifieds Forum/Bulletin Boards Profanity School Cheating Information Sexual Materials Gruesome Content Visual Search Engine Technical/Business Forums Gambling Related

olicy	Default Setting	Description
ee <u>basic sett</u>	tings	
		Potentially Unwanted Programs
		Malicious Downloads*
		Major Global Religions
		IIIegal UK
		Consumer Protection
		Browser Exploits*
		Residential IP Addresses
		Controversial Opinions
		Text/Spoken Only
		Moderated
		History
		For Kids
		Web Meetings
		Text Translators
		Social Networking
		Professional Networking
		Motor Vehicles
		Dating/Personals
		Technical Information
		Historical Revisionism
		Digital Postcards
		Blogs/Wiki
		Recreation/Hobbies
		Real Estate
		Restaurants
		Pharmacy
		Parked Domain
		Incidental Nudity Marketing/Merchandising
		Media Sharing
		Internet Services
		Content Server
		Potential Illegal Software
		Software/Hardware
		Fashion/Beauty
		Interactive Web
		Spam URLs
		Personal Network Storage
		Phishing*
		Game/Cartoon Violence

Security Management Server Virtual - AdminHelp v9.10

	On Off
Client Firewall	Toggle to ON to enable Client Firewall. If toggled to OFF, no Client Firewall Settings or Rules will be applied.
	Client firewall is a stateful firewall.
Settings and Rules	See <u>Client Firewall Settings and Rules</u> .
See <u>basic settings</u>	

Client Firewall Settings and Rules

In the Client Firewall policy, Settings and Rules, click View/Edit.

In the Settings window, you can set <u>Client Firewall Options</u> and <u>Client Firewall Rules</u>.

Return to Client Firewall Policies

Client Firewall Options

Setting	UI Control	Description	
Protection Options			
Allow traffic for unsupported protocols	Check box	Allows all traffic that uses unsupported protocols. When disabled, all traffic using unsupported protocols is blocked.	
Allow only outgoing traffic until firewall services have started	Check box	Allows outgoing traffic but no incoming traffic until the Firewall service starts. If this option disabled, Firewall allows all traffic before services are started.	
Allow bridged traffic	Check box	Allows traffic with a local MAC address. The MAC address is an address in the list of VMs that Firewall supports, not the local system's MAC address. Use this option to allow traffic through a bridged environment with virtual machines.	
Enable IP spoof protection	Check box	Blocks network traffic from non-local host IP addresses or from local processes that attempt to spoof their IP address.	
Enable firewall intrusion alerts	Check box	Displays alerts automatically when Firewall detects a potential attack.	
Setting	UI Control	Description	
Tuning Options			
Enable Adaptive mode	Check box	Creates rules automatically to allow traffic. NOTE: Enable this option <u>temporarily</u> while tuning a deployment.	
Log all blocked traffic to client activity log	Check box	Enabled by default Logs all blocked traffic to the Firewall event log (FirewallEventMonitor.log) on the Endpoint Security Client.	

Log all allowed traffic to client activity log	Check box	Disabled by default Logs all allowed traffic to the Firewall event log (FirewallEventMonitor.log) on the Endpoint Security Client. NOTE: Enabling this option might negatively impact performance.
Setting	UI Control	Description
Network Reputation		
		High Risk Unverified Do not block Medium Risk
		Specifies the rating threshold for blocking incoming or outgoing traffic from a network connection.
		High Risk - This source/destination sends or hosts potentially malicious content/traffic that is considered risky.
Incoming network - reputation threshold	Drop-down menu	Unverified - This site appears to be a legitimate source or destination of content/traffic, but also displays properties suggesting that further inspection is necessary.
		Do not block - This site is a legitimate source or destination of content/traffic.
		Medium Risk - This source/destination shows behavior that is considered suspicious. Any content/traffic from the site requires special scrutiny.
		High Risk Unverified Do not block Medium Risk
		Specifies the rating threshold for blocking incoming or outgoing traffic from a network connection.
		High Risk - This source/destination sends or hosts potentially malicious content/traffic that is considered risky.
Outgoing network - reputation threshold	Drop-down menu	Unverified - This site appears to be a legitimate source or destination of content/traffic, but also displays properties suggesting that further inspection is necessary.
		Do not block - This site is a legitimate source or destination of content/traffic.
		Medium Risk - This source/destination shows behavior that is considered suspicious. Any content/traffic from the site requires special scrutiny.
Setting	UI Control	Description
Stateful Firewall		
Number of seconds (1-240) before TCP connections time out	Up/down number selector	Specifies the time, in seconds, that an unestablished TCP connection remains active if no more packets matching the connection are sent or received. The default number is

		60; the valid range is 1-240.
Number of seconds (1-300) before UDP and ICMP echo virtual connections time out	Up/down number selector	Specifies the time, in seconds, that a UDP or ICMP Echo virtual connection remains active if no more packets matching the connection are sent or received. This option resets to its configured value every time a packet that matches the virtual connection is sent or received. The default number is 60; the valid range is 1-300.
Setting	UI Control	Description
DNS Blocking		
		Defines domain names to block.
		When applied, this setting adds a rule near the top of the firewall rules that blocks connections to the IP addresses resolving to the domain names.
Domain name	Button/text input field	Add - To add a domain name to block, click Add, then enter a domain name. You can use the * and ? wildcards. For example, *domain.com. Separate multiple domains with a comma (,) or a carriage return.
		Duplicate entries are automatically removed.
		Delete - To remove a domain name from the blocked list, select the domain name and click Delete .

Return to top

Client Firewall Rules

Client Firewall applies the rule at the top of the firewall rules list.

- 1. Client Firewall applies the rule at the top of the firewall rules list. If the traffic meets this rule's conditions, Client Firewall allows or blocks the traffic. It doesn't try to apply any other rules in the list.
- 2. If the traffic doesn't meet the first rule's conditions, Client Firewall continues to the next rule in the list until it finds a rule that the traffic matches.
- 3. If no rule matches, the firewall automatically blocks the traffic.

To modify Core Networking or Default Rules, expand either Core Networking Rules or Default Rules, select the rule to modify, and edit the desired settings, and click OK. The settings are described in the table below.

Alternatively, click one of the following buttons to perform the desired action:

Add Rule - Adds a firewall rule.

Duplicate - Creates a copy of the selected item.

Delete - Removes a selected firewall item.

Setting	UI Control	Description

Description		
Name	Text input field	Specifies the descriptive name of the item.
Status	Check box	Select Enable rule to make the rule active.
		Allow Block Treat match as intrusion Log matching traffic
		Allow - Allows traffic through the firewall if the item is matched.
Actions	Radio button/Check box	Block - Stops traffic from passing through the firewall if the item is matched.
		Treat match as intrusion - Treats traffic that matches the rule as an attack and generates an event that is sent to the Reputation Service. The <i>Block</i> action for the rule must be selected for an event to be generated.
		Log matching traffic - Preserves a record of matching traffic in the Firewall activity log on the Endpoint Security Client.
		In Out Either
Direction	Drop-down menu	In - Monitors incoming traffic.
		Out - Monitors outgoing traffic.
		Either - Monitors both incoming and outgoing traffic.
Notes	Text input field	Provides more information about the rule.
Setting	UI Control	Description
Networks		
		Any protocol IP protocol Non-IP protocol
	Dadia Dathar (Charlahar)	Any protocol - Allows both IP and non-IP protocols.
Network protocol	Radio Button/Check box	IP protocol - Excludes non-IP protocols. IPv4 protocol or IPv6 protocol. If neither check box is selected, any IP protocol applies. Both
		IPv4 and IPv6 can be selected.
		Non-IP protocol - Includes non-IP protocols only.
		Wired Wireless Virtual
Connection types	Check box	Indicates if one or all connection types apply.
		A Virtual connection type is an adapter presented by a VPN or a virtual machine application, such as VMware, rather than a physical adapter.

Specify Networks	Button/Drop-down menu/text input field	To add a network, click Add, then specify the following: Name - Specifies the network address name (required). Type - Select either Local Network or Remote Network. Click Add, then specify the following: Network type - Specifies the origin or destination of traffic. Select from the network types Single IP, Subnet, Local subnet, Range, or Fully qualified domain name IP address - Specifies the IP address to add to the network. Wildcards are valid.
Transport		
Transport protocol	Drop-down menu	Select the transport protocol from the drop-down menu.
Executables		
Name	String	The name that you use for the executable to add or edit.
File path	String	The file path to the executable.
File description	String	Description of the executable.

Fingerprint	String	The MD5 hash of the process.
Enable digital signature check	Check box	Enables or disables the digital signature check that guarantees code hasn't been altered or corrupted since it was signed with a cryptographic hash. If enabled, specify: Allow any signature — Allows files signed by any process signer. Signed by — Allows only files signed by the specified process signer.

Return to top

Return to Client Firewall Policies

Policies Set by Application Control

The following policies are set when Advanced Threat Prevention > Application Control is selected.

Policy	Setting When Application Control policy is Selected
Unsafe Executable Auto Quarantine With Executable Control Enabled	Selected
Abnormal Executable Auto Quarantine With Executable Control Enabled	Selected
Memory Protection Enabled	Selected
Exploitation: Stack Pivot	Terminate
Exploitation: Stack Protect	Terminate
Exploitation: Overwrite Code	Terminate
Exploitation: Scanner Memory Search	Terminate
Exploitation: Malicious Payload	Terminate
Process Injection: Remote Allocation of Memory	Terminate
Process Injection: Remote Mapping of Memory	Terminate
Process Injection: Remote Write to Memory	Terminate
Process Injection: Remote Write PE to Memory	Terminate
Process Injection: Remote Overwrite Code	Terminate
Process Injection: Remote Unmap of Memory	Terminate
Process Injection: Remote Thread Creation	Terminate
Process Injection: Remote APC Scheduled	Terminate

Process Injection: Remote DYLD Injection (Mac OS X only)	Terminate
Escalation: LSASS Read	Terminate
Escalation: Zero Allocate	Terminate
Watch for New Files	Selected

Advanced Threat Events tab fields and filters

The Advanced Threat Events tab displays information about events for the entire enterprise based on information available in the Dell Server.

The tab displays if the Advanced Threat Prevention service is provisioned and licenses are available.

To access the Enterprise Advanced Threats tab, follow these steps:

- 1. In the left pane, click Populations > Enterprise.
- Select the Advanced Threat Events tab.

Use the following filters to select content to display on the Advanced Threat Events tab:

Type - Threat Found, Threat Blocked, Threat Terminated, Memory Violation Blocked, Memory Violation Terminated, Memory Violation (Detected), Threat Removed, Threat Quarantined, Threat Waived, Threat Changed, Protection Status Changed.

Severity - Severity level of the event: Critical, Major, Minor, Warning, or Informational.

Timeframe (in days) - 1, 7, 14, 30, 60, 90

Columns - Allows you to select the following additional columns to display:

Host Name - The fully qualified name of the computer

Data - Details about the event

Created - Date and time that the event was captured

Machine Name - Name of the computer on which the threat event was detected

Path - Path to the file in which the threat was detected

Sha256 - The file's 256-character Secure Hash Algorithm can be compared with an expected result to indicate whether the file has been tampered with.

Score - The threat file's score, indicating the confidence level that the file is malware. The higher the number, the greater the confidence.

Manage Enterprise Advanced Threats - Protection

The Protection tab provides information about files and scripts that are potentially harmful.

Threats

The table lists all events found across the organization. An event may also be a threat but is not necessarily so.

View additional information about a specific threat either by clicking on the threat name link to view details displayed on a new page or by clicking anywhere in the row of the threat to view details at the bottom of the page.

To view additional threat information in the table, click the drop-down arrow on a column header to select and add columns. Columns display metadata about the file, such as <u>Classifications</u>, <u>Cylance Score</u> (confidence level), AV Industry conviction (links to VirusTotal.com for comparison with other vendors), Date first found, Data last found, SHA256, MD5, File information (author, description, version), and Signature details.

Filter Events Table Data

Click the **Threat Filters** dropdown list at the upper right side of the table to view data about events by Priority, Status: Last 24 Hours, and Status: Total.

The number of events occurring in each subcategory are shown in parentheses.

Priority: Unsafe - Select a priority to view only events that match the selected priority. High, Medium, or Low.

Status: Last 24 Hours - Select a status to view only events that have had changes to this status in the last 24 hours.

Status: Total - Select a status to only events with that status.

The predictive threat model used to protect devices receives periodic updates to improve detection rates. To understand differences in how a new threat model affects information about files in your organization, see Threat Model Updates.

Commands

Select a threat to act on it. On this page, you can do the following to the selected threat data:

Export - Export threat data to a CSV file.

Select the rows you want to export, and then click Export.

Open the file with Microsoft Excel or similar application, which allows you to sort and organize the data.

<u>Global Quarantine</u> - Add a file to the global quarantine list. The threat is permanently quarantined from all devices.

Add the selected file to the Global Quarantine list to prevent it from being run on any device in the organization. Adding a file to Quarantine removes it from lists of Unsafe files.

- 1. Select a threat.
- 2. Click Global Quarantine.
- 3. Enter a reason that this file should be global guarantined and click Yes.

<u>Safe</u> - Add a file to the safe list. The file is permanently treated as safe across all devices.

- 1. Select the file you want to list as safe.
- 2. Click Safe.
- 3. Select the category that fits the file.
- 4. Enter a reason why the file should be listed as safe, and click Yes.

Note: Occasionally, a "good" file may be reported as unsafe (this could happen if the features of that file strongly resemble those of malicious files). Waiving or safelisting the file can be useful in these instances.

Edit Global List - Add or remove files from the global quarantine list.

1. Click Edit Global List.

- 2. Select the items you want to change.
- 3. Select Safe to add the selected items to the safelist, or select Remove from list to remove the selected files from the Global Quarantine list.

Manually Add File to the Global Quarantine list

- Click Edit Global List.
- 2. Click Add File.
- 3. Enter the file's SHA256 hash number. (required)
- 4. Enter the file's MD5 number, if available.
- 5. Enter the file name, if available.
- 6. Enter the reason the file should be quarantined.
- 7. Click Submit.

View Threat Details - Click a threat name to display details of the threat details on a new page. Click anywhere in the threat's row to display the same threat details on the left side of this page, under the table.

File Details

Details: [file name]

At the bottom of the page, this section displays details about the file that triggered an event. To display this information, select the row that displays the file name in the Advanced Events table.

Click the filename next to Details: to display the same information about the event on a new web page.

Overview

The overview box contains summary information about the file.

Threat Indicators

Threat Indicators are observations about a file that has been analyzed.

These indicators help administrators understand the reason for a file's classification and provide insight into its attributes and behavior. Threat Indicators are grouped into categories.

Devices

In the Devices pane, the administrator can view a list of devices that have unsafe or abnormal files and quarantine or waive them.

The device list can be filtered by file state: Unsafe, Quarantined, Waived, or Abnormal.

Waiving a file will allow that file to run on the device.

Detailed Threat Data

If the file has been uploaded for analysis, the Detailed Threat Data pane may display a comprehensive summary of the static and dynamic characteristics of the file including additional file metadata, file structure details, and dynamic behaviors such as files dropped, registry keys created or modified, and URLs with which it attempted to communicate.

Note: If no results display in the Detailed Threat Data pane, the file has not yet been uploaded for analysis. Debug logging may provide information about why the file was not uploaded.

Script Control Table

The table lists details about Active and PowerShell scripts that have been blocked or have triggered an alert and the affected devices.

Columns display the File name, Interpreter (PowerShell or ActiveScript), Last found, Drive type (such as internal hard drive), SHA256, Number of devices on which the script is found, and Number of occurrences that were blocked or triggered alerts.

To filter column data, click the filter icon on a column header and select values to include or exclude.

Manage Enterprise Advanced Threats - Agents

After an Advanced Threat Prevention client is installed on an endpoint computer, it is recognized by the Security Management Server as an agent.

Agents Table Data, Explained

- Name The name of the agent on the endpoint computer.
- State State of the agent, online or offline. A computer will be in the offline state after three failed attempts in a 15-minute period to contact the Cylance server.
- Offline Date If applicable, the date on which the agent went offline.
- Files Analyzed Number of files analyzed on the endpoint computer.
- Unsafe Number of files deemed Unsafe on the device. An unsafe file has characteristics that greatly resemble malware.
- Quarantined Number of files Quarantined on the device.
- Waived Number of Waived files on the device.
- Abnormal Number of Quarantined files on the device.
- Exploit Attempts Number of exploit attempts on the device.

Commands

To export details about an agent or remove an agent from the list, click the appropriate button:

Export - Creates and downloads a CSV file that contains device information (Name, State, Policy, etc.).

Remove - Removes selected agents from the Agent Table. This does not uninstall the agent from the device.

Manage Enterprise Advanced Threats - Certificate

The Certificate tab allows you to upload a certificate for the purpose of safelisting it.

Certificates must be in .cer or .crt format.

