

Comodo Endpoint Manager

Software Version 6.26

Bulk Enrollment via Active Directory

Guide Version 6.26.021819

Comodo Security Solutions 1255 Broad Street Clifton, NJ 07013

COMODO Creating Trust Online

Endpoint Manager - Bulk Enrollment via Active Directory

This tutorial briefly explains how you can install the EM communication client on multiple Windows endpoints using Active Directory and group policy (GPO) and enroll them for management.

Software Requirements

- AD Server Windows Server 2008 or higher
- Endpoints Windows 7 or higher

Please note the method described below for creating a group policy (GPO) and deploying them is for Windows Server 2008 Standard. The steps may vary slightly for other Window server versions.

Step 1 - Configure the offline EM package

The Endpoint Manager communication client package is unique for each company and user. All endpoints that have a client installed upon them will be listed under the logged in user name or as configured in the 'User' field on the form below.

To configure the offline package

- Login to Endpoint Manager
- Click 'Devices' > 'Bulk Installation Package'
- Select the 'Bulk Installation Package' tab

Endpoint Manager	≡ Bulk Installation Package License Options 👎 ② & Logout (herculespopular22@gmail.com)
DASHBOARD >	
DEVICES V	Bulk Installation Package Remote Control by ITarian
Device List	User *
Bulk Installation Package	herculespopular22@gmail.com
\underline{A} users \rightarrow	By default, an installation package will be prepared for the logged in user. If you
CONFIGURATION TEMPLATES	would like to change the user, please input the corresponding user name into the field above.
$\hat{\varphi}_{0}^{0}\hat{\hat{\rho}}$ network management (beta) $>$	Customer * frontfork
APPLICATION STORE	Device group
APPLICATIONS	Default Group - frontfork
\bigcirc security sub-systems $\qquad>$	Package Options
\Leftrightarrow settings $>$	
	Choose operating system Windows x64
	Choose clients
	Communication Client
	Comodo Client - Security
	Additional options
	Include initial Antivirus signature database (will apply only if

The interface for configuring and downloading the bulk installation package opens on the right.

COMODO Creating Trust Online

k Installation Package	Remote Control by ITarian	
User *		
herculespopular22@gr	mail.com	
	ige will be prepared for the logged in user. If yo lease input the corresponding user name into	
Customer *		
frontfork		
Device group		
Default Group - frontfo	rk	
Package Options	3	
Choose operating system		
Windows x64		~
Choose clients		
Communication Clier	it	
Comodo Client - Secu	irity	
Additional options		
Confirmation message		
		te.
	Download Install	er
By downloading the	se files you automatically agree with	h «End
	User License Agreen	
Proxy settings		
Proxy host *		
Proxy host		
Proxy port *		
Proxy port		
Proxy login		
Proxy password		
	Develop 1 1 107 F	11-
	Download MST Fi	le

COMODO Creating Trust Online*

Endpoint Manager - Bulk Enrollment via AD

Bulk Installation Package - Form Parameters		
Parameter	Description	
User	Devices that are enrolled by installing the communication client through AD Group Policy are assigned to the currently logged-in administrator by default. If you want the devices to be assigned to a different user, specify the user.	
	• Start typing the name of a user and choose from the suggestions that appear.	
Customer	 Choose the company to which the endpoints should be assigned. This field only applies to C1 MSP and ITarian MSP customers. It does not 	
	apply to C1 Enterprise, ITarian Enterprise or EM stand-alone customers.	
Device Group	The device group to which the enrolled devices should be added (optional).	
	Any group profiles will also be applied to the devices you add.	
Package Options	Operating system - Choose the OS of the target endpoints. Clients:	
	• Communication Client (CC) - Mandatory. This client enrolls the endpoint.	
	Comodo Client Security (CCS) - Optional. This client installs security software such as antivirus, firewall and auto-containment.	
	To create an installation package in MSI/MST file format for bulk enrollment through AD Group Policy, leave only the 'Communication Client' selected and 'Comodo Client Security' unselected. You can remotely install CCS at a later time on required endpoints from the EM.	
	The rest of the configuration options related to CCS will not be enabled, if 'Security' is not selected under 'Choose clients'.	
Restart Control Options	CCS only. Endpoints need to be restarted to complete CCS installation. You have the following restart options:	
	 Force the reboot in Restart the endpoint a certain length of time after installation. Select the delay period from the drop-down. A warning message will be shown to the user prior to the restart. 	
	• Suppress reboot - Endpoint is not auto-restarted. The installation will be finalized when the user next restarts the endpoint.	
	• Warn about reboot and let users postpone it - Shows a message to the user which tells them that the endpoint needs to be restarted. The user can choose when the restart happens.	
	Optional. Type a custom message in the 'Reboot Message' field.	
UI Options	Configure which messages are shown to the user regarding the installation.	
	 Show error messages if installation failed - Notifies the user if the installation is not successful. 	
	• Show a confirmation message upon completion of installation - Notifies the user if the installation is successful. Type your message in the box provided.	
Proxy Settings	Proxy settings allows you to specify a proxy server through which Comodo Client Security (CCS) and the communication client (CC) on the endpoints should connect to EM management portal and Comodo servers. If you choose not to set these, then CCS and CC will connect directly as per the network settings.	
	Enter the IP address/hostname of the proxy server and port in the respective	