To upload a certificate, follow these steps:

- 1. Navigate to Populations > Enterprise > Advanced Threats tab > Certificate tab.
- 2. Click Browse.
- 3. Select a certificate and click Open.
- 4. Click Upload Certificate.

5. At the *Upload Successful* dialog, click **OK**.

For instructions about how to safelist a certificate, see Manage Enterprise Advanced Threats - Global List.

Manage Enterprise Advanced Threats - Cylance Score and Threat Model Updates

A Cylance score is assigned to each file that is deemed Abnormal or Unsafe. The score represents the confidence level that the file is malware. The higher the number, the greater the confidence.

Threat Model Updates

The predictive threat model used to protect devices receives periodic updates to improve detection rates.

Two columns on the Protection page in the Remote Management Console show how a new threat model affects your organization. Display and compare the Production Status and New Status columns to see which files on devices might be impacted by a model change.

To view the Production Status and New Status columns:

- 1. In the left pane, click Populations > Enterprise.
- Select the Advanced Threats tab.
- 3. Click the Protection tab.
- 4. Click the down-arrow on a column header in the table.
- 5. Hover over Columns.
- 6. Select the Production Status and New Status columns.

Production Status - Displays the current model status (Safe, Abnormal or Unsafe) for the file.

New Status - Displays the model status for the file in the new model.

For example, a file that was considered Safe in the current model might change to Unsafe in the new model. If your organization needs that file, you can add it to the Safe list. A file that has never been seen or score by the current model might be considered Unsafe by the new model. If your organization needs that file, you can add it to the Safe list.

Only files found on device in your organization and that have a change in its Cylance Score are <u>displayed</u>. Some files might have a Score change but still remain within its current Status. For example, if the Cylance Score for a file goes from 10 to 20, the file status may remain Abnormal and the file will appear in the updated model list (if this file exists on devices in your organization).

The information for the model comparison comes from the database, not your devices. So no re-analysis is done for the model comparison. However, when a new model is available and the proper Agent is installed, a re-analysis is done on your organization and any model changes are applied.

Compare Current Model with New Model

You can now review differences between the current model and the new model.

The two scenarios you should be aware of are:

Production Status = Safe, New Status = Abnormal or Unsafe

- Your Organization considers the file as Safe
- Your Organization has Abnormal and/or Unsafe set to Auto-Quarantine

Production Status = Null (not seen or scored), New Status = Abnormal or Unsafe

- Your Organization considers the file as Safe
- Your Organization has Abnormal and/or Unsafe set to Auto-Quarantine

In the above scenarios, the recommendation is to Safelist the files you want to allow in your organization.

Identify Classifications

To identify classifications that could impact your organization, Dell recommends the following approach:

- 1. Apply a filter to the New Status column to display all Unsafe, Abnormal, and Quarantined files.
- 2. Apply a filter to the Production Status column to display all Safe files.
- 3. Apply a filter to the Classification column to only show Trusted Local threats. Trusted - Local files have been analyzed by Cylance and found to be safe. Safelist these items after review. If you have a lot of files in the filtered list, you may need to prioritize using more attributes. For example, add a filter to the Detected By column to review threats found by Execution Control. These were convicted when a user attempted to execute an application and need more urgent attention than dormant files convicted by Background Threat Detection or File Watcher.

Manage Enterprise Advanced Threats - Global List

The Global Quarantine, Safe, and Unassigned tables provide a view of files in list as well as options to perform actions on these files.

Global Quarantine

Global Quarantine lists files that are permanently quarantined from all devices.

Add a file to the global quarantine list

Add the selected file to the Global Quarantine list to prevent it from being run on any device in the organization. Adding a file to Quarantine removes it from lists of Unsafe or Unassigned files.

- 1. Select Global Quarantine (n).
- 2. Select a threat.
- 3. Click Add File.
- 4. Enter a reason that this file should be global guarantined and click Yes.

Manually Add File to the Global Quarantine list

- 1. Select Global Quarantine (n).
- 2. Click Add File.
- 3. Enter the file's SHA256 hash number. (required)
- 4. Enter the file's MD5 number, if available.
- 5. Enter the file name, if available.
- 6. Enter the reason the file should be guarantined.
- 7. Click Submit.

Remove a file from the global quarantine list

Remove the selected file from the Global Quarantine list to allow it to run on any device in the organization.

- 1. Select Global Quarantine (n).
- 2. Select a file.
- 3. Click Remove from List.

Safelist a file from the global guarantine list

Safelist the selected file from the Global Quarantine list to allow it to run on any device in the organization.

- 1. Select Global Quarantine (n).
- 2. Select a file.
- 3. Click Safe.

Safe

Safelisted files and certificates are permanently treated as safe across all devices. Any certificate that is safelisted will be a known safe certificate for the Advanced Threat Prevention tenant.

Add a file to the safe list

Safelisting a file allows that file to run on any device across the entire organization.

Note: Occasionally, a "good" file may be reported as unsafe (this could happen if the features of that file strongly resemble those of malicious files). Waiving or safelisting the file can be useful in these instances.

- 1. Select Safe (n).
- 2. Click Add File.
- 3. Enter the file's SHA256 hash number. (required)
- 4. Enter the file's MD5 number, if available.
- 5. Enter the file name, if available.
- 6. Enter the reason the file should be safelisted.
- 7. Click Submit.

Remove a file from the safe list

- 1. Select Safe (n).
- 2. Select Files (n).
- 3. Select the file you want to remove from the safe list.
- 4. Click Remove from List.

Add a certificate to the safe list

Safelisting a certificate allows access to that certificate, as needed, across the entire organization.

- 1. Select Safe (n).
- 2. Select Certificates (n).
- 3. Select the certificate you want to list as safe.
- 4. Click Add Certificate.

- 5. Select the category that fits the certificate.
- 6. Enter a reason why the certificate should be listed as safe, and click **Submit**.

Note: You must upload a certificate in order for it to be available to safelist. For more information, see Manage Enterprise Advanced Threats - Certificate.

Remove a certificate from the safe list

- 1. Select Safe (n).
- 2. Select Certificates (n).
- 3. Select the certificate you want to remove from the safe list.
- 4. Click Remove from List.

Unassigned

Unassigned files can be added to the global quarantine or safe list.

Add an unassigned file to the global quarantine list

Add the selected file to the Global Quarantine list to prevent it from being run on any device in the organization. Adding a file to Quarantine removes it from lists of Unsafe or Unassigned files.

- 1. Select Unassigned (n).
- 2. Select a file.
- 3. Click Global Quarantine.
- 4. Enter a reason that this file should be global quarantined and click Yes.

Manually Add File to the Global Quarantine list

- 1. Select Unassigned (n).
- 2. Click Add File.
- 3. Enter the file's SHA256 hash number. (required)
- 4. Enter the file's MD5 number, if available.
- 5. Enter the file name, if available.
- 6. Enter the reason the file should be guarantined.
- 7. Click Submit.

Add an unassigned file to the safe list

Safelisting a file allows that file to run on any device across the entire organization.

- 1. Select Unassigned (n).
- 2. Select a file.
- 3. Click Safe.
- 4. Select the category that fits the file.
- 5. Enter a reason why the file should be listed as safe, and click Yes.

Note: Occasionally, a "good" file may be reported as unsafe (this could happen if the features of

that file strongly resemble those of malicious files). Waiving or safelisting the file can be useful in these instances.

Manually Add File to the Safe list

- 1. Select Unassigned (n).
- 2. Click Add File.
- 3. Enter the file's SHA256 hash number. (required)
- 4. Enter the file's MD5 number, if available.
- 5. Enter the file name, if available.
- 6. Enter the reason the file should be safelisted.
- 7. Click Submit.

Add the selected file to the Global Quarantine list to prevent it from being run on any device in the organization. Adding a file to Quarantine removes it from lists of Unsafe or Unassigned files.

- 1. Select Global Quarantine (n).
- 2. Select a threat.
- 3. Click Add File
- 4. Enter a reason that this file should be global quarantined and click Yes.

Manually Add File to the Global Quarantine list

- 1. Select Global Quarantine (n).
- Click Add File.
- 3. Enter the file's SHA256 hash number. (required)
- 4. Enter the file's MD5 number, if available.
- 5. Enter the file name, if available.
- 6. Enter the reason the file should be guarantined.
- 7. Click Submit.

Manage Enterprise Advanced Threats - Options

The Options tab allows you to integrate with Security Information Event Management (SIEM) software using the Syslog feature as well as export Advanced Threat data. SIEM software allows administrators to run customized analytics on threat data within their environments. Software options include Splunk, available to Splunkbase users at https://splunkbase.splunk.com/app/3233.

Syslog events are persisted at the same time Agent events are persisted to the Cylance server. For more information about supported event types, see Syslog Event Types.

To integrate with SIEM, select **Syslog/SIEM** on the **Options** tab, and complete the form that displays. For a list of syslog server IP addresses to allow, see **Syslog IP Addresses**.

With SIEM integration, to export data about threats, select **Threat Data Report** on the **Options** tab. For instructions and a description of exportable data, see <u>Threat Data Report</u>.

Threat Data Report

Select Threat Data Report on the Options tab to enable threat data export to .csv files.

The following types of data are available for export:

Threats - Lists all threats discovered in your organization. This information includes File Name and File Status (Unsafe, Abnormal, Waived, and Quarantined).

Devices - Lists all devices in your organization that have an Agent installed. This information includes Device Name, OS Version, Agent Version, and Policy applied.

Events - Lists all events related to the Threat Events Graph on the Dashboard for the last 30 days. This information includes File Hash, Device Name, File Path, and the Date the event occurred.

Indicators - Lists each threat and the associated threat characteristics.

Cleared - Lists all files that have been cleared in your organization. This information includes files that were Waived, added to the Safe List, or deleted from the guarantine folder on a device.

Export Data

To access the exported data:

- Select Generate token.
- 2. Copy the URL of the desired data and paste it into a web browser address field.
- 3. In the URL, replace [Token] with the generated token displayed in the Token field.

To disable access to the exported data, select **Delete** or **regenerate** to invalidate the current token. After regenerating a token, provide it to persons who should have continued access to the exported data.

Advanced Threat Prevention Classifications

The Advanced Threat Prevention Classifications pane shows a heat map of threats. The color indicates the priority classification of the threat. The size of the box indicates the relative number of endpoints that have a particular threat. This classification helps administrators determine which threats and devices to address first. Click a threat to view threat and device details.

Threat classifications include the following:

Malware

- Trojan
- Downloader

Potentially Unwanted Programs (PUP)

- Adware
- Hacking Tool
- Portable Application

Enable Compatibility Mode for Memory Protection

Compatibility Mode allows applications to run on the client computer while Memory Protection or Memory Protection and Script Control policies are enabled. Compatibility Mode is enabled through a registry setting or a command on the client computer. Compatibility Mode does not apply to Mac clients.

To enable Compatibility Mode with a registry setting:

- 1. In the Remote Management Console, disable the Memory Protection Enabled policy. If the Script Control policy is enabled, disable it.
- 2. Save the policy changes, and Commit_Policies.
- Using the Registry Editor on the client computer, go to HKEY_LOCAL_MACHINE\SOFTWARE\Cylance\Desktop.
- 4. Right-click Desktop, click Permissions, then take ownership and grant yourself Full Control.
- 5. Right-click Desktop, then select New > Binary Value.
- 6. For the name, type CompatibilityMode.
- 7. Open the registry setting and change the value to 01.
- 8. Click OK, then close Registry Editor.
- 9. In the Remote Management Console, enable the Memory Protection Enabled policy. If the Script Control policy was enabled, enable it.
- 10. Save the policy changes, and Commit_Policies.

To add the registry setting with a command:

- 1. In the Remote Management Console, disable the Memory Protection Enabled policy. If the Script Control policy is enabled, disable it.
- Save the policy changes, and <u>Commit_Policies</u>.
- 3. Select one command line option to run on the client computer:

(For one computer) Psexec:

psexec -s reg add HKEY_LOCAL_MACHINE\SOFTWARE\Cylance\Desktop /v CompatibilityMode /t REG_BINARY /d 01

(For multiple computers) Invoke-Command cmdlet:

\$servers = "testComp1", "testComp2", "textComp3"

\$credential = Get-Credential -Credential {UserName}\administrator

Invoke-Command -ComputerName \$servers -Credential \$credential -ScriptBlock {New-Item -Path HKCU:\Software\Cylance\Desktop -Name CompatibilityMode -Type REG_BINARY -Value 01}

- 4. In the Remote Management Console, enable the Memory Protection Enabled policy. If the Script Control policy was enabled, enable it.
- 5. Save the policy changes, and Commit_Policies.

Disconnected Mode Policy Examples

Examples for Global Allow, Quarantine List, and Safe List policies are shown below.

Global Allow policy example

```
<?xml version="1.0" encoding="utf-8"?>
<disconnected policy>
  <policy_name>Default</policy_name>
  <policy_company>Acme</policy_company>
  <policy_company_id>uxSYabW9P2nMbGLzuqJhvT9Y</policy_company_id>
  <policy_utctimestamp>Date(-62135596800000+0000)/policy_utctimestamp>
  <filetype_actions>
    <suspicious_files file_type="executable" actions="7" />
    <threat_files file_type="executable" actions="7" />
  </filetype_actions>
  <memoryviolation actions>
    <memory_violation violation_type="stackpivot" action="Alert" />
    <memory_violation violation_type="stackprotect" action="Block" />
    <memory_violation violation_type="stackpivot" action="Terminate" />
    <memory_violation violation_type="overwritecode" action="None" />
    <memory_violation violation_type="outofprocessallocation" action="Scuba" />
    <memory_violation violation_type="outofprocessmap" action="Alert" />
    <memory_violation violation_type="outofprocesswrite" action="Block" />
    <memory_violation violation_type="outofprocesswritepe" action="Terminate" />
    <memory_violation violation_type="outofprocessoverwritecode" action="None" />
    <memory_violation violation_type="outofprocessunmapmemory" action="Alert" />
    <memory_violation violation_type="outofprocesscreatethread" action="Alert" />
    <memory_violation violation_type="outofprocessapc" action="Alert" />
    <memory_violation violation_type="lsassread" action="Alert" />
    <memory_exclusion_list>
      <path>temp\files\exe1.exe</path>
      <path>stuff\folder\exe2.exe</path>
    </memory_exclusion_list>
  </memoryviolation_actions>
```

```
<appcontrol>
<changewindow_enabled>0</changewindow_enabled>
<lockdown lockdown type="executionfromexternaldrives" action="deny" />
<lockdown lockdown_type="pechange" action="deny" />
  </appcontrol>
  <policy>
    <option name="auto_blocking" value="0" />
    <option name="auto_uploading" value="1" />
    <option name="threat_report_limit" value="500" />
    <option name="low_confidence_threshold" value="-600" />
    <option name="full_disc_scan" value="0" />
    <option name="watch_for_new_files" value="0" />
    <option name="memory_exploit_detection" value="0" />
    <option name="trust_files_in_scan_exception_list" value="0" />
    <scan_exception_list>
      <path>C:\temp</path>
      <path>C:\stuff</path>
    </scan_exception_list>
  </policy>
  <exclusion_list>
<checksum>3fdc391ef0e200af3e4c206e785e1de0</checksum>
<error_rate>1E-05</error_rate>
<size>509</size>
```

<exclusionlisthash>XjxtEUkQvOFIxTZof+f6Jb149fhxFb0HUzc3S/5Hif6zqeiZrvOaM9QvGruMlun
/uiOGeMwiNB3lLCBD9PtwbgaYUpiz8Ne88wOmKhnerXo5TJRy+4HzPWDotDXSz+d5AHP74zbbHfH7m47KG
9bFAsPa4KNhFLqSOD3g/AI7ZCWLL/IOFyWcFMTLLkeLRycDIyZpzf8QDskQVsAt8Ublh2UGY4BGgKwCQfY
z9J/yJWuF1XGy9A7rMAHzYdqh0B5s4Y2iB2jrdlHuGSxtNPu9gTuMldfxEBgcXq7XUWxuJUTbo1Fv2jsCH
Ypd/hg1d+3SkNbI9qykHmK9gnCH2r7IHPlK5zvR9Y1eVxTshl6JoxQMDD+M0VkrL3tHqlS1mJi9NI979dd
8GiYnAqtkFsMg+FhOT2PkVkBSzLgkCF+rHWoeDdo+MVX79X9XjJqT1kRwSM2p30IPi4g+NH6X/YPs6Fz7w
b95jMx6ILX/L7pHGOdM0fSeSfwO/XIOyk5FhogOJqY86SkJs437CS7+pW+nz821XuFqNP4pZaG2xf2iepT
Do89dAMQJGWEoCnlR1z0lPI8782TLLRm5OKytCrhUMut+P28K8LuPOTdTgSCnf2uVrcecQTz/BZOyqX5B6
vy7g1P2H0HmEV1uVfhWMjABRoSK+aI5VXd5qNRaY4zfn0w5Z6L0iIYDtvESgkLuw0bzHrsf5ADKEkwv9Ig
09DxhDYzLdJlZp/DNMsnJGtvntZ/cezXbGtzJuGSFq7lem5L00cavDQ3vRo3GlfettwN2CT9Z2MssLJhwe
TS8utTabMBFfIsM8dx3sdN26lAsx9rDyR7fLn4BJ2WnMXv8FRoTZJ3oXxOQFUsCM1Rnhw7ottTaLEiPf7R
d4jdxbsErBnK1CYfyYAePaD6ycle1h6bYMyWxUUD2ZqyVBiu3La/4MKalmI9V2IzEsYObxp9RRXkY3HcTz
PHk5e8Zp+YbPQAr88RNpC277sCRiBWYlb000H/hx5yc61rae/pzrGjusBT53KaiG6mlLpvRYrqDQ7fW0cp
Fa2eC1czQ+o8LN/gNVT7FtFhKgd8pnQW00CidxeSULfzRk6TS9rLCgXBDtRyK1fRrkkOCrHZU/YvC2BXaW

VAx60giDsKxBUYQsgXQbaGwPG279ChdwnjWlVMWCqdvOoGEBMDApjbkqqkwgHJpkCJIF4zOTChpVfM17Pf
Kw/uycxoqMzpdb+AOQnTX+MzRm9BkTN9T9aFh+CRleDqc/xhP59RBUUT3GAP+rk3789EQXdUVp9tC7hmXT
jjg85jWSEe6IcGE5RY7NQXdXZGJScLmyiUVq+01ZjO3xkAUZ5eq01UJo5KYaneGeYQFe7VzSmyzPMao6YP
fpnRxOuLvMANIhKf9q0zL1IPgJfVTwU9AHoLcUE2ztor3bdrRnZ3+e5HqZkEpHtMGruMjiP4ZLmA7tJNhj
63KspEEKJfCSkXGw74+cepc6J5ThPJWNd33IZmgcwqE27/sXxsb5xzYFgfBUZmr12KnU7JMbg95bZTatxN
8PtIQS2NTdnyXK/f7j7i74FQZXNksONgfyEelFDOTlqlI7SLKw1uffUEk2QGv54bUQANLhbAvLbLR1b6v3
52rw3ANgECdQbqXcvKE/jYKUzHSW3qqIPcPnrguYVoJuydKNiJVmoaqPLJ3LC6m7+PdGBuqEdVo+MK/PMJ
dTVb47zW1RSYX0t9SJ/4xWEBybUMsHXRZTux6nlca5qCxHDiHb50I677Bi+Y0YLddza7iA7z4mPTRmqEX6
jEo5ZorZ4kcTIbNHj77p4kzouYDg3s+o+9KvoxcI0iw8MAOtKrRVZTN24jjSUAETJ66rb3JdzcfJJeb7w4
QVOUckL2kfyaS4ASp80fzpOxJl3hSLw2bnR2n0WukMhj3kWvY+GeXDBfGzHfDGeLV0pF/+hQTPR/XWuOSs
nH1wUeJEXS3al6lyhcRCS7XbVPt+85NYGuk2ntf6zmST/v6a3E2exxerUDAmHfCK/0VQKrqlYec1hkH1Sb
vCO==

<exclusionlisthash secondary>rT7Ur0ItY0RfpDEVEDwSXdiGq3fUqEJ90p0MEUEacRRy10FAS2W51 m9f3hbzrOA7lvoiKZLy9/h0koV2d5vyIj+xC275ucwOvqhKpKPQH8mfcD3vT498DuteV0i1Tmzq/WFLlhd qK75CF8ys17UVZZabbExD2s9W49gUft5W9UozOW5K1mC9V5E79YCf83s0wra6qrZqENI98WNpD9UbyN1UQ ${\tt N72g5mQligT8ViuoEMagB6JQaTI8CgCLe6NK8DFvuykGOYVtLfKCtmCqt0eg1Im0oFxLiVrouovcCdNpfz}$ WOXflQSEVEbVeqfPxEuTrHRWZBzFxOYLrT86tSsH811+XC3uFjN7uI/HB8daE3saFPmIAZUC9sq3rMU8Ro y9+iRw3lebL0P51RTSHxC9Mz8xr85gt3m4MyqSO8mNNBxIzwxeUCishz8A17VB5ai/R5Hy17zMTwIXU2x5 Pcnpd2UqyeLQbXWpnkeRpl7f0rdwBM0FDCpZqExnFYQswv0b8kPnruC0/iIgx/zNSFeuFlT8dSbCZNvgh0 70hh4sl0v9U9Ir7nBe9ZreDqdZMdZ1wCTqXBk/yxJB74+95uRYasNznVAG2yD1IIwtWNvyqHrmw5sZqk09 7K2quTOHjDp0thnhaSGdOK5pF2TFEm8zegjewP65pR5Jdys11vKquzbx3NZ3LtR0XyVIMBzcF9NDLP8v4U kwaKg9EL73o2yPjqgDVwt9AhXlh4VdSEv5M+JRfo+EguQB9I/DleTbWUGAEMMn1cADZj9yY0fB/SEsDVAW iLbiP/PYcUXz6q4Cv2uF9jk2Tn7KEbvuFWfIlnq2+z/qUNUH0Uj44jqqswv6G/q5VfbW5dM0MtTGmZd5jE 8PNy3R/uyqm4ZoTvnOUu93FIC8dpmVjlsyii9XhM8XN/YX9om5wXAJ9CuTqRWbuUK4lvW9ROiEokORFu76 Y80TEvx6kpCEFqAVZlhbfe0fmGo+CD1wI+dq0tze2BN7jk/ItXqiPKp/+/fLoH3HR8mZSWX8bW8uRpBqqo 3xq57tpP9JxcvP0etG9funqtlBjzAd53Frro8XYXbz0d71honuEsFYv4T03ojU8w7a9EBbJ7SvRfDDi27m T/YmZNr3Y39FR1T7qO44Nq5cjqp9etwVIeqo1xpfBXECF2PxOuA/S7u06OakK+Nqk1+bFw5MBbG/NLHALb kV+jbL6NKmUMWHYO4ruPzSoUYE84f9V0WFBzpWMxnx/j/ZZZMwv8+p8kF3dAR9SjK38coPVCnLCJ8uDJPo LDXS79u+pfQbsqqdPL+dwDeQAlIhHzjpNlpM5UeHYGUiwHFbOr8GTdq2GSEacfW510uv1dNeIk1wo2a2zl cBMH0V57f3/aVi0ZDtDKL5N1T081xSPa6/hck4RGjIRInr6320mMh/dtx+40q7c8269KQSnXvpaVS8kyf2 GvLMHCWurEg+NyCB0N5+UonnC+0i9KialfIByLBuPCNQppds0mkjhbCmJqPtCxgLaJVYop2qddzsry9PFW 97tDEJcUilrQc7a5NTFWExc4a8LLpT+dtXNxEvZAg2VSsffawcZ894um6Gw55IBRmLHeyso0Y3zBWOGq5G 3KA31fFyk9OAfxgdwIkHA6jB9nSRzi/ea7HSRUHNRfp26Bc0/c4K/dDDA23NdTOT14AIuU+3d822EH91/M cuVa1FAK1gzPwcOrL81T3x9vrRJwUOCw0EamqgAzQNrE3tIbPsVuOhevtZhjm+NDzRZcxuk4Tu38Tojo5H 2xCucaEWdYxz0CKzCch/vH8FIpr0J9s1Jbl0Ac1m+frnuUZImePkSXdmvkX4SpD4hoCy0L1F4eVGMniFfj fCIhQyBwphCoqGKo1wP7WOQA/9fDZc7z0vka2u6Uz3Sy/ekJHZ0yI7OzP4nAzTq7bnBQR2KCXgLaUP2mq0 VjyFS9zPmsxloHU8fjs2kDP4jH2e+qXSAJwQ0112Y+9mEvdktSkAJq24c5HS04F80p1Ae8YhpuAECKXqCC +P0YiksNToTGA==</exclusionlisthash secondary>

```
</exclusion_list>
</disconnected_policy>
```

Quarantine List and Safe List policy examples

Quarantine List

The Global Quarantine List contains hashes of files to be quarantined as shown in this example:

0A5F695900F1FC75070BB8B7C7A55B5BCFAAD6FE

525E7A55B5BCB6B16F25B5DD6CE11DFC6DD0B4E6

Safe List

The following sample value for the Safe List policy can be set at the Enterprise- and Endpoint-levels:

```
<exclusion_list>
```

<checksum>3fdc391ef0e200af3e4c206e785e1de0</checksum>

Threat Protection Policy Overview

Threat Protection policies are divided into the following categories:

- Threat Protection
- Client Firewall
- Web Protection

When you set the *Threat Protection* policy to Selected, you can then set policies for these client options:

Actions to take when malicious activity is identified (Block, Report, Block and Report)

Policies allow you to set the action to take when users attempt to modify or delete Threat Protection system files, registry keys, and processes. The default setting for these policies is Block and Report: Action on Malicious Activity for Files and Folders, Action on Malicious Activity for Registry, and Action on Malicious Activity for Processes.

- Exclusion of specified processes from Threat Protection scans
- Logging locations and debug/verbose logging of certain activities

Activity logging is enabled by default. Debug logging is disabled by default.

Client update scheduling

Client updates ensure that client computers are always protected from the latest threats through content files that include definitions of threats such as viruses and spyware, that are used to detect threats. The *Client Update Schedule* policy is selected (Enabled) by default. The *Client Update Schedule* Repeats policy, which determines the frequency of client updates, is set to Daily by default.

The following policies represent the different types of scans included in Threat Protection:

On-Access Protection – When a user accesses files, folders, and programs, the on-access scanner intercepts the operation and scans the item. Default: Selected (Enabled).

On-Demand Protection - Full Scan - Based on a schedule set in policy, the on-demand scanner runs a thorough check of all areas of the computer. Default: Selected (Enabled).

By default, every time Full Scan runs, it scans the following for threats:

- Computer memory for installed rootkits, hidden processes, and other behavior that suggests malware is attempting to hide itself. This scan occurs before all other scans.
- Memory of all running processes.
- All drives on the computer and their subfolders.

By default, the scanner scans all file types, regardless of extension.

On-Demand Protection - Quick Scan - Based on a schedule set in policy, the on-demand scanner runs a quick check of areas of the computer that are most susceptible to threats. Default: Selected (Enabled).

By default, every time Quick Scan runs, it scans the following for threats:

- Memory of all running processes.
- Files that the Windows Registry references.
- Contents of the Windows folder.
- Contents of the Temp folder.

By default, the scanner scans all file types, regardless of extension.

Access Protection - Prevents other computers from making a connection and creating or altering autorun (autorun.inf) files from CDs. The rule prevents spyware and adware distributed on CDs from being executed and automatically blocks and reports such issues. Default: Selected (Enabled).

Exploit Protection - Monitors for application vulnerabilities and keeps buffer overflow exploits from executing arbitrary code on the computer. Default: Selected (Enabled).

Script Scan Protection - Enables scanning JavaScript and VBScript scripts to prevent unwanted scripts from executing. Default: Selected (Enabled).

Actions taken if a threat, unwanted program, or exploit is detected are controlled by policy and include the following:

Full-Scan Threat First Response - Specifies the first action for the scanner to take when a threat is detected. Default: Clean file.

Full-Scan Threat First Response Fails - Specifies the action for the scanner to take when a threat is detected if the first action fails. Default: Delete file.

Full-Scan Unwanted Program First Response - Specifies the first action for the scanner to take when a potentially unwanted program is detected. Default: Clean file.

Full-Scan Unwanted Program First Response Fails - Specifies the action for the scanner to take when an unwanted program is detected if the first action fails. Default: Delete file.

Quick-Scan Threat First Response - Specifies the first action for the scanner to take when a threat is detected. Default: Clean file.

Quick-Scan Threat First Response Fails - Specifies the action for the scanner to take when a threat is detected if the first action fails. Default: Delete file.

Quick-Scan Exploit First Response - Specifies the first action for the scanner to take when a potential exploit is detected. Default: Clean file.

Quick-Scan Exploit First Response Fails - Specifies the action for the scanner to take when an exploit is detected if the first action fails. Default: Delete file.

When the *Full-Scan Reputation Service Sensitivity* or *Quick-Scan Reputation Service Sensitivity* policies are enabled, samples are submitted to the Reputation Service lab to determine if they are malware. The sensitivity level is used when determining if a detected sample is malware. The higher the sensitivity level, the higher the number of malware detections. However, allowing more detections might result in more false positive results.

The following values can be set:

Disable - Samples are not submitted to the Reputation Service lab.

Very Low - A detection is made available to Threat Protection when the Reputation Service lab publishes it instead of waiting for the next file update. Average of 10-15 queries per day, per computer.

Low - This setting is the minimum recommendation for laptops or desktops and servers with a strong security footprint. This setting results in an average of 10-15 queries per day, per computer.

Medium - Use this level when the regular risk of exposure to malware is greater than the risk of a false positive. This setting is the minimum recommendation for laptops or desktops and servers. Average of 20-25 queries per day, per computer.

High - Use this setting for deployment to systems or areas which are regularly infected. This setting results in an average of 20-25 queries per day, per computer.

Very High - Dell recommends using this level only for scanning volumes and directories that do not support executing programs or operating systems. Detections found with this level are presumed malicious, but have not been fully tested to determine if they are false positives. Use this setting for on-demand scans on non-operating system volumes. This setting results in an average of 20-25 queries per day, per computer.

For more detail about Threat Protection policies, see Windows Threat Protection.

Client Firewall Policies

The Client Firewall is a stateful firewall that checks all incoming and outgoing traffic against its list of rules. If the traffic matches all criteria in a rule, the Client Firewall acts according to the rule, blocking or allowing traffic through the firewall.

Configurable options and rules define how the Client Firewall works. When the master policy, *Client Firewall*, is set to **On**, you can select **View/Edit** in the *Settings and Rules* policy to view or configure an extensive set of Client Firewall options and rules.

Options include which subsets of traffic to block or allow and logging settings, as well as timeout parameters for TCP, UDP, and ICMP connections.

Client firewall rules define specific handling of network traffic. Each rule provides a set of conditions that traffic must meet and an action to allow or block that traffic. When Client Firewall finds traffic that matches a rule's conditions, it performs the associated action.

Client Firewall uses precedence to apply rules and applies the rule at the top of the firewall rules list.

- 1. If the traffic meets the conditions of the rule at the top of the list, Client Firewall allows or blocks the traffic. It does not try to apply any other rules in the list.
- 2. If the traffic does not meet the first rule's conditions, Client Firewall continues to the next rule in the list until it finds a rule that the traffic matches.
- 3. If no rule matches, the firewall automatically blocks the traffic.

For a list of Client Firewall rules and their descriptions, see Client Firewall Settings and Rules.

Web Protection Policies

Web Protection monitors web browsing and downloads to identify threats and enforce action set by policy when a threat is detected, based on ratings for websites. When you set the master policy, *Web Protection*, to **On**, you can set other policies for Web Protection.

The Reputation Service analyzes each website and assigns a color-coded safety rating based on test results. The color indicates the level of safety for the site:

Red - Malicious

Yellow - Potentially malicious

Green - Safe

Through the following policies, you can assign actions to implement when a user accesses a website or attempts a download, based on website ratings:

Rating Action for Red Sites - Specifies the action to apply to sites that are rated Red. Default: Block.

Rating Action for Yellow Sites - Specifies the action to apply to sites that are rated Yellow. Default: Warn.

Rating Action for Unrated Sites - Specifies the action to apply to sites that are Unrated. Default: Allow.

Rating Action for Red Downloads - Specifies the action to apply to file downloads that are rated Red. Default: Block.

Rating Action for Yellow Downloads - Specifies the action to apply to file downloads that are rated Yellow. Default: Warn.

Rating Action for Unrated Downloads - Specifies the action to apply to file downloads that are Unrated. Default: Allow.

Configurable actions for website access or download attempts include the following:

Block - Prevents users from accessing the site or downloading a file from the site. A message is displayed.

Allow - Permits users to access the site or proceed with the download.

Warn - Displays a warning to notify users of potential dangers associated with the site or download file. Users must dismiss the warning before ending the web session or proceeding with the download.

To exclude a private IP address or range of addresses from Web Protection content rating actions, specify the IP address or IP address range in the IP Exclusions for Web Protection policy.

To block all phishing pages, without regard to policy values that control content rating actions, select the *Enforcement - Block Phishing Pages for All Sites* policy.

Designate a Threat Protection Signature Update Server

Both an HTTP and FTP signature update server are pre-configured with your Security Management Server installation. You can also, optionally, designate an internal signature update server or servers within your network.

Designating a signature update server within your network allows client computers to obtain signature updates without accessing the Internet. Rather than individual clients contacting an external update server, they contact your internal update server, which maintains current signatures through contact with the external signature update server.