 fields. Enter the user-name and password of an administrative account on the proxy server in the Proxy Login and Proxy Password fields
Note: If proxy is used then it is mandatory to configure the same proxy settings in client proxy settings in the profile(s) applied to the enrolled devices.

- If you do not wish to use a proxy server for CCS and CC then click 'Download Installer' after configuring user, company, group and client options.
- If you wish to use a proxy then additionally complete the 'Proxy settings' section and click 'Download MST File'

Please note .mst file can be added to the GPO only after it has been configured as explained in the steps given below.

Step 2 - Download the EM client package

The next step is to download the EM communication client package for Windows devices.

- Read the EULA in full by clicking the 'End User License Agreement' link.
- Click 'Download Installer' to download the client package setup file for direct installation via Group Policy Object (GPO),

The client package is downloaded in .msi format. You can save the file on the AD server from where you want to enroll the endpoints, and create a software installation policy for deployment to network endpoints. After the client is installed, it establishes communications with EM to begin importing the device.

 To download the installation file to include a proxy server for CC and CCS communication to EM and Comodo servers, click 'Download MST File'

EM will create a .mst transform file containing the proxy server installation commands. As above, you can save the file on the AD server from where you want to enroll the endpoints, and add to the GPO created for .msi file. After the client is installed, it establishes communications with EM via the configured proxy servers to begin importing the device.

After downloading the client package, save it on the AD server from where you want to enroll the endpoints.

Step 3 - Create a shared network folder and configure permission level

Now that you have downloaded the .msi setup file, the next step is to create a shared folder in the network.

- Create a new folder in your desired location
- · Name the folder appropriately. For example 'EM_agent'
- Select the folder, right-click and select 'Share' or from the menu toolbar

COMODO Creating Trust Online

👔 Local Disk (C:)		
🌀 🌍 🖉 🕶 Local Disk	(C:) • • • 🐼 Search	
File Edit View Tools H Organize ▼ III Views Favorite Links Documents Pictures	6769007df96f4bf5d 2/3/2016 4:46 AM File e95d74dd340af1f0b 6/9/2015 2:39 PM File	Folder Folder Folder
🚺 Music		Folder
More >> Folders Desktop Administrator Public Public Computer Computer Computer Se281a90d4cs 6769007df96f 6769007df96f 6769007df96f FM_agent Ips-temp PerfLogs Program Files Program Files	EM_agent 12/16/2016 3:13 File Ips-temp Open Program File Share Program File Restore previous versions Temp Add to archive Users Add to "EM_agent.rar" Windows Compress and email BOOTSECT Send To insta Cut Copy Create Shortcut Delete Rename Properties Properties	mail 8 KB
🔒 Temp	•	

Click 'Advanced Sharing...', then select the 'Share this folder' check box

COMODO Creating Trust Online

EM_agent Properties	×
General Sharing Security Previous	vanced Sharing 🛛 🗶
	Share this folder
EM_agent Not Shared	Settings Share name:
Network Path: Not Shared	EM_agent
Share	Add Remove
	Limit the number of simultaneous users to: 16777
Advanced Sharing Set custom permissions, create multi	Comments:
advanced sharing options.	
Advanced Sharing	Permissions Caching
	OK Cancel Apply
Close	Cancel Apply

Click 'Permissions'. By default, 'Everyone' will be selected. Since all endpoints need to have at least read access to this shared folder, make sure the permission is configured for 'Everyone'

COMODO Creating Trust Online

Endpoint Manager - Bulk Enrollment via AD

Permissions for EM_agent		×
Share Permissions		
Group or user names:		
Serveryone		
	Add	Remove
Permissions for Everyone	Allow	Deny
Full Control		
Change Read		H
Learn about access control and p	ermissions	
OK	Cancel	Apply

• Ensure the 'Permission Level' is set to 'Read' and click 'OK'.

dvanced Sharing
Share this folder
Settings
Share name:
EM_agent
Add Remove
Limit the number of simultaneous users to:
Comments:
Permissions Caching
OK Cancel Apply

• Click 'Apply', then 'OK' in the 'Advanced Sharing' dialog.