To designate a signature update server, follow these steps:

1. As an administrator on the server that will be the internal update server, run the appropriate command:

```
VSSETUP_86.EXE /SetRelayServerEnable=1 or VSSETUP_64.EXE /SetRelayServerEnable=1
```

- 2. Restart the internal update server.
- 3. In the Dell Server Remote Management Console, navigate to **Populations > Enterprise** and select **Malware Protection** on the Security Policies tab.

- 4. In Malware Protection advanced settings, click Source Sites for Updates.
- 5. Click Add.
- 6. Enter a Name for the internal update server.
- 7. To enable connections to the internal update server, select **Enabled**. To enable later, clear the Enabled check box.
- 8. In the Order field, set the sequence in which clients will contact the internal update server in relation to other update servers. Dell recommends that you set the Order for internal update servers to precede the Order for external update servers.
- 9. Select the type of repository or path to the update server: HTTP repository, FTP repository, UNC path, or Local path.
- 10. Enter the URL or path to the internal update server.
- 11. Complete the remaining fields in the form, and click **OK**.
- 12. Repeat these steps to designate additional internal update servers.

To revert an internal update server to non-update server status, enter the appropriate command:

VSSETUP_86.EXE /SetRelayServerEnable=0 or VSSETUP_64.EXE /SetRelayServerEnable=0

Data Guardian

Data Guardian

Data Guardian provides the following:

- Data is encrypted on the device and if the data is moved. To decrypt and view the content, users must have Data Guardian installed on the client. Users can access protected files on Windows, Mac, mobile devices, and a web portal.
- An audit trail of file activity allows you to monitor security. See <u>Data Guardian and Audit Events</u>.
- Protection against data leakage for protected Office documents policies allow you to control
 copy/paste or to add a watermark with the user's name, domain, and computer ID

Data Guardian basic policies are available for these populations:

- <u>Cloud Encryption</u> Enterprise, Endpoint Groups, and Endpoints
- Protected Office Documents Enterprise (master switch)
- Mobile Client Enterprise, Domain, User Groups, and User
- Web Portal Enterprise, Domain, User Groups, and User
 - Node level policies are only available at the Enterprise level and require a node restart.
 - Lock Account is only available at the User level.

Determine which Data Guardian policy groups you want to enable for Windows and Mac:

Data Guardian Policy Groups	Windows	Mac
Cloud Encryption is <i>On</i> Protected Office Documents is <i>Off</i>	Office and non-Office documents are protected as .xen files based on policies set. A DDG VDisk virtual drive displays in the client's Windows Explorer.	Office and non-Office documents are protected as .xen files based on policies set.
Cloud Encryption is <i>Off</i> Protected Office Documents is <i>On</i>	Office documents are protected based on policies. For more information, see <u>Set</u> <u>Security Policies to Protect Office Documents in Windows</u> . No DDG VDisk virtual drive is created. Non-Office documents are not impacted.	N/A
Both are <i>On</i>	Non-Office documents are protected as .xen files if in the DDG VDisk virtual drive. A DDG VDisk virtual drive displays in the client's Windows Explorer. Office documents have different levels of security based on policy. If protected, the Office document retains its extension in the cloud but unauthorized users cannot access it. Additional policies impact Office documents. For more information, see Set Security Policies to Protect Office Documents in Windows .	Non-Office documents are protected as .xen files. Office documents are protected based on Protected Office policies. For more information, see <u>Set Security Policies to Protect Office Documents in Mac</u> .
Neither is <i>On</i>	Files are not protected. If opened, content displays in cleartext.	Files are not protected. If opened, content displays in cleartext.

The Dell Server automatically updates profiles of cloud storage providers. For more information, see $\underline{\text{Cloud}}$ $\underline{\text{Profile Update}}$.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description
clouds; this maintains	ownership/control of all data e	ncrypted prior to being uploaded to supported public ncryption keys. The supported public cloud providers eDrive for Business, and Google Drive.
Cloud Encryption (Windows and Mac)	Off	On Off Toggle On to enable Cloud Encryption policies. If this policy is Off, no Cloud protection takes place, regardless of other policies.
Enable Access to Restricted File (Windows)	Not Selected	Selected Not Selected Applies only to Google Drive. Selected disables any Google Drive-created shortcuts to the web that Data Guardian cannot encrypt.
Enable In-App Feedback (Cloud) (Windows and Mac)	Not Selected	Selected Not Selected When selected, an end user can submit feedback and satisfaction ratings to Dell via a link within the client application to a web form.

Claud Starage Drataction	Ctuing	Chuina
Cloud Storage Protection Providers	String	String
(Windows and Mac)	Protect, Dropbox_V1	Profiles that Allow, Block, Protect, or Bypass these providers/connections. Protect: Allow the provider/connection,
	Protect,Box.net_V1	encrypt the files, and send audit events about file/folder activity.
	Protect, Chrome_V1*	Block: Block all access to the provider/connection. Allow: Allow the provider/connection to pass through without encrypting, but audit
	Protect,Firefox_V1*	file/folder activity. Bypass: Bypass the protection of the
	Protect,IE_V1*	provider/connection without encrypting or auditing. When this value is set, the cloud storage provider folder does not display in the DDG
	Protect, SkyDrive_V1	VDisk virtual drive on the client computer.
	Allow,BoxInstaller_V1	The format is: ProtectionLevel, ProfileName.
	Allow, SkyDriveInstaller_V1	ProtectionLevel options: Allow, Protect, Block, Bypass
	Protect, Flash_V1*	The Dell Server automatically checks for updated profiles of Cloud
	Protect, Java_V1*	storage providers supported with Data Guardian. When available, updated profiles are sent to Data Guardian clients after the
	Allow, TrendMicroProxy_V1	administrator commits policy changes. When the Pending Policy
	Allow,DropboxInstaller_V1	Changes value in the Remote Management Console is automatically incremented although an administrator has not modified policy
	Protect, OneDrive_For_Business_V1	values, at least one updated profile is available.
	Protect, Google_Drive_V1	The polling interval for Cloud storage provider profile updates is daily
	Allow,OneDriveForBusinessInstaller_V1 Allow,GoogleDriveInstaller_V1	at 12:30 a.m.
	Allow, Google Di Ivelistaliei _V I	
	*For these profiles, ProtectionLevel	
	settings must match.	
Dropbox Encrypt Personal	Selected	Selected
Folders	Solocicu	Not Selected
(Windows)		Selected encrypts personal cloud storage provider folders.
Dropbox Encrypt Personal	String	String
Folders Message		Message to display when Dropbox Encrypt Personal Folders is set to
(Windows)		Not Selected. This message is customizable by the Administrator.
Help File Visible	Selected	Selected
(Windows)		Not Selected
		Selected allows the registration help file to be visible in the provider folder.
		More
		Not Selected hides the help file, therefore, potential file sharers will not be redirected to the registration URL located at https:// <yoursecurityserver>.<domain>.com:8443/cloudweb/register.</domain></yoursecurityserver>
See <u>advanced settings</u>		
Policy	Default Setting	Description
		owerPoint, and Word) to be encrypted at the file level. de or outside the network.
Protected Office Documents	Off	On Off
(Windows and Mac)		Toggle <i>On</i> to provide users with a menu option for protecting Office
Note: Enabled only at the Enterprise level.		documents (.docx, .xlsx, .pptx, .docm, .xlsm, .pptm, and .pdf). On also allows you to enable other Protected Office policies. If this policy is Off, no Office-protected formatting takes place, regardless

		of other policies.
		of other ponoics.
See <u>advanced settings</u>		
Policy	Default Setting	Description
Mobile Client		
	mobile phones and tablets c, Google Drive, OneDrive,	access to encrypted content on supported public clouds, and OneDrive for Business.
Data Guardian	Off	Off
		Cloud Protection
		Office Protected Documents
		Both
		Select one option or <i>Both</i> to use Data Guardian with mobile clients. If this policy is <i>Off</i> , Data Guardian is not enabled for mobile clients, regardless of other policies.
Dropbox	Allow and Audit	Allow and Audit Allow and Protect Disallow
		Sets the status for Dropbox usage and protection.
Вох	Allow and Audit	Allow and Audit Allow and Protect Disallow
		Sets the status for Box usage and protection.
Google Drive	Allow and Audit	Allow and Audit Allow and Protect Disallow
		Sets the status for Google Drive usage and protection.
OneDrive	Allow and Audit	Allow and Audit Allow and Protect Disallow
		Sets the status for OneDrive usage and protection.
OneDrive for Business	Allow and Audit	Allow and Audit Allow and Protect Disallow
		Sets the status for OneDrive for Business usage and protection.
Apply Encryption to Root Data-Store Location	Selected	Selected Not Selected
		Selected encrypts personal cloud storage provider folders.
Geo-Fencing		
Enable Geo-Fencing	Not Selected	Selected Not Selected
		Selected allows only users in the region selected in the <i>Geo-Fencing Location</i> policy to access files.
Geo-Fencing Location	US and Canada	US Canada US and Canada
		Sets the location in which users can access files. The Enable Geo-Fencing policy must be Selected.
See <u>advanced settings</u>		

Policy	Default Setting	Description
clouds using a web-bas	sed client; this maintains ow	y encrypted prior to being uploaded to supported public vnership/control of all data encryption keys. The supported usiness, Box, SkyDrive, OneDrive for Business, and Google
Edit Permission	Selected	Selected Not Selected Selected allows users to edit files within the web client.
External User Edit Permission	Not Selected	Selected Not Selected Selected allows external users to edit files within the web client.
Main Title Image (Enterprise only)	Choose File button	Image or logo to display on the login page. Note: The image must be a .jpg of square dimensions with a maximum file size of 25 KB. If the image height and width dimensions are not equal, the displayed image is stretched.
Masthead (Enterprise only)	Choose File button	Image to display as the masthead on the login page. The image must be a .png file, 26x26 pixels.
Access Agreement (Enterprise only)	String	Agreement text to be displayed for users to accept before they are allowed to log in.
See <u>advanced settings</u>		
Policy	Default Setting	Description
Settings This technology enable	es/disables Data Guardian M	ac and Data Guardian Mobile access.
Allow Mac Data Guardian Activation	Not Selected	Selected Not Selected Not Selected Not Selected prevents Mac Data Guardian clients from being activated.
Allow Mobile Data Guardian Activation	Selected	Selected Not Selected Not Selected Not Selected prevents Mobile iOS or Android Data Guardian clients from being activated.

Advanced Data Guardian

Advanced Data Guardian policies are available for these populations:

- <u>Cloud Encryption</u> Enterprise, Endpoint Groups, and Endpoints
- <u>Protected Office Documents</u> Enterprise, Endpoint Groups, and Endpoints (The *Protected Office Documents* master policy, *Enable Callback Beacon*, and *Callback Beacon URL* policies are available at the Enterprise level only.)
- <u>Mobile Client</u> Enterprise, Domain, User Groups, and User
- Web Portal:

- Node level policies are only available at the Enterprise level and require a node restart.
- Lock Account is only available at the User level.

See <u>Data Guardian policy groups</u> to determine which policies to enable.

The Dell Server automatically updates profiles of cloud storage providers. For more information, see $\underline{\text{Cloud}}$ $\underline{\text{Profile Update}}$.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description
clouds; this maintains ownership/c	pe automatically encrypted prior to being ontrol of all data encryption keys. The Box, SkyDrive, OneDrive for Business, a	supported public cloud providers
Cloud Encryption (Windows and Mac)	On	On Off Toggle On to enable Cloud Encryption policies. If this policy is Off, no Cloud Encryption protection takes place, regardless of other policies.
iOS Document Handling (Windows)	Disallow	Allow Disallow Use this policy to allow or disallow iOS clients to open documents with external applications.
Help File Name (Windows)	How to access secure files.html	String Name of the registration help file. The file name format is helpfilename.html.
Help File Contents (Windows)	#TML html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1- strict.dtd" <html lang="en" xml:lang="en" xmlns="http://www.w3.org/1999/xhtml"> <head> <title>How to Access Secure Files</title> <style type="text/css">P { text-align: center }</style> </head> <head> <head> </head> <head> The files in this folder have been secured using %PRODUCTNAME%. To view the files in the folder, you need to register with the owner of the files. <a>br /> To view the files in the folder, you need to register with the owner of the files. <a>br /> To view the files in the folder, you need to register with the owner of the files. <a>br /> <br< td=""><td></td></br<></br></br></br></br></br></head></head></html>	

	href="%ACTIVATIONURL%web/register">Click Here To Register 	
Excluded Folders (Windows)	String %windir% %SystemDrive%\\$recycle.bin %ProgramFiles% %SystemDrive%\users*\appdata %ProgramFiles(x86)% %ProgramData%\WebEx	String Folders excluded from encryption, separated by carriage returns. A "!" before the variable means to exclude exactly that directory. Folders without the "!" are partial matches, so everything that starts with the path will be excluded.
Excluded Files (Windows)	String C3901A99-1A1B-55B4-AE11-891207B1D341.xen desktop.ini thumbs.db creddb.cef -\$** -*.tmp .DDPCE.attr *.lnk	String Files excluded from encryption, separated by carriage returns.
Server Polling Interval (Windows and Mac)	360 minutes	1-1440 minutes How often, in minutes, the client checks in with the Dell Server for updates. Default is 360 minutes (6 hours).
Software Update Server URL (Windows)		String Use this policy if software updates for users will be located at an alternate Server URL.
Obfuscate Filenames (Windows and Mac)	Extension only	Extension only Guid Select Extension only to display the actual filename with the ".xen" extension. Select Guid to display a scrambled filename with the ".xen" extension. When this policy is changed, Cloud Encryption maintains the previous option for any existing folders. Any new folders created will have the new policy applied. To use the new policy with the old files, cut and paste files to a new folder.
Folder Management Enabled (Windows)	Not Selected	Selected Not Selected Selected allows management of encryption on a folder-by-folder basis within the sync client folders. For example, if users uploaded files before installing Data Guardian, you can provide temporary Folder Management rights to some users. To provide temporary Folder Management rights to a user: 1. Set this policy for the specific endpoint to Selected. 2. Instruct the user to manually turn on encryption for the pre-

See <u>basic settings</u>		existing folder. The files will be encrypted when the files sync to the cloud. 3. After the folders are encrypted, set the Folder Management Enabled policy for the endpoint back to Not Selected.
Policy	Default Setting	Description
	ocuments (Excel, PowerPoint, and Wor erever it goes, inside or outside the ne	
Protected Office Documents (Basic - Windows and Mac) Note: Enabled only at the Enterprise level.	Off	On Off Toggle On to provide users with a menu option for protecting Office documents (.docx, .xlsx, .pptx, .docm, .xlsm, .pptm, and .pdf). On also allows you to enable other Protected Office policies. If this policy is Off, no Office-protected formatting takes place, regardless of other policies.
Force Protected Files Only (Windows)	Not Selected	Selected Not Selected Selected forces users to save Office files as protected documents. It also enables a sweep on the clients' internal fixed drives to locate new Office files and change them to Protected mode. It disables the Share option (Office 2013 and 2016) and Save & Send option (Office 2010). If Not Selected, users have some options in determining whether to save a file as protected or unprotected.
Enable Time To Live and Embargo Control (Windows)	Not Selected	Selected Not Selected Selected allows users to specify dates for when protected Office files are accessible to external users.
On Screen Watermark	Not Selected	Selected Not Selected Selected displays a watermark on the client computer screen when any protected Office file is open.
Print Control (Windows and Mac)	Allowed	Allowed Watermark Disabled Controls the Print function of protected Office documents (.docx, .xlsx, .pptx, .docm, .xlsm, .pptm, and .pdf): • Allowed - Print option is enabled for protected Office documents. • Watermark - Print option is enabled for protected Office documents but a watermark with the user's name, domain name, and computer ID displays on each page. Unprotected documents

		print without the watermark. Disabled - Print option is enabled. However, if the user clicks Print for a protected Office document or when a protected Office document is open in Acrobat Reader DC, a toaster states that Print is not allowed. In addition, the attempt to print is an audit event. Note: Users can print unprotected Office documents. Note: If Force Protected Files Only is Not Selected, the Print option is available for all unprotected Office documents.
Export Control (Windows)	Allowed	Allowed Watermark Disabled For Office 2013 and higher, controls the Export function of protected Office documents (.docx, .xlsx, .pptx, .docm, .xlsm, .pptm, and .pdf): Allowed - This varies based on whether Force Protected Files Only is Selected. For detailed information, see Set Security Policies to Protect Office Documents. Watermark - Export is disabled. See Protected Export. Disabled - Export is disabled for protected Office documents. Users can export unprotected Office documents. Note: For Office 2010, see Save and Send.
Protected Office Clip Board Unauthorized Text (Windows)	Pasting of protected data is not allowed on this computer. Please contact your administrator for assistance.	String to display when a user attempts to paste secure data from a protected document into an unprotected location.
Protected Office Document Tamper Prompt (Windows)	The file has been tampered with. Contact the author or your administrator.	String to display if a user encounters an Office-protected document that is identified as having been tampered with.
Offline Key Generation Escrow Reminder Delay (Windows)	3 days	1-14 days. 3 days default. Specifies the number of days the client will wait while not being able to escrow key material prior to warning the end user.
Offline Key Generation Escrow Reminder Text (Windows)	Data Guardian has not been able to contact the Dell Server for several days. Please ensure that you are connected to the network. If you are connected to the network, contact your Administrator.	String to display when the end user is warned that the client cannot escrow key material.
Protected Office Documents Cover Page Notice (Windows and Mac)	String	Enterprise-defined text to be displayed on Office-protected cover pages. Maximum number of character is 4096. See Set Cover Page Policies. Note: If line breaks are entered as part of the text, they are automatically converted to spaces to ensure the text displays correctly in all Office applications.
Protected Office Documents Cover Page Corporate Logo	Browse button and Save Logo File button	Image to be displayed on the document cover page. See <u>Set Cover Page Policies</u> .

(Windows and Mac)		Note: The logo image must be a .jpg of square dimensions with a maximum file size of 25 KB. If the image height and width dimensions are not equal, the displayed image is stretched.
Protected Office Documents Cover Page Dell Server URL (Windows and Mac)	String	Dell Server URL that will be displayed on the cover page.
Enable Callback Beacon	Not Selected	Selected inserts a callback beacon into every protected Office file.
		To use the callback beacon, the following requirements must be met:
		The beacon server must be installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Virtual Quick Start Guide and Installation Guide. An administrator must have enrolled to receive Product
		Notifications. • The Callback Beacon URL policy is set.
Callback Beacon URL	String	Specifies the URL to be used when the callback beacon is inserted into Office-protected files. The URL, for example http://server.domain.com:8446, must be externally available, hosted on an HTTP server that is installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Virtual Quick Start Guide and Installation Guide. The Enable callback beacon policy must be Selected.
Hidden Audit Trail within Protected Office Document (Windows and Mac)	Selected	Enables a hidden watermark audit trail within a Protected Office Document. See also for Mobile and Web Client. For information on decrypting protected documents to view audit data, see the Data Guardian in the <i>Recovery Guide</i> . See also web_client and Mobile.
On Screen Watermark	Not Selected	Selected Not Selected Selected displays a watermark on the mobile client screen when any protected Office file is open.
See <u>basic settings</u>		
Policy	Default Setting	Description
Mobile Client		
This technology allows mobile phones and tablets access to encrypted content on supported public clouds,		

including Dropbox, Box, Google Driv	ve, OneDrive, and OneDrive for Busir	ness.
Enable Callback Beacon	Not Selected	Selected inserts a callback beacon into every protected Office file.
		To use the callback beacon, the following requirements must be met:
		The beacon server must be installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Virtual Ouick Start Guide and Installation Guide.
		 An administrator must have enrolled to receive <u>Product</u> <u>Notifications</u>.
		The Callback Beacon URL policy is set.
Callback Beacon URL	String	Specifies the URL to be used when the callback beacon is inserted into Office-protected files.
		The URL, for example http://server.domain.com:8446, must be externally available, hosted on an HTTP server that is installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Virtual Quick Start Guide and Installation Guide.
		The <i>Enable callback beacon</i> policy must be Selected.
Hidden Audit Trail within Protected Office Document	Selected	Enables a hidden watermark audit trail within a Protected Office Document. For information on decrypting protected documents to view audit data, see the Data Guardian in the <i>Recovery Guide</i> . See also Windows and Mac and web_client.
		Selected Not Selected
On Screen Watermark	Not Selected	Selected displays a watermark on the mobile client screen when any protected Office file is open.
		1-1440 minutes
Server Polling Interval	360 minutes	How often, in minutes, the client checks in with the Data Guardian for updates. Defaults 360 minutes (6 hours).
Workspace Access		
		4 or 6
Application pass code (PIN)	4	Required number of characters for Workspace PIN.
		4 - 16
Set maximum failed login attempts	8	Define the number of PIN login failures. Then set the policy for action to take on the Workspace after the failed attempts.
Set action on maximum failed login attempts	Timeout for 1 minute	Timeout for 1 minute Timeout for 5 minutes

		Lock Workspace Wipe Workspace Data
		The action to take after the maximum failed login attempts are reached.
		2, 5, 20, 30, or 60 minutes
Set inactivity lock duration	5	Configure the amount of inactivity time that can elapse before the end user must re-enter a PIN.
		Selected Not Selected
Set copy/paste capabilities	Not Selected	Selected allows users to copy and paste outside of the workspace.
		Selected Not Selected
Allow Non-Genuine device OS	Not Selected	Selected allows a jailbroken iOS device or a rooted Android device.
Cover Page	'	'
Protected Office Documents Cover Page Acceptance Text	String	Enterprise-defined text to be displayed on Office-protected cover pages. See <u>Set</u> <u>Cover Page Policies</u> .
		Image to be displayed on the document cover page. See <u>Set Cover Page Policies</u> .
Protected Office Documents Cover Page Corporate Logo	Browse button and Save Logo File button	Note: The logo image must be a .jpg of square dimensions with a maximum file size of 25 KB. If the image height and width dimensions are not equal, the displayed image is stretched.
Protected Office Documents Cover Page Dell Server URL	String	Dell Server URL that will be displayed on the cover page.
Protected Office Document Tamper Prompt	The file being opened appears to have been tampered with and can no longer be validated. Please contact the original author or your administrator.	Text to be displayed if a user encounters an Office Protected Document that has been determined was tampered with.
Web Browser		
Set a default homepage	http://www.dell.com	Homepage default for the Workspace browser.
Pre-configure bookmarks		Pre-configure bookmarks.
See <u>basic settings</u>		
Policy	Default Setting	Description
clouds using a web-based client; th	be automatically encrypted prior to be his maintains ownership/control of all c , Dropbox for Business, Box, SkyDrive,	lata encryption keys. The supported
Lock account		Selected Not Selected
(displays only on a User Detail page)	Not Selected	Selected prevents the user from logging in to the web client.
Protected Office Documents Cover Page EULA	String	Text to be displayed on Protected Office Documents Cover Page.
		The text in this policy is translatable.

Protected Office Documents Cover Page Corporate Logo Choose File button Choose File butto			
Selected inserts a callback beacon into every protected Office file.		Choose File button	cover page. Note: The image must be a .jpg of square dimensions with a maximum file size of 25 KB. If the image height and width dimensions are not equal, the displayed
every protected Office file. To use the callback beacon, the following requirements must be met: The beacon server must be installed as part of Front End Server/Proxy Mode Installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Installation and Installation Guide or Security Management Server Installation and Installation Committee on the callback Beacon URL policy is set. The URL, for example http://server.domain.com:8446, must be externally available, bosted on an HTTP server that installed as part of Front End Server that is installed as part of Front End Serv		String	
callback beacon is inserted into Office- protected files. The URL, for example http://server.domain.com:8446, must be externally available, hosted on an HTTP server that is installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Virtual Quick Start Guide and Installation Guide or Security Management Server Virtual Quick Start Guide and Installation Guide. The Enable callback beacon policy must be Selected. Enables a hidden watermark audit trail within a Protected Office Document. For information on decrypting protected documents to view audit data, see the Data Guardian in the Recovery Guide. See also Windows, and Mac and Mobile. Selected On Screen Watermark Not Selected Not Selected Selected displays a watermark on the mobile client screen when any protected Office file is open.	Enable Callback Beacon	Not Selected	very protected Office file. To use the callback beacon, the following requirements must be met: The beacon server must be installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Virtual Quick Start Guide and Installation Guide. An administrator must have enrolled to receive Product Notifications. The Callback Beacon URL policy
Hidden Audit Trail within POD Selected within a Protected Office Document. For information on decrypting protected documents to view audit data, see the Data Guardian in the Recovery Guide. See also Windows and Mac and Mobile. Selected Not Selected Not Selected Selected displays a watermark on the mobile client screen when any protected Office file is open.	Callback Beacon URL	String	callback beacon is inserted into Office-protected files. The URL, for example http://server.domain.com:8446, must be externally available, hosted on an HTTP server that is installed as part of Front End Server/Proxy Mode installation. Port 8446 must be open. For more information, see the Security Management Server Installation and Migration Guide or Security Management Server Virtual Quick Start Guide and Installation Guide. The Enable callback beacon policy must be
On Screen Watermark Not Selected Selected displays a watermark on the mobile client screen when any protected Office file is open.	Hidden Audit Trail within POD	Selected	within a Protected Office Document. For information on decrypting protected documents to view audit data, see the Data Guardian in the <i>Recovery Guide</i> . See also
See <u>basic settings</u>	On Screen Watermark	Not Selected	Not Selected Selected displays a watermark on the mobile client screen when any protected
	See <u>basic settings</u>		

Set Cover Page Policies

You can set policies to customize a cover page for protected Office documents.

• Internal users - The cover page displays for the following:

- Protected Office Documents policies have been enabled but the user has not yet installed or activated the Data Guardian.
- User opens a protected Office document from the cloud.
- User downloads a protected Office document to a device that does not have Data Guardian installed.
- Unauthorized users The cover page displays, and the person cannot access the content.

To customize the cover page for protected Office documents, you can use these <u>Advanced Data Guardian</u> policies:

- Protected Office Documents Cover Page Notice
- Protected Office Documents Cover Page Corporate Logo
- Protected Office Documents Cover Page Dell Server URL

Cloud Profile Update

The Security Management Server can automatically check for updated profiles of cloud storage providers supported with Data Guardian.

To configure Dell Server to automatically check for updated profiles, follow these steps:

- 1. Navigate to <Security Server install dir>\conf\ and open the application.properties file.
- 2. Locate cloud.profile.updater.enabled and set the value to true.

When update is enabled and updated profiles are available, the profiles are sent to Data Guardian clients after the administrator commits policy changes. When the Pending Policy Changes value in the Remote Management Console is automatically incremented although an administrator has not modified policy values, at least one updated profile is available.

The polling interval for cloud storage provider profile updates is daily at 12:30 a.m.

Set Policies to Protect Office Documents in Windows

For enhanced security on Office documents (.docx, .pptx, .xlsx, .docm, .pptm, .xlsm, or .pdf), you can implement Data Guardian's Protected Office mode for internal users.

You can open a protected .pdf file with:

- Adobe Acrobat Reader DC
- Microsoft Word from a local drive or from the network

Note: You cannot map a network drive to a local drive to open a .pdf.

If an unauthorized user tries to access a protected file, the file remains encrypted, for example when the file is:

- Attached in an email
- Moved in a browser if the user selects *Move* in a cloud sync client
- Moved in File Explorer
- · Stored on removable media

Set Policies for Protected Office Documents

To set Protected-mode policies on Office documents for internal users:

- 1. Log in to the Remote Management Console.
- 2. In Populations > Enterprise, under the Data Guardian technology group, click the Protected Office Documents policy group.
- 3. Determine the level of security for Office documents:
 - Opt-in mode (allows users the option to choose which Office documents to protect): Toggle the *Protected Office Documents* policy to On.
 - Force-Protected mode (ensures protection of all Office documents):
 - At the Enterprise level, toggle the Protected Office Documents policy to On.
 - At the Enterprise, Endpoint Groups, or Endpoints level, click Show advanced settings and select the Force Protected Files Only check box.

Note: For Endpoint Groups or Endpoints, click an option to access the Detail page's Security Policies tab.

- 4. Set additional *Protected Office Documents* policies based on security requirements for Office documents, for example, Print, Export, and Embargo.
- To view protected Office documents in mobile devices, see <u>Set Policies to Protect Office Documents</u> in Mobile Devices.

Determine Impact on Windows Users for Opt-in or Force Protected Modes

When you set *Protected Office Documents* policies and the client is activated, the *File* menu for Office documents displays additional options and enables/disables some options.

Dell recommends that you test policy updates on a test group of endpoints before applying them on a large scale.

This table provides an overview of the security impact on the Office File menu options for internal users based on which policies you activate:

- Protected Office Documents (Opt-in mode user has the option to choose which Office documents to protect. Both Save As and Protected Save As are enabled).
- Protected Office Documents and Force Protected files only (Force-Protected mode higher security) - The Force Protected policy enables a sweep on the clients' internal fixed drives to locate unprotected Office files and change them to Protected mode. It disables Save As, the Share option (Office 2013 and 2016), and Save & Send option (Office 2010). It enables Protected Save As.

For Data Guardian to sweep the Office documents, the user must log in and be connected to the network. The sweep acquires keys from the server for ten unprotected Office files at a time. If fewer than ten unprotected Office files require keys, the sweep waits 30 seconds for more files but then requests the keys.

Note: Sweep ignores network file share, optical, and removable drives.

Note: On the DDG VDisk virtual drive, if the user right-clicks to create an Office document, it is saved as a .xen file. The user must manually access the File menu option and save the document as **Protected**. The Office document retains its file extension, such as .docx or .pdf, in the cloud but is encrypted.

Note: For Office-protected documents, users cannot run macros in macro-enabled documents.

File menu option for Office documents	Policy for Opt-in mode: Protected Office Documents		Policies for Force-Protected mode: Protected Office Documents Force Protected files only
	Protected Office documents	Unprotected Office documents	All Office documents
Open	Files open as usual.	Files open as usual.	Unprotected documents open in read- only mode. See Save and Protected Save As.
Save	Save As window opens. The only	User clicks Save: the file is saved but not in protected mode. Save as type field - If this is the first time to save the file, the Save As window opens and this field has the standard list of options.	User clicks Save: the file is protected. If the file is in read-only mode, the Save As window opens. The only option in the Save as type field is Protected (Documents, Presentation, or Workbook). User opens and saves a .xen file - the only option in the Save as type field is Protected. The .xen file is removed from the cloud.
Save As	Enabled for user - saves as unprotected	Enabled for user- saves as unprotected	Disabled for user - the only option is Protected Save As.
Protected Save As	Enabled for user Save as type field - the only option is Protected (Documents, Presentation, or Workbook).	Enabled for user Save as type field - the only option is Protected (Documents, Presentation, or Workbook).	Enabled for user Save as type field - the only option is Protected (Documents, Presentation, or Workbook).

This table provides an overview of additional Protected Office policy settings and what displays in the Office File menu.

File menu option for Office documents	Policy enabled (some protection options for user): Protected Office Documents		Policies enabled (higher security): Protected Office Documents Force Protected files only
	Protected Office documents	Unprotected Office documents	With Force Protected enabled, the user is forced to save any Office document as Protected.
Print	Enabled for user For Office-protected documents, the Print_Control policy determines how this function behaves.	Enabled for user	Enabled for user For Office-protected documents, the Print_Control policy determines how this function behaves.
Export (Office 2013 and higher)	Office 2013/2016 and Export Control policy: Allowed: Enabled for user Watermark: Export is disabled. See Protected Export. Disabled: Disabled for user	Enabled for user	Office 2013/2016 and Export Control policy: • Allowed: Export option is enabled for user. However, with Force Protected enabled and a higher level of security, Dell recommends setting this policy to Watermark or Disabled. With Allowed, users can save as another file type, which could leave a document unprotected.

			 Watermark: Export is disabled. See Protected Export. Disabled: Disabled for user
Protected Export (Office 2013 and higher) This option displays in the File menu only if the Export Control policy is set to Watermark.	Office 2013/2016 and Export Control policy: • Watermark: The user can export only to a PDF, but a watermark with their name, domain name, and computer ID displays on each page. Note: Export is disabled for user.		Office 2013/2016 and Export Control policy: • Watermark: The user can export only to a PDF, but a watermark with their name, domain name, and computer ID displays on each page. Note: Export is disabled for the user.
Save and Send (Office 2010) (Instead of Export)	Enabled for user		Disabled for user Note: To export to a PDF, the user can use the Print menu (if <u>Print Control</u> policy is set to Allowed) to print to a PDF.
Share (Office 2013 and higher)	Disabled for protected Office documents Enabled for unprotected documents	Enabled for user	Disabled for user

This table provides an overview of Protected Office policy settings and other menu options.

option for	Policy enabled (some protection options for user): Protected Office Documents		Policies enabled (higher security): Protected Office Documents Force Protected files only
	Protected Office documents	Unprotected Office documents	With Force Protected enabled, the user is forced to save any Office document as Protected.
		as usual.	Copy/Paste only to a protected Office document or protected .pdf. However, no unprotected PDFs can be open in Adobe Acrobat Reader DC.

Enable Both Cloud Encryption and Protected Office Documents

If you enable both policy groups, Protected Office documents differ from non-Office documents in some areas:

- If the *Cloud Storage Protection Providers* policy is set to *Allow* and does not encrypt non-Office files, protected Office documents still maintain any protection status.
- If the Excluded Folders policy excludes a particular folder from encryption, protected Office documents still maintain any protection status if copied to those folders.

Return to **Data Guardian**.