COMODO

Endpoint Manager - Bulk Enrollment via AD

📕 EM_agent Propertie	es		×
General Sharing Sec	curity Previous	Versions Cust	tomize
General Sharing Sea Network File and Fol EM_agent Shared Network Path: NWIN-CU20X8JDY Share Advanced Sharing Set custom permission advanced sharing op Mathematical Statements of Sea	der Sharing '3D\EM_agent pris, create multip ptions.]	
	Close	Cancel	Apply

• Note down the location of this shared folder and click the 'Close' button

Follow the similar steps to create a shared file location for .mst file, if required.

Step 4 - Create a Group Policy and Assign the package

The next step is to create a group policy that will install the client package onto the endpoints.

- Click 'Start' > 'Administrative Tools' > 'Group Policy Management'
- Right-click on the domain name and select the 'Create a GPO in this domain and Link it here...' option

COMODO Creating Trust Online*

🔜 Group Policy Management	x
🔜 File Action View Window Help	×
Group Policy Management Forest: test.com Domains Contents Sites Group Policy Management Contents Contents Contents Link an Existing GPO Block Inheritance Group Policy Modeling Wizard New Organizational Unit Search Change Domain Controller Remove Active Directory Users and Computers New Window from Here Refresh Properties Help	
Create a GPO in this domain and link it to this container	

Enter a name for the group policy in the 'New GPO' dialog.

New GPO	X
Name:	
EM_agent_deploy	
Source Starter GPO:	
(none)	•
	OK Cancel

Click 'OK'

The newly added group policy will be listed.

• Right-click on the policy and click the 'Edit' option

COMODO Creating Trust Online*

🔜 Group Policy Management	
🛃 File Action View Window Help	B×
🗢 🔿 🙋 🖬 🔀 🍳 🔢 🖬	
	ngs Delegation
▲ Add	Remove Properties
Open the GPO editor	

The 'Group Policy Management Editor' will be displayed.

• Expand 'Computer Configuration' > 'Policies' > 'Software Settings'

🗐 Group Policy Management Editor 📃 🗖 🗙					
File Action View Help					
🗢 🄿 🔰 🖬 🗐 🧕 😓 🛽	? 🖬				
🗾 EM_agent_deploy [WIN - CU20X8J	Name	Version D	Deployment state	Source	
 Computer Configuration Policies Software Settings Software installatic Windows Settings Mindows Settings Administrative Templat Preferences User Configuration Policies Preferences Preferences 			s to show in this vie		
	•		_		Þ

Right-click on 'Software installation' and select 'New' > 'Package'

COMODO Creating Trust Online

🧾 Group Policy Management Editor 📃 🗆 🗙				
File Action View Help				
🗢 🔿 🖄 🖬 🖬 🖬 😖 📘	? 🖬			
 EM_agent_deploy [WIN - CU20X8J Computer Configuration Policies Software Settings 		Version e are no ite	Deployment state	Source
 Windows Settings Administrative Temp Preferences User Configuration Policies Preferences 	New Package. View ▶ Paste ₽ Refresh ₽ Export List ₽ Help ▶			
Adds a package.	<u> </u>			
Jugas a bacuador				J

In the 'Open' dialog, enter the path of the shared folder that was noted before, select the file and click the 'Open' button

🗾 Open		×
GO- 🖳 • WIN-CU20	DX8JDY3D - EM_agent - 🔂 Search	
🕒 Organize 👻 🏢 Views	▼ 📑 New Folder	0
Favorite Links 6769007df96f4bf5d1 Desktop Computer Documents Pictures Nusic Recently Changed Searches Public	Name Image: Date modified Type Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Image: Date modified Imag	<u>Size</u> 40,476 k
Folders 🔨	•	
File name:	Windows Installer packag	

• Select the file and click 'Open'

COMODO Creating Trust Online

• In the 'Deploy Software' dialog, select 'Assigned'

Note: If you want to add the MST file also to the GPO, then select 'Advanced' and move to '**Deploy Software**' instruction in Step 6. If you want to add the .mst file later then see the instructions from Step 6.

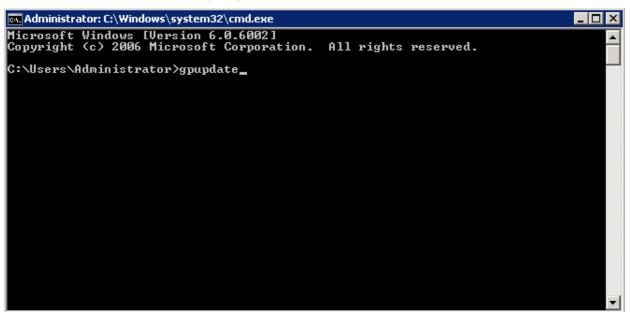
Deploy Software	×
Select deployment method:	
C Published	
Assigned	
C Advanced	
Select this option to Assign the application without modifications.	
OK Cancel	

Click 'OK'

Step 5 - Run a GPO update

In order to install the EM client package, you need to run a GPO update in the command prompt.

• Open the command prompt, type "gpupdate" and press enter.



The group policy update will run and a confirmation message displayed:

COMODO Creating Trust Online



After the group policy has been successfully updated, the endpoints must be restarted for the EM communication client to be installed.

That's it. You have now successfully enrolled Windows endpoints via AD using the GPO method. You can see the endpoints listed in the 'Devices List' screen.

Note: You may get an error message if you try to manually install the EM communication client on an endpoint where the GPO was deployed and then removed. Visit the Microsoft support site at https://support.microsoft.com/en-us/mats/program_install_and_uninstall and run the tool on the endpoint.

The device group policy that was selected in the enrollment form will be applied to the enrolled devices automatically.

If you have configured proxy settings and downloaded the .mst file then go to Step 6 to add the MST file to the newly created GPO.

Step 6 - Add MST file to the GPO

If you want to include the MST file to the GPO, then download the file after providing the details in the proxy settings fields in the form.

- After downloading the file, save it on the AD server and create a shared folder as explained in Step 3.
- If you are adding both MSI and MST files at one go, then select 'Advanced' at the end of Step 4.
- If you are adding the file later on, then open Group Policy Management, right click on the policy, then click 'Edit'

COMODO Creating Trust Online

🔜 Group Policy Management	
🛃 File Action View Window Help	_8×
Group Policy Management Group Policy Management Group Policy Management Group Policy Management Group Policy Management Composition Compositio	ettings Delegation
Group Policy Result	Can only apply to the following groups, users, and computers:
Open the GPO editor	

The 'Group Policy Management Editor' will open.

File Action View Help EM_agent_deploy [WIN - CU20x Computer Configuration Policies Software settings Software metaliate Paste Refresh Properties Help Extended Extended Windows Settings Software metaliate Preferences Paste Refresh Properties Help	🗐 Group Policy Management Editor	_ 🗆 🗵
EM_agent_deploy [WIN - CU20; Computer Configuration Software Settings EM_agent_deploy [WIN-CU20X8JDY3D.TEST.COM] Policy Select an item to view its description. Software Settings Software Settings Package Package Package Preferences Preferences Help Extended Standard Extended Standard	File Action View Help	
Computer Configuration Computer Configuration Software Settings Software Settings Software Settings Software Settings Software Settings Software Settings Package Package Package Package Poperties Proferences Help Extended Standard		
	Computer Configuration Policies Select an item to view its description. Name Computer Configuration Select an item to view its description. Name Computer Configuration Administrati Paste Refresh Properties Help Help	
MUU2 G DOLLOUC:	Adds a package.	

• Expand 'Computer Configuration' and right-click on 'Software Installation'

сомодо Creating Trust Online

Click 'New', then 'Package'				
🗾 Open		×		
WIN-CU2C	X8JDY3D - EM_agent - 🚱 Search	2		
🔄 Organize 👻 📗 Views	▼ 📑 New Folder	0		
Favorite Links 6769007df96f4bf5d1 Desktop Ocomputer Documents Pictures Music Recently Changed Searches Public	Name A Jate modified Jype Mem_SkxzFvQ7_inst 11/23/2018 2:40 Windows Installe.	✓ Size 40,476 k		
Folders 🔨	•			
File <u>n</u> ame:	em_SkxzFvQ7_installer Image: SkxzFvQ7_installer Image: SkxzFvQ7_installer Image: SkxzFvQ7_installer Image: SkxzFvQ7_installer	kages (💌 Cancel		

Click 'Open' ٠

The 'Deploy Software' dialog will open.