Set Policies to Protect Office Documents in Mac

For enhanced security on Office documents (.docx, .pptx, .xlsx, .docm, .pptm, .xlsm, or .pdf), you can implement Data Guardian's Protected Office mode. Protected Office documents are uploaded to the cloud, not as .xen files, but with their file extensions (.docx, .pptx, .xlsx, .docm, .pptm, .xlsm, or .pdf). However, the Office documents are encrypted. If opened or downloaded to a device that does not have Data Guardian installed, only a cover page displays with instructions on how to obtain validated access. An authorized user can obtain installation or activation information from the enterprise. An unauthorized user cannot access the protected data.

Note: The cloud storage provider is optional. Protected Office documents and .xen files can be opened from local storage.

Set Protected Office Document Policies

To set Protected-mode policies on Office documents for internal users:

- 1. Log in to the Remote Management Console.
- 2. In Populations > Enterprise, under the Data Guardian technology group, click the Protected Office Documents policy group.
- 3. Toggle the *Protected Office Documents* policy to **On**.
- 5. **Note**: The *Force Protected files only* policy is not available for Mac.
- 4. At the Enterprise level, under Data Guardian, click Settings.
- 5. Ensure the Allow Mac Data Guardian Activation check box is selected.
- 6. Set additional Protected Office policies at the Enterprise, Endpoint Groups, or Endpoints levels.

Note: For Endpoint Groups or Endpoints, click an option to access the Detail page's Security Policies tab.

7. To view protected Office documents in mobile devices, see <u>Set Policies to Protect Office Documents in Mobile Devices</u>.

Return to **Data Guardian**.

Set Policies to Protect Office Documents in Mobile Devices

For enhanced security on Office documents (.docx, .pptx, .xlsx, .docm, .pptm, .xlsm, or .pdf), you can implement Data Guardian's Protected Office mode. Protected Office documents are uploaded to the cloud, not as .xen files, but with their file extensions (for example, .docx or .pdf). However, the Office documents are encrypted.

Set Protected Office Document Policies

To set Protected-mode policies on Office documents:

- 1. Log in to the Remote Management Console.
- 2. In Populations > Enterprise, under the Data Guardian technology group, click the Protected Office Documents policy group.
- 3. Toggle the *Protected Office Documents* policy to **On**.
- 5. Note: The Force Protected files only policy is not available for mobile.
- 4. At the Enterprise level, under Data Guardian, click Settings.
- 5. Ensure the Allow Mobile Data Guardian Activation check box is selected.
- 6. Set additional Protected Office policies at the Enterprise, Domains, User Groups, or Users levels.

Note: For Domains, User Groups, or Users, click an option to access the Detail page's Security Policies tab.

Set Policies to Protect Office Documents on the web client

For enhanced security on Office documents (.docx, .pptx, .xlsx, .docm, .pptm, .xlsm, or .pdf), you can implement Data Guardian's Protected Office mode for internal users.

Note: You can open a protected .pdf file with Adobe Acrobat Reader DC or Microsoft Word.

Set Protected Office Document Policies

To set Protected-mode policies on Office documents:

- 1. Log in to the Remote Management Console.
- 2. In Populations > Enterprise, under the Data Guardian technology group, click the Protected Office Documents policy group.
- 3. Toggle the Protected Office Documents policy to On.
- 4. In the <u>Web_Portal</u> policy group or <u>Global Settings</u>, set additional policies at the Enterprise, Domains, User Groups, or Users levels. Some polices are set at the Enterprise (node level) only.

Note: For Domains, User Groups, or Users, click an option to access the Detail page's Security Policies tab.

Removable Media Encryption

Removable Media Encryption

A note about Removable Storage policies: Encryption External Media for Mac policies are device-based policies. This is different behavior than Encryption External Media for Windows, which are user-based.

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description	
Windows Media Encryption This technology works on Windows computers using Dell Encryption External Media to encrypt data on removable devices, which can be accessed using a user-defined password. These policies allow configuration of the Encryption External Media password requirements and the removable media allowed.			
Windows Media Encryption	Off	This policy must be selected to use all other Removable Storage policies. Not Selected means that no encryption of removable storage takes place, regardless of other policy values.	
EMS Scan External Media	Not Selected	Selected forces a scan of removable storage every time it is inserted.	
		When this policy is Not Selected and the Windows Media Encryption policy is Selected, only new and changed files are encrypted.	
		More	
		A scan occurs at every insertion so that any files added to the removable storage without authenticating can be caught. Files can be	

		added to the removable storage if authentication is declined, but encrypted data cannot be accessed. The files added will not be encrypted in this case, so the next time removable media is authenticated (to work with encrypted data), any files that may have been added are scanned and encrypted.
EMS Access to unShielded Media	Read Only	Block, Read Only, Full Access Note that this policy interacts with the Port Control System - Storage Class: External Drive Control policy. If you intend to set this policy to Full Access, ensure that Storage Class: External Drive Control is not set to Read Only or Blocked. More When this policy is set to Block Access, you have no access to removable storage unless it is encrypted. Choosing either Read-Only or Full Access allows you to decide what removable storage to encrypt. If you choose not to encrypt removable storage and this policy is set to Full Access, you have full read/write access to removable storage.
		storage. If you choose not to encrypt removable storage and this policy is set to Read-Only, you can read or delete existing files on the unencrypted removable storage, but files cannot be edited on, or added to, the removable storage.
		Block access to any external media that is less than 55 MB and thus has insufficient storage capacity to host external media encryption (such as a 1.44MB floppy disk). More All access is blocked if Windows Media Encryption and this policy are both Selected.
EMS Block Access to UnShieldable Media	Selected	If Windows Media Encryption is Selected, but this policy is Not Selected, data can be read from the unencryptable external media, but write access to the media is blocked.
		If Windows Media Encryption is Off, then this policy has no effect and access to unencryptable external media is not impacted.
See <u>advanced settings</u>		
Policy	Default Setting	Description
Mac Media Encryption This technology works on Mac computers using Dell Encryption External Media to encrypt data on removable devices, which can be accessed using a user-defined password. These policies allow configuration of the Encryption External Media password requirements and the removable media allowed.		
Mac Media Encryption	Off	Toggle On to enable Mac Removable Media Encryption policies. If this policy is toggled to OFF, no Mac Removable Media Encryption takes place, regardless of other policies.
		HFS Plus is supported and must be enabled. For instructions to enable HFS Plus, see the Encryption Enterprise for Mac Administrator

		1
		Guide. Media containing Time Machine backups are not supported. However, media recognized by computers as Time Machine backup destinations are automatically whitelisted, to allow backups to continue. All other removable media with Time Machine backups are handled based on EMS Access to unShielded Media and EMS Block Access to UnShieldable Media policies.
EMS Scan External Media	Not Selected	Selected allows Encryption External Media to scan removable storage every time removable storage is inserted. When this policy is Not Selected and the Windows Media Encryption policy is Selected, Encryption External Media only encrypts new and changed files. More A scan occurs at every insertion so that Encryption External Media can catch any files added to the removable storage without authenticating. You can add files to the removable storage if you decline to authenticate, but you cannot access encrypted data. The files added will not be encrypted in this case, so the next time you authenticate to the removable media to work with encrypted data, Encryption External Media scans it and encrypts any files that may have been added without encryption.
EMS Access to unShielded Media	Read Only	When this policy is set to Block Access, you have no access to removable storage unless it is encrypted. Choosing either Read-Only or Full Access allows you to decide what removable storage to encrypt. If you choose not to encrypt removable storage and this policy is set to Full Access, you have full read/write access to removable storage. If you choose not to encrypt removable storage. If you choose not to encrypt removable storage and this policy is set to Read-Only, you cannot read or delete existing files on the unencrypted removable storage, but the Encryption client will not allow any files to be edited on, or added to, the removable storage unless it is encrypted.
EMS Block Access to UnShieldable Media	Selected	Block access to any removable storage that is less than 55 MB and thus has insufficient storage capacity to host a Removable Media Encryption client (such as a 1.44MB floppy disk). All access is blocked if Encrypt External Media and this policy are both True. If Encrypt External Media is True, but this policy is False, data can be read from the unencryptable removable storage, but write access to the media is blocked. If Encrypt External Media is False, then this policy has no effect and access to unencryptableremovable storage is not impacted.

See <u>advanced settings</u>		
Policy	Default Setting	Description
Media Encryption Setting This technology allows de	s efinition of what media encryption ev	ents to retain in logs.
		"security", "fail", "30"
		"security", "success", "30"
		"application", "error", "30"
		"application", "warn", "15"
		"application", "info", "5"
		"application", "debug", "5"
		Defines the amount of time (in days) that Encryption External Media, HCA, and PCS event types are maintained in the Server event log.
		Each event type is defined by category and level. You may set different retention times for each event level in each category.
Event Retention		The "Security" category represents events related to user authentication, authorization, or encryption. This includes events for Dell-encrypting devices, updating security policies, or failed authentication attempts. "Security" events are further differentiated by a "fail" or "success" indicating the outcome of the event.
		The "Application" category (application type event, rather than a security type event) represents events related to general application actions. These events are further differentiated by a set of severity levels - "error", "warn", "info", and "debug". You should use longer retention times for more severe levels.

Removable Media Policies that Require Logoff

- Windows Media Encryption
- EMS Scan External Media
- EMS Encryption Algorithm
- EMS Exclude CD/DVD Encryption
- EMS Data Encryption Key

Advanced Removable Media Encryption

A note about Removable Storage policies: Encryption External Media for Mac policies are device-based policies. This is different behavior than Encryption External Media for Windows, which are user-based.

Policy Default Setting Description

Windows Media Encryption
This technology works on Windows computers using Dell Encryption External Media to encrypt data on removable devices, which can be accessed using a user-defined password. These policies allow configuration of the Encryption External Media password requirements and the removable media allowed.

3.		
Windows Media Encryption	Off	This policy must be selected to use all other Removable Storage policies. Not Selected means that no encryption of removable storage takes place, regardless of other policy values.
EMS Exclude CD/DVD Encryption	Not Selected	False encrypts CD/DVD devices.
EMS Allow Read-access to unShielded Media (5.4.x Only)	Selected	This policy applies to 5.4.x Windows Encryption clients only. More If an end-user chooses not to encrypt media and this policy is set to True, they will be able to read or delete existing files on the media that is not Dell-encrypted, but the Encryption client will not allow any files to be edited on or added to the removable storage unless it is Dell-encrypted.
EMS Encryption Algorithm	AES256	AES 256, AES 128, 3DES Encryption algorithm used to encrypt removable storage. Encryption algorithms in order of speed, fastest first, are AES 128, AES 256, 3DES.
EMS Data Encryption Key	User Roaming	Common, User, User Roaming Choose a key to be used by the Encryption client to encrypt all data encrypted by the Encryption External Media. More You cannot save a policy where this policy has the same value as either User Data Encryption Key policy or Application Data Encryption Key policy, the error message Policy Constraint Violation: The value for EMS Data Encryption Key conflicts with User Data Encryption Key and/or Application Data Encryption Key will display.
EMS Automatic Authentication	Disabled	Disabled, Local, Roaming Local automatic authentication allows the encrypted media to be automatically authenticated when inserted in the originally encrypting computer when the owner of that media is logged in. When automatic authentication is Disabled, users must always manually authenticate to access encrypted media. Not Selecting Roaming automatic authentication helps to prevent users from forgetting their password when they take the media home or share it with a colleague. Not selecting Roaming automatic authentication also promotes a sense of awareness from a security perspective for users that the data being written to that media is protected.
EMS Access Encrypted Data on unShielded Device	Selected	Selected allows the user to access encrypted data on removable storage whether the endpoint is Dell-encrypted or not. More When this policy is False, the user will be able to work with encrypted data when logged on to any encrypted endpoint, regardless of the Security Management Server the user activated against. The user will not be able to work with encrypted data using any device that is not Dell-encrypted.
EMS Device Whitelist		String - Maximum of 300 devices with a maximum of 500 characters per PNPDeviceID. Maximum of 4096 total characters allowed. "Space" and "Enter" characters used count in the total characters used. This policy allows the specification of removable storage devices to exclude from Encryption External Media encryption [using the removable storage device's Plug and Play device identifier (PNPDeviceID)], thereby allowing users full access to the specified removable storage devices. More This policy is available on an Enterprise, Domain, Group, and User level. Note that local settings override inherited settings. If a user is in more than one group, all EMS Device Whitelist entries, across all Groups, apply. Note: This policy is particularly useful when using removable storage devices

which provide hardware encryption. However, this policy should be used with caution. This policy does not check whether external media devices on this list provide hardware encryption. Whitelisting removable storage devices which do not have hardware encryption will not have enforced security and will not be protected.

For example, the Kingston® DataTraveler® Vault Privacy model enforces that encryption is enabled to use the device. However, the Kingston DataTraveler Vault model has an unsecured partition and a secured partition. Because it is the same physical removable storage device with only one PNPDeviceID, the two partitions cannot be distinguished, meaning that whitelisting this particular removable storage device would allow unencrypted data to leave the endpoint.

Additionally, if an removable storage device is protected by EMS and subsequently added to the EMS Device Whitelist policy, it remains encrypted and requires a reformat of the removable storage device to remove encryption.

The following is an example of a PNPDeviceID, which contains the manufacturer identifier, product identifier, revision, and hardware serial number:

USBSTOR\DISK&VEN_KINGSTON &PROD_DTVAULT_PRIVACY& REV 104\07005B831A0004B4&0

To whitelist a removable storage device, provide a string value which matches portions of the device's PNPDeviceID. Multiple device PNPDeviceIDs are allowed.

For example, to whitelist all Kingston DataTraveler Vault Privacy models, input the string:

PROD DTVAULT PRIVACY

To whitelist both models of Kingston DataTraveler, the Vault and Vault Privacy models, input the string:

PROD_DTVAULT_PRIVACY; PROD_DT_VAULT

Note that space characters are considered part of the substring to match to a PNPDeviceID. Using the previous PNPDeviceID as an example, a space before and after the semicolon would cause neither of the substrings to be matched, because the space character is not part of the PNPDeviceID.

Instructions..

To find and edit the PNPDeviceID for removable storage:

- 1. Insert the removable storage device into an encrypted computer.
- 2. Open the EMSService.log in C:\Programdata\Dell\Dell Data Protection\Encryption\EMS.
- 3. Find PNPDeviceID= and enter the applicable values, explained below.

For example:

14.03.18 18:50:06.834 [I] [Volume "F:\"] PnPDeviceID = USBSTOR\DISK&VEN_SEAGATE &PROD_USB &REV_0409\2HC015KJ&0

Specify the following:

VEN=Vendor; Green highlighted text represents the vendor's devices to be excluded

PROD=Product/Model Name; Blue highlighted text also excludes all of Seagate's USB drives; a value represented by green highlighted text must precede this value

REV=Firmware Revision; Gray highlighted text also excludes the specific model being used; values represented by green and blue highlighted text must precede this value

Serial number (in this example); Yellow highlighted text excludes only this device; values represented by green, blue, and gray highlighted text must precede this value

OR

To find the PNPDeviceID for removable storage on Windows 7 or later:

 Insert the removable storage device. Open the Control Panel and go to Administrative Tools > Companagement. Select the Hardware tab, select the drive, and click Prope A new windows displays. Select the Device Instance Path in Property drop-down menu. The PNPDeviceID is displayed in the Value field. Click Start > Run Type msinfo32 and click Enter. When the System Information window displays, go to Compuse. 	rties. n the
Management. 3. Select the Hardware tab, select the drive, and click Prope 4. A new windows displays. Select the Device Instance Path in Property drop-down menu. The PNPDeviceID is displayed in the Value field. To find the PNPDeviceID for removable storage on Windows XP: 1. Click Start > Run 2. Type msinfo32 and click Enter. 3. When the System Information window displays, go to Company of the PNPDeviceID for removable storage on Windows XP:	rties. n the
4. A new windows displays. Select the Device Instance Path in Property drop-down menu. The PNPDeviceID is displayed in the Value field. To find the PNPDeviceID for removable storage on Windows XP: 1. Click Start > Run 2. Type msinfo32 and click Enter. 3. When the System Information window displays, go to Company of the PNPDeviceID for removable storage on Windows XP:	n the
Property drop-down menu. The PNPDeviceID is displayed in the Value field. To find the PNPDeviceID for removable storage on Windows XP: 1. Click Start > Run 2. Type msinfo32 and click Enter. 3. When the System Information window displays, go to Compare the Compare	
To find the PNPDeviceID for removable storage on Windows XP: 1. Click Start > Run 2. Type msinfo32 and click Enter. 3. When the System Information window displays, go to Company to the storage of the properties of the prop	oonents >
1. Click Start > Run 2. Type msinfo32 and click Enter. 3. When the System Information window displays, go to Compare the C	oonents >
 Type msinfo32 and click Enter. When the System Information window displays, go to Comp 	oonents >
3. When the System Information window displays, go to Comp	oonents >
	oonents >
A list of USB devices and their PNPDeviceIDs displays.	
Available Delimiters:	
Tabs	
Commas	
Semi colons	
Hex character 0x1E (Record separator character)	
EMS Alpha Characters Required in Password Selected Selected requires one or more letters in the password.	
EMS Mixed Case Required in Password Selected Selected requires at least one uppercase and one lowercase letter in password.	the
EMS Number of Characters 1-40 characters	
Required in Password Minimum number of characters required in the password.	
EMS Numeric Characters Required in Password Selected Selected requires one or more numeric characters in the password.	
EMS Password Attempts 1-10	
Allowed Number of times the user can attempt to enter the correct password	
EMS Special Characters Required in Password Not Selected Selected requires one or more special characters in the password.	
EMS Access and Device Code	
Length Number of characters access and device codes have. 32 characters is secure, while 8 is the easiest to enter.	the most
EMS Access Code Attempts 3 1-10	
Allowed Number of times the user can attempt to enter the access code.	
Apply Cooldown, Wipe Encryption Keys	
Action to take following unsuccessful EMS Access Code Attempts Allow	wed:
EMS Access Code Failure Apply Cooldown Apply Cooldown	
Wipe Encryption Keys to delete the encryption keys on the removal making the encrypted data inaccessible until the owner takes the me encrypted computer for which he has a login.	
String - 5-512 characters - Authentication Failed: Please contact your administrator.	system
EMS Access Code Required Authentication Failed. Please Authentication Failed. Please	code
contact your system More	
administrator. Message policies must have non-blank values.	
"Space" and "Enter" characters used to add lines between rows count characters used. Messages over the 512 character limit are truncated	

		client.
		We recommend that you customize the second sentence of the message to include specific instructions about how to contact a Help Desk or Security Administrator for authentication failures.
		0-5000 seconds
EMS Cooldown Time Delay	30	Number of seconds the user must wait before attempting to enter the access code after failing the specified number of times.
		0-5000 seconds
EMS Cooldown Time Increment	20	Incremental time to add to the cooldown time each time the user fails to enter the correct access code in the specified number of attempts.
		String - 5-512 characters - You are not authorized to use this media. Please contact your system administrator.
		Message that displays following unsuccessful Access Code Attempts Allowed.
	String	More
EMS Access Code Failed	You are not authorized to use	Message policies must have non-blank values.
Message	this media. Please contact your system administrator.	"Space" and "Enter" characters used to add lines between rows count as characters used. Messages over the 512 character limit are truncated on the client.
		We recommend that you customize the message to include specific instructions about how to contact the Help Desk or Security Administrator.
		Encryption rules to be used to encrypt/not encrypt certain drives, directories, and folders.
		A total of 2048 characters are allowed. "Space" and "Enter" characters used to add lines between rows count as characters used. Any rules exceeding the 2048 limit are ignored.
		See Encryption Rules for information.
		More
		Storage devices which incorporate multi-interface connections, such as Firewire, USB, eSATA, etc. may require the use of both EMS and encryption rules to encrypt the endpoint. This is necessary due to differences in how the Windows operating system handles storage devices based on interface type.
		To ensure encrypting an iPod via EMS does not make the device unusable, use the following rules:
		-R#:\Calendars -R#:\Contacts -R#:\Notes -R#:\Notes
EMS Encryption Rules		You can also force encryption of specific file types in the directories above. Adding the following rules will ensure that ppt, pptx, doc, docx, xls, and xlsx files are encrypted in the directories excluded from encryption via the previous rules:
		^R#:\Calendars ;ppt.doc .xls.pptx .docx.xlsx ^R#:\Contacts ;ppt .doc.xls .pptx.docx .xlsx ^R#:
		\iPod_Control ;ppt.doc .xls.pptx .docx.xlsx ^R#:\Notes ;ppt.doc .xls.pptx .docx.xlsx ^R#:\Photos ;ppt.doc .xls.pptx

	.docx.xlsx
	Replacing these five rules with the following rule will force encryption of ppt, pptx, doc, docx, xls, and xlsx files in any directory on the iPod, including Calendars, Contacts, iPod_Control, Notes, and Photos:
	^R#:\;ppt.doc.xls .pptx.docx.xlsx
	These rules disable or enable encryption for these folders and file types for all removable devices - not just an iPod. Use care when defining rules to exclude an iPod from encryption.
	These rules have been tested against the following iPods:
	iPod Video 30gb fifth generation
	iPod Nano 2gb second generation
	iPod Mini 4gb second generation
	We do not recommend the use of the iPod Shuffle, as unexpected results may occur.
	As iPods change, this information could also change, so caution is advised when allowing the use of iPods on EMS-enabled computers.
	Because folder names on iPods are dependent on the model of the iPod, we recommend creating an exclusion encryption policy which covers all folder names, across all iPod models.
See <u>basic settings</u>	

Mac Media Encryption

This technology works on Mac computers using Dell Encryption External Media to encrypt data on removable devices, which can be accessed using a user-defined password. These policies allow configuration of the Encryption External Media password requirements and the removable media allowed.

Mac Media Encryption	Off	Toggle On to enable Mac Removable Media Encryption policies. If this policy is toggled to OFF, no Mac Removable Media Encryption takes place, regardless of other policies.
		AES 256, AES 128, 3DES
EMS Encryption Algorithm	AES256	Encryption algorithm used to encrypt removable storage.
EMS Encryption Algorithm	NESESS	Encryption algorithms in order of speed, fastest first, are AES 128, AES 256, 3DES.
		Common, User, User Roaming
EMS Data Encryption Key	User Roaming	Note that although Common is available, it is not implemented in this release.
		Choose a key to be used by the Encryption client to encrypt all data encrypted by the Encryption External Media.
EMS Alpha Characters Required in Password	Selected	Selected requires one or more letters in the password.
EMS Mixed Case Required in Password	Selected	Selected requires at least one uppercase and one lowercase letter in the password.
EMS Number of Characters.	8	1-40 characters
Required in Password	8	Minimum number of characters required in the password.
EMS Numeric Characters Required in Password	Selected	Selected requires one or more numeric characters in the password.
EMS Password Attempts	3	1-10
Allowed	3	Number of times the user can attempt to enter the correct password.
EMS Special Characters Required in Password	Not Selected	Selected requires one or more special characters in the password.
EMS Access and Device Code Length	16	8, 16, 32 Number of characters access and device codes have. 32 characters is the most secure, while 8 is the easiest to enter.

EMS Access Code Attempts Allowed	3	1-10 Number of times the user can attempt to enter the access code.
		Apply Cooldown, Wipe Encryption Keys
		Action to take following unsuccessful Access Code Attempts Allowed:
EMS Access Code Failure Action	Apply Cooldown	Apply Cooldown to allow another round of attempts following the specified cooldown period (Cooldown Time Delay and Cooldown Time Increment policies)
		Wipe Encryption Keys to have the Encryption client delete the encryption keys on the removable storage, making the encrypted data inaccessible until the owner takes the media to a Dell-encrypted computer for which he has a login.
		String - 5-512 characters - Authentication Failed: Please contact your system administrator.
		Message that displays when a user needs to contact you for an access code (after authentication failure).
	String	More
EMS Access Code Required	Authentication Failed.	Message policies must have non-blank values.
Message	Please contact your system administrator.	"Space" and "Enter" characters used to add lines between rows count as characters used. Messages over the 512 character limit are truncated on the client.
		We recommend that you customize the second sentence of the message to include specific instructions about how to contact a Help Desk or Security Administrator for authentication failures.
		0-5000 seconds
EMS Cooldown Time Delay	30	Number of seconds the user must wait between the first and second rounds of access code entry attempts.
		0-5000 seconds
EMS Cooldown Time Increment	20	Incremental time to add to the previous cooldown time after each unsuccessful round of access code entry attempts.
		String - 5-512 characters - You are not authorized to use this media. Please contact your system administrator.
		Message that displays following unsuccessful Access Code Attempts Allowed.
	String	More
EMS Access Code Failed Message	You are not authorized to use this media. Please	Message policies must have non-blank values.
wessage	contact your system administrator.	"Space" and "Enter" characters used to add lines between rows count as characters used. Messages over the 512 character limit are truncated on the client.
		We recommend that you customize the message to include specific instructions about how to contact the Help Desk or Security Administrator.
		Encryption rules to be used to encrypt/not encrypt certain drives, directories, and folders.
		A total of 2048 characters are allowed. "Space" and "Enter" characters used to add lines between rows count as characters used. Any rules exceeding the 2048 limit are ignored.
		See Encryption Rules for information.
		More
EMS Encryption Rules		Storage devices which incorporate multi-interface connections, such as Firewire, USB, eSATA, etc. may require the use of both EMS and encryption rules to encrypt the endpoint. This is necessary due to differences in how the Windows operating system handles storage devices based on interface type.
		To ensure encrypting an iPod via EMS does not make the device unusable, use the following rules:
		-R#:\Calendars -R#:\Contacts -R#:\iPod_Control -R#:\Notes -R#:\Photos
		You can also force encryption of specific file types in the directories above. Adding the following rules will ensure that ppt, pptx, doc, docx, xls, and xlsx files are encrypted in the directories excluded from encryption via the previous

rules:			
ippt, doc. x.xlsx			
xis pptx docx.xisx Pet-Contacts ppt docx.docx xisx Pet-Contacts ppt docx.docx xisx Pet-Victoriacts ppt doc xisx Pet-Victoriacts ppt doc xis pptx docx.xisx Pet-Victoriacts ppt doc xis pptx docx.xisx Pet-Vibrotos ppt doc xis pptx docx.xisx Replacation docx.xisx Replacation docx.xisx Replacation docx.xisx Replacation docx.xisx Replacation docx.xisx Replacation ppt doc xis pptx docx.xisx Replacation docx.xisx Replacation docx.xisx Replacation ppt doc xis pptx docx.xisx Replacation ppt doc xis pptx docx.xisx Replacation ppt docx xis pptx docx.xisx Replacation docx.xisx Replacation docx.xisx Replacation ppt docx xis pptx docx.xisx Replacation ppt docx xis pptx docx.xisx Replacation docx.xisx docx.xisx Replacation docx.xisx docx.xisx docx.xisx docx.xisx doc			
doc.x xlsx **PR**Contracts ppt doc.x xls pptx.docx doc.x xlsx pptx.docx yet lead control ppt doc xls.pptx docx xlsx **PR**Notes ppt doc xls.pptx docx xlsx **Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx, docx xlsx Replacing these five rules with an inference when defining rules to exclude an ifed from encryption. These rules have been tested against the following ifeds: iPed Video 30gb riffin peneration iPed Allmi dgs second generation We do not recommend the use of the iPed Shuffle, as unexpected results may occur. As iPeds change, this information could also change, so caution is advised when allowing the use of iPeds on fibM-enabled computers. Because folder names on iPeds are dependent on the model of the iPed we recommend coracting an exclusion encryption policy which covers all folder names, across all iPed models. Disabled, Enable Local, Enable Roaming Local automatic Authentication encryption policy which covers all folder names, across all iPe			
ippt doc. xls p.ppt.docx xls p.ppt.docx xls p.ppt.doc xls p.ppt.doc xls p.ppt.doc xls p.ppt.doc xls p.pt.doc xls			.docx.xlsx
idiox.xls pptx.docx xlsx Rer lived_Control ppt dec bisptx docx.xlsx Rer lived_Control ppt dec classifier pptx.doc xls, pptx docx.xlsx RerNotes pptx.doc xls, pptx docx.xlsx RerNotes ppt.doc xls, pptx docx.xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx.doc.xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx.doc.xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx.doc.xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx.doc.xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx.doc.xlsx Replacing these five rules with the following rule will force encryption of ppt, pptx.doc.xlsx Replacing the service five five rules with the following rule will force encryption for these folders and file types for all government of the five five five five five five five fiv			
p.pbt. docs. xisx			
"Re: ViPod_Control ippt. doc xis, pptx docx.xisx "Re! Woltes ippt. doc docx.xisx "Re! Woltes ippt. doc docx.xisx "Re! Woltes ippt. doc docx.xisx "Re! Photos ippt. doc ippt. doc ippt. doc ippt. doc ippt. doc ippt. doc ippt. docx.xis Replacing these five rules with the following rule will force encryption of ppt, ippt. doc, docx, xis, and xisx files in any directory on the iPod, including Calendars, Contacts, IPod_Control, Notes, and Photos: "Re! ippt. doc.xis ippt. doc.xis ippt. docx.xis			
NiPod. Control ippt. doc x/s, pptx doc x/s, pptx doc x/s, pptx doc x/s, pptx doc x/s, ppt doc x/s, pptx doc x/s Replacing these five rules with the following rule will force encryption of ppt, pptx, doc, docx, x/s, and x/s, files in any directory on the iPod, including Calendars, Contacts, IPod_Control, Notes, and Photos: "PP-\ppt, doc x/s pptx docx x/s These rules disable or enable encryption for these folders and file types for all romovable dovices - not just an iPod. Use care when defining rules to exclude an iPod from encryption. These rules disable or enable encryption for these folders and file types for all romovable dovices - not just an iPod. Use care when defining rules to exclude an iPod from encryption. These rules disable or enable encryption for these folders and file types for all romovable dovices - not just an iPod. Use care when defining rules to exclude an iPod from encryption. These rules disable or enable encryption for these folders and file types for all romovable dovices. The pod use and the following iPods: iPod Mind algo second generation iPod Mind algo			
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EMS Device Whitelist PNPDeviceID. Maximum of 2048 total characters allowed. "Space" and "Enter"		Selected	when logged on to any encrypted endpoint, regardless of the Dell Server the user activated against. The user will not be able to work with encrypted data
sharacters count in the total characters asca.	EMS Device Whitelist		

This policy allows the specification of removable storage devices to exclude from encryption [using the removable storage device's Plug and Play device identifier (PNPDeviceID)], thereby allowing users full access to the specified removable storage devices.

More..

This policy is available on an Enterprise, Domain, Group, and User level. Note that local settings override inherited settings. If a user is in more than one group, all EMS Device Whitelist entries, across all Groups, apply.

Note: This policy is particularly useful when using removable storage devices which provide hardware encryption. However, this policy should be used with caution. This policy does not check whether external media devices on this list provide hardware encryption. Whitelisting removable storage devices which do not have hardware encryption will not have enforced security and will not be protected.

For example, the Kingston® DataTraveler® Vault Privacy model enforces that encryption is enabled to use the device. However, the Kingston DataTraveler Vault model has an unsecured partition and a secured partition. Because it is the same physical removable storage device with only one PNPDeviceID, the two partitions cannot be distinguished, meaning that whitelisting this particular removable storage device would allow unencrypted data to leave the endpoint.

Additionally, if a removable storage device is encrypted and is subsequently added to the EMS Device Whitelist policy, it remains encrypted and requires a reformat of the removable storage device to remove encryption.

The following is an example of a PNPDeviceID, which contains the manufacturer identifier, product identifier, revision, and hardware serial number:

USBSTOR\DISK&VEN_KINGSTON &PROD_DTVAULT_PRIVACY& REV_104\07005B831A0004B4&0

To whitelist a removable storage device, provide a string value which matches portions of the device's PNPDeviceID. Multiple device PNPDeviceIDs are allowed

For example, to whitelist all Kingston DataTraveler Vault Privacy models, input the string:

PROD_DTVAULT_PRIVACY

To whitelist both models of Kingston DataTraveler, the Vault and Vault Privacy models, input the string:

PROD_DTVAULT_PRIVACY; PROD_DT_VAULT

Note that space characters are considered part of the substring to match to a PNPDeviceID. Using the previous PNPDeviceID as an example, a space before and after the semicolon would cause neither of the substrings to be matched, because the space character is not part of the PNPDeviceID.

Instructions...