Deploy Software	×
Select deployment method:	
C <u>P</u> ublished	
C Assigned	
Advanced	
Select this option to configure th and to apply modifications to a p	e Published or Assigned options, ackage.
	OK Cancel

Select 'Advanced' and click 'OK'. If you select any other option, then you won't be able to add the MST file.

COMODO Creating Trust Online

Communication C	lient Properties
General Deploy	ment Upgrades Categories Modifications Security
<u>N</u> ame:	
Communication	Client
Product inform	ation
Version:	6.24
Publisher:	
Language:	English (United States)
Platform:	x86
Support inform	ation
Contact:	
Phone:	
<u>U</u> RL:	
	OK Cancel

Click 'Modifications' tab

•

Communication Client Properties		? ×
General Deployment Upgrades Categories	Modifications	Security
Modifications or transforms allow you to customiz applied to the package in the order shown in the		and are
Modifications:		
		M <u>o</u> ve Up
	M	o <u>v</u> e Down
I		
Add		
Important! Do not press OK until all transforms ar correctly. For more information, right-click on the then click What's this?		
	ОК	Cancel

COMODO Creating Trust Online

🝠 Open		×
GO- 💽 //win-cuzo	X8JDY3D\EM_mst_agent 💽 💽 Sear	rch 🖉
🕒 Organize 👻 📗 Views	👻 📑 New Folder	0
Favorite Links6769007df96f4bf5d1DesktopOcomputerDocumentsPicturesMusicRecently ChangedSearchesPublic	Name A Date modified No items match you	▼ Type ▼ Size Ir search.
Folders	▲	
File <u>n</u> ame		Windows Installer transform p 💌 <u>Open</u> Cancel

• Click 'Add' and enter the location of the shared MST file in the open dialog.

Click 'Open'

The file name will be displayed in the dialog.

🧾 Open		×
🚱 🖓 🖳 ▼ EM_mst_	igent 👻 🔂 Se	arch 🗵
🔄 Organize 👻 📗 Views	👻 📑 New Folder	0
Favorite Links Image: Boot State Image: Boot State	Name ▲ Jate modified implem_agent_fd9dcef 11/23/2018 9:3	▼ Type ▼ Size 8 MST File 4 k
Folders		No dana katalia karafara 🖉
File <u>n</u> ame	em_agent_fd9dcef9036bb1044107117	Windows Installer transform p 💌

COMODO Creating Trust Online

• Click 'Open' again.

The MST file will be added to GPO.

Communication Client Properties ? 🔀
General Deployment Upgrades Categories Modifications Security
Modifications or transforms allow you to customize the package and are applied to the package in the order shown in the following list:
Modifications:
\\\WIN-CU20X&JDY3D\EM_mst_agent\em_agent_fd9c Move Up Move Down
Add <u>R</u> emove
Important! Do not press OK until all transforms are added and ordered correctly. For more information, right-click on the Modifications list box, and then click What's this?
OK Cancel

- Click 'OK' to complete the setup.
- Open the command prompt, type gpupdate and press enter to update the GPO.

That's it, you have successfully added MST file to the GPO.

After first successful connection, the device group profile(s) will be applied and the client proxy settings will take over. Make sure the profile(s) (via device, device group, user and/or user group profiles) applied to the enrolled devices contain the same proxy settings in the client proxy settings component.

About Comodo Security Solutions

Comodo Security Solutions is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Comodo provides complete, end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats. With over 80 million installations of its threat prevention products, Comodo provides an extensive suite of endpoint, website and network security products for MSPs, enterprises and consumers.

Continual innovation and a commitment to reversing the growth of zero-day malware, ransomware, data-breaches and internet-crime distinguish Comodo Security Solutions as a vital player in today's enterprise and home security markets.

About Comodo Cybersecurity

In a world where preventing all cyberattacks is impossible, Comodo Cybersecurity delivers an innovative cybersecurity platform that renders threats useless, across the LAN, web and cloud. The Comodo Cybersecurity platform enables customers to protect their systems and data against even military-grade threats, including zero-day attacks. Based in Clifton, New Jersey, Comodo Cybersecurity has a 20-year history of protecting the most sensitive data for both businesses and consumers globally. For more information, visit comodo.com or our **blog**. You can also follow us on **Twitter** (@ComodoDesktop) or **LinkedIn**.

1255 Broad Street Clifton, NJ 07013 United States Tel : +1.877.712.1309 Tel : +1.888.551.1531 https://www.comodo.com Email: EnterpriseSolutions@Comodo.com