- 1. Insert USB removable media.
- 2. Open System Profiler.
- 3. Under Hardware, select the USB device and find the Product ID and Vendor ID, as follows:

Capacity: 2.06 GB (2,055,019,008 bytes)

Removable Media:Yes Detachable Drive:Yes BSD Name:disk2

Product ID:0x5406 Vendor ID:0x0781 (SanDisk Corporation)

Version: 0.10

Serial Number:0000188C36725BC8

Speed:Up to 480 Mb/sec Manufacturer:SanDisk Location ID:0x24100000

		Current Available (mA):500	
		Current Required (mA):200	
		Partition Map Type:MBR (Master Boot Record)	
		S.M.A.R.T. status:Not Supported	
		4. The following Whitelist Rules can be used:	
		USBVendorName=abc	
		USBVendorNum=0x02	
		USBVendorNum=2,USBProductNum=3	
		USBVendorNum=2,USBProdName=abc	
		For this example, in the Security Management Server, add the following key/pair string to the EMS Device Whitelist policy, as shown below:	
		"USBVendorNum=0x0781,USBProductNum=0x05406" (including quotes)	
		5. When satisfied with the EMS Device Whitelist rules, save and commit the policy.	
		Ignore, Provisioning Rejected, Unshieldable	
EMS Trust for Unsupported File Systems	Ignore	Specifies how media are handled when formatted by file systems that are not supported with Encryption External Media.	
		Users matching this dictionary are restricted from unencrypted media use.	
		Example:	
		<key>AccessUnencryptedMediaRestrictionUsers</key>	
		<dict></dict>	
Restricted user list for	Dictionary	<key>dsAttrTypeStandard:AuthenticationAuthority</key>	
access to unencrypted media	Dictionally	<array></array>	
		<pre><string>;Kerberosv5;;username1@domainName.com;domainName.com*</string></pre>	
		<pre><string>;Kerberosv5;;@domainName.org;domainName.org</string></pre>	
		Full, Read Only, Block	
Restrict Access to Unencrypted Media	Full	Specify how media encrypted with Encryption External Media is handled for users matching unencrypted media restriction.	
See <u>basic settings</u>			

Removable Media Policies that Require Logoff

- Windows Media Encryption
- EMS Scan External Media
- EMS Encryption Algorithm
- EMS Exclude CD/DVD Encryption
- EMS Data Encryption Key

Mac Encryption

Mac Encryption

Policy	Default Setting	Description
Dell Volume Encryption This technology allows the use Encryption.	of either Mac FileVault full disk encry	yption or Dell's proprietary Dell Volume
		On Off
Dell Volume Encryption	On	Toggle ON to enable Dell Volume Encryption policies. If this policy is toggled to OFF, no Dell Volume Encryption takes place, regardless of other policies.
		On Off
Encrypt Using FileVault for Mac	Off	Toggle ON to enable FileVault to encrypt all volumes including System Volumes and Fusion Drives.
		Highest, High, Normal, Low, Lowest
Workstation Scan Priority	Normal	Specifies the relative priority of encrypted folder scanning. High and Highest prioritize scanning speed over computer responsiveness, Low and Lowest prioritize computer responsiveness over scanning speed and favor other resource-intensive activities, and Normal balances the two.
		The Encryption client checks for a changed Workstation Scan Priority before processing the next file.
		NOTE: This policy applies to Dell Encryption, not FileVault encryption.
See <u>advanced settings</u>		
Policy	Default Setting	Description
policies.	ncryption benavior, including targeted	I volumes, polling intervals, and restart
		System Volume Only All Fixed Volumes
policies. Volumes Targeted for Encryption	All Fixed Volumes	System Volume Only
		System Volume Only All Fixed Volumes The System Volume Only setting secures only
		System Volume Only All Fixed Volumes The System Volume Only setting secures only the currently running system volume. String - maximum of 1500 characters
		System Volume Only All Fixed Volumes The System Volume Only setting secures only the currently running system volume. String - maximum of 1500 characters List fully qualified Policy Proxy hostnames, or
Volumes Targeted for Encryption		System Volume Only All Fixed Volumes The System Volume Only setting secures only the currently running system volume. String - maximum of 1500 characters List fully qualified Policy Proxy hostnames, or IP addresses, separated by carriage returns.
		System Volume Only All Fixed Volumes The System Volume Only setting secures only the currently running system volume. String - maximum of 1500 characters List fully qualified Policy Proxy hostnames, or IP addresses, separated by carriage returns. More Once the Encryption client finds a valid entry, the remainder of the entries are ignored. Entries are processed in the following order:
Volumes Targeted for Encryption		System Volume Only All Fixed Volumes The System Volume Only setting secures only the currently running system volume. String - maximum of 1500 characters List fully qualified Policy Proxy hostnames, or IP addresses, separated by carriage returns. More Once the Encryption client finds a valid entry, the remainder of the entries are ignored.

		Policy Proxy Polling Interval policy.
		You cannot specify ports in this policy.
		The Encryption client communicates with Policy Proxies using the GKPORT specified during client installation (the default is 8000).
		Inherited values for this policy accumulate.
		In order for the Encryption client to connect to a Policy Proxy specified in this policy, it must be in the same group as the Policy Proxy specified during client installation.
		Because the Shield supports up to 255 users per endpoint, this policy is available only at the Enterprise Policies level.
		1-1440 minutes
Policy Proxy Polling Interval	360	The interval that the Encryption client attempts to poll Policy Proxy for policy updates, and send inventory information to Policy Proxy.
Tolley From gritter var	300	Setting the Policy Proxy Polling Interval below 60 minutes is not recommended, due to potential degradation of performance.
		The Encryption client also attempts to poll Policy Proxy each time a user logs on.
Force Restart on Policy Updates	Selected	If this policy is set to Selected, the Encryption client will force a computer restart after the specified delay upon receiving a policy update requiring a restart. The delay is specified by the Length of Each Restart Delay and Number of Restart Delays Allowed policies.
		If this policy is set to Not Selected, the Encryption client will neither force nor prompt for a restart. The policy requiring the restart will take effect the next time the user restarts their computer.
		If Force Restart on Policy Updates is set to Selected, this value is the number of minutes the user can delay the restart before another restart prompt is displayed.
	15	If Force Restart on Policy Updates is set to Not Selected, this policy is ignored.
Length of Each Restart Delay		More The Encryption client displays the restart prompt for five minutes each time. If the user does not respond to the prompt, the dialog is dismissed and next delay begins. If the five-minute timer expires and no restart delays remain, the computer will restart immediately.
		Tip: Calculate the maximum possible delay as follows (a maximum delay would involve the user responding to each delay prompt immediately prior to the 5-minute mark):
		(Number of Reboot Delays Allowed x Length of Each Reboot Delay) + (5 minutes x [Number of Reboot Delays Allowed + 1]).
Number of Restart Delays Allowed	3	If Force Restart on Policy Update is set to Selected, this value is the number of times the user can delay the restart. If this policy is set to "0", the Encryption client will prompt the user to restart immediately and will force the restart if the user does not acknowledge

the prompt within five minutes.
If Force Restart on Policy Updates is set to Not Selected, this policy is ignored.

Advanced Mac Encryption

Policy descriptions also display in tooltips in the Remote Management Console. In this table, master policies are in bold font.

Policy	Default Setting	Description
Dell Volume Encryption This technology allows the use of Encryption.	of either Mac FileVault full disk	encryption or Dell's proprietary Dell Volume
Dell Volume Encryption	On	On Off Toggle ON to enable Dell Volume Encryption policies. If this policy is toggled to OFF, no Dell Volume Encryption takes place, regardless of other policies.
Workstation Scan Priority	Normal	Highest, High, Normal, Low, Lowest Specifies the relative Mac priority of encrypted folder scanning. High and Highest prioritize scanning speed over computer responsiveness, Low and Lowest prioritize computer responsiveness over scanning speed and favor other resource-intensive activities, and Normal balances the two. The Encryption client checks for a changed Workstation Scan Priority before processing the next file.
Encryption Algorithm	AES256	AES 256, AES 128 Encryption algorithm used to encrypt data at the endpoint (all users) level. Encryption algorithms in order of speed, fastest first, are AES 128, AES 256. NOTE: This policy applies to Dell Encryption, not FileVault encryption.
Firmware Password Mode	Required	Required, Optional Specify if the firmware password in older hardware is optional or required for Dell Volume Encryption.
FileVault 2 Policy Conflict Behavior	Ignore	Ignore, Report, Convert Specify behavior when volume is Dell encrypted and policy is for FV2 encryption. Ignore - Default behavior, Dell encrypted volumes are reported as protected if the policy requires FV2 encryption. Report - Conflicted volumes are reported to the Server as unprotected. Convert - Dell encrypted volumes are converted to FV2 volumes and reported as unprotected while converting.
See <u>basic settings</u>		

Mac Global Settings This technology defines Mac encryption behavior, including targeted volumes, polling intervals, and restart policies.

		0-32400 seconds
Max Password Delay	300	Limits the maximum delay in seconds that can be set in the system preferences "max password delay after screen saver or sleep" of the Security panel.
Delay Authentication	Not Selected	If Selected, users aren't prompted to activate or authenticate to the Dell Server until required, such as to use media encrypted with Encryption External Media.
		Users matching this dictionary are not required to activate or authenticate to the Dell Server.
		Example:
		<key>NoAuthenticateUsers</key>
No Auth User List	Dictionary	<dict></dict>
		<key>dsAttrTypeStandard:AuthenticationAuthority</key>
		<pre><string>;Kerberosv5;;@students.school.edu; students.school.edu</string></pre>
		Users matching this dictionary are allowed to add themselves to FileVault Preboot Authentication.
		Example:
		<key>FV2PBAUsers</key>
FileVault 2 PBA User List	Dictionary	<dict></dict>
		<key>dsAttrTypeStandard:AuthenticationAuthority</key>
		<pre><string>;Kerberosv5;;*@students.school.edu; students.school.edu*</string></pre>

Port Control

Port Control

Policy	Default Setting	Description
Windows Port Control This technology allows for control of all the physical ports on a Windows computer (disable/enable/bypass), and can be customized by port type.		
Port Control System	Disabled	Enable or Disable all Port Control System policies. If this policy is set to Disable, no Port Control System policies are applied, regardless of other Port Control System policies. All PCS policies require a reboot before the policy takes effect.
Port: Express Card Slot	Enabled	Enable, Disable, or Bypass ports exposed through the Express Card Slot.
Port: USB	Enabled	Enable, Disable, or Bypass port access to external USB ports. Note: USB port-level blocking and HID class-level blocking is only honored if we can identify the computer chassis as a laptop/notebook form-factor. We rely on the computer's BIOS for the identification of the

	I	
		chassis.
Port: eSATA	Enabled	Enable, Disable, or Bypass port access to external SATA ports.
See <u>advanced settings</u>		
Windows Device Control This technology allows for control o customized by device type.	f all the devices on a Windows comp	uter (disable/enable), and can be
Class: Storage	Enabled	PARENT to the next 3 policies. Set this policy to Enabled to use the next 3 Subclass Storage polices. Setting this policy to Disabled disables all 3 Subclass Storage policies - no matter what their value.
Class: Windows Portable Device (WPD)	Enabled	PARENT to the next policy. Set this policy to Enabled to use the Subclass Windows Portable Device (WPD): Storage policy. Setting this policy to Disabled disables the Subclass Windows Portable Device (WPD): Storage policy - no matter what its value. Control access to all Windows Portable
		Devices.
		CHILD of Class: Windows Portable Device (WPD) . Class: Windows Portable Device (WPD) must be set to Enabled to use this policy.
Subclass Windows Portable Device (WPD): Storage	Full Access	Full Access: Port does not have read/write data restrictions applied.
otol ago		Read Only: Allows read capability. Write data is disabled.
		Blocked: Port is blocked from read/write capability.
		Control access to all Human Interface Devices (keyboards, mice).
Class: Human Interface Device (HID)	Enabled	Note: USB port-level blocking and HID class-level blocking is only honored if we can identify the computer chassis as a laptop/notebook form-factor. We rely on the computer's BIOS for the identification of the chassis.
See <u>advanced settings</u>		
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Advanced Port Control

Policy	Default Setting	Description
Windows Port Control This technology allows for control of all the physical ports on a Windows computer (disable/enable/bypass), and can be customized by port type.		
Calculate Changes Fuhamal Dalas Cantarl	Full Access	CHILD of Class: Storage. Class: Storage must be set to Enabled to use this policy.
Subclass Storage: External Drive Control		This policy interacts with the Removable Storage - EMS Access to unShielded Media

and the port is not blocked. Full Access: External Drive port does not have read/write data restrictions applied Read Only. Allows read capability. Write data is disabled Blocked: Port is blocked from read/write capability. This policy is endpoint-based and cannot be overridden by user policy. CHILD of Class: Storage. Class: Storage must be set to Enabled to use this policy. Full Access: Optical Drive port does not have read/write data restrictions applied UDF Only. Blocks all data with state are not in the UDF format (CD/DVD burning). Read data is enabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Concept data written to CD/DVD Define. Read Only. Only. Concept data writen to CD/DVD Define. Read Only. Only. Read Only. Read Only. Read Only. Read Only. Allows read capability. Write data storage Class: Storage. Class: Storage must be set to Enabled to use this policy. Full Access: Floppy Drive Control. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write data is disabled. Read Only. Allows read capability. Write			
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is disabled Blocked: Port is blocked from read/write capability This policy is endpoint-based and cannot be overridden by user policy. CHILD of Class: Storage. Class: Storage must be set to Enabled to use this policy. CHILD of Class: Storage class: Storage must be set to Enabled to use this policy. CHILD of Class: Optical Prive port does not have read/write data restrictions applies the set of the provided my user policy. CHILD of Class: Storage class: Storage must be set to Enabled to use this policy. Bounding), Read data is enabled. Read Only: Allows read capability. Write dat is disabled Blocked: Port is blocked from read/write capability This policy is endpoint-based and cannot be overridden by user policy. Universal Disk Format (UDF) is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an order of the specification known as ISO/ICC 32346 and Elocked-Ind is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is an implementation of the specification known as ISO/ICC 32346 and Elocked-Ind is			
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Port: SD Enabled card ports. Port: Memory Transfer Device (MTD) Enabled Enabled Enable, or Bypass access to Memory Transfer Device (MTD) ports.	Port: Firewire (1394)	Enabled	
Port: Memory Transfer Device (MTD) Transfer Device (MTD) ports.	Port: SD	Enabled	
See <u>basic settings</u>	Port: Memory Transfer Device (MTD)	Enabled	Enable, Disable, or Bypass access to Memory Transfer Device (MTD) ports.
	See <u>basic settings</u>		

Windows Device Control
This technology allows for control of all the devices on a Windows computer (disable/enable), and can be customized by device type.

Class: Other	Control access to all devices not covered by other Classes.
See <u>basic settings</u>	

Global Settings

Global Settings policies are available at the Enterprise, Endpoint Groups, and Endpoints levels. All Global Settings policies are endpoint-based, meaning the policies follow the endpoint, not the user.

Audit Control policies are available at the Enterprise, Endpoint Groups, Endpoints, User Groups, and Users levels.

Policy descriptions also display in tooltips in the Remote Management Console.

Policy	Default	Description		
	Settings This technology allows control over general settings such as polling intervals, support dialogs, in-app feedback, auto updates, data auditing, and client retention periods.			
	30	Defines the period of inactivity (in days) before an encrypted endpoint is automatically removed from the list of managed clients.		
		The inactivity period is based on the number of days since the Dell Server last received inventory information from the encrypted endpoint. Once removed, the endpoint will no longer be included in reports, statistics, and other administrative views.		
Device Lease Period		If the encrypted endpoint communicates with the Dell Server after the inactivity period has expired, the endpoint will be returned to the list of actively-managed clients.		
		Note: The Dell Server will always keep encryption keys in escrow, even for removed endpoints. This ensures recoverability of encrypted data through various workflows, such as Encryption client re-activation and forensic analysis.		
Enable In-App Feedback	Not selected	When selected, an end user can submit feedback and satisfaction ratings to Dell via a link within the client application to a web form.		
		1-1440 minutes		
Server Polling Interval	360 minutes	How often in minutes the SED client attempts to contact the Dell Server for updates.		
Custom Support Dialog	String	Customizable text that provides information for users to contact IT support for the organization. This allows a maximum of 10,000 characters, which can be four lines with a maximum of 2500 characters each. The text cannot contain line feeds, Enters, or similar characters unless they are escaped. If an administrator enters an invalid character (non-JSON format), this may cause Data Guardian clients to stop activating. For user experience on Windows devices, a maximum of 2000 characters is recommended; for Mobile devices and Mac, a maximum of 1000		

Enable Software Auto Updates Not Selected Not Selected Not Selected Not Selected Selected enables the client update agent to automatically check for updates to Dell Security Software. If this policy is not selected, no Dell Auto Update State place, regardies of other policy is not selected, no Dell Auto Update Staging Location must have a network location in its value. On Premise Update Staging Location String Notwork location (UNC) where Dell Server Stages Dell update packages, if a network location is not specified in this policy, the selected in the policy should not be published and Update Staging Location in the selected in the policy should not be published. In Update Selected Individual Selected Indivi			characters is recommended.
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See <u>advanced settings</u>	Data Guardian Audit Data Enabled	Selected	Selected enables Audit Control policies. If this policy is not selected, no Audit Control takes place, regardless of other policies. It also enables the collection of audit data from
	See <u>advanced settings</u>		

Advanced Global Settings

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Audit Control policies are available at the Enterprise, Endpoint Groups, Endpoints, User Groups, and Users levels.

Policy descriptions also display in tooltips in the Remote Management Console.

Policy	Default	Description
Settings This technology allows control over feedback, auto updates, data auditi	general settings such as polling interning, and client retention periods.	vals, support dialogs, in-app
DDP Auto Updates		
		1-43200 minutes (30 days)
Update Check Period	10080	The period in minutes between checks for updates.
See <u>basic settings</u>		
Mobile Audit Control		
Data Guardian Geo Location Audit Data	Selected	Selected Not Selected
Data Guardian GCO EGCation Addit Data	selected	Selected includes geo tracking location data in audit data.
See <u>basic settings</u>		