

Release Notes

FortiClient EMS 7.2.0



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FortiClient EMS 7.2.0 Release Notes

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Introduction

FortiClient Endpoint Management Server (EMS) is a system intended to be used to manage FortiClient installations. It uses the Endpoint Control protocol and supports all FortiClient platforms:

- Microsoft Windows
- macOS
- Linux
- Android OS
- Apple iOS
- Chrome OS

FortiClient EMS runs on a Microsoft Windows server.

This document provides the following information for FortiClient EMS 7.2.0 build 0689:

- [Special notices on page 7](#)
- [What's new on page 8](#)
- [Upgrading on page 9](#)
- [Product integration and support on page 10](#)
- [Resolved issues on page 12](#)
- [Known issues on page 18](#)

For information about FortiClient EMS, see the [FortiClient EMS 7.2.0 Administration Guide](#).

Endpoint requirements

The following FortiClient platforms are supported:

- FortiClient for Microsoft Windows
- FortiClient for macOS
- FortiClient for Linux
- FortiClient for Android OS
- FortiClient for iOS
- FortiClient for Chromebooks

See [Product integration and support on page 10](#) for FortiClient version support information.

FortiClient is supported on multiple Microsoft Windows, macOS, and Linux platforms. EMS supports all such platforms as endpoints.

Supported web browsers

The latest version of the following web browsers can be used to connect remotely to the FortiClient EMS 7.2.0 GUI:

- Google Chrome
- Microsoft Edge
- Mozilla Firefox

Internet Explorer is not recommended. You may need to enable remote access from the FortiClient EMS GUI. See [To enable remote access to FortiClient EMS](#).

Licensing and installation

For information on licensing and installing FortiClient EMS, see the [FortiClient EMS Administration Guide](#).



Ensuring that all installed software, including EMS and SQL Server, is up-to-date, is considered best practice.

Special notices

Microsoft Visual C++ installation

The EMS installation includes installation of Microsoft Visual C++ (VC) 2015. If the server already has a newer version of VC installed, the installation fails. See [VC++ 2015 Redistributable installation returns error 1638 when newer version already installed](#).

If you have a version of VC installed on your server that is newer than 2015, uninstall VC before installing EMS.

SQL Server Standard or Enterprise with 5000 or more endpoints

When managing more than 5000 endpoints, install SQL Server Standard or Enterprise instead of SQL Server Express, which the EMS installation also installs by default. Otherwise, you may experience database deadlocks. The minimum SQL Server version that FortiClient EMS supports is 2017. See the [Upgrading Microsoft SQL Server Express to Microsoft SQL Server Standard or Enterprise](#).

Split tunnel

In EMS 7.2.0, you configure application split tunnel using per-tunnel configuration, not a global configuration. If you are upgrading from an older version that uses the global application split tunnel configuration, change the configuration to per-tunnel.

SAML logins

Upon initial SAML single sign on account login, EMS creates a standard administrator for this user in *Administration > Admin Users*. A standard administrator has permissions to modify endpoints, policies, and settings. Having the EMS super administrator manually assign the proper role to the newly created login is recommended.

What's new

For information about what's new in FortiClient EMS 7.2.0, see the [FortiClient & FortiClient EMS 7.2 New Features Guide](#).

Upgrading

Upgrading from previous EMS versions



EMS 7.2.0 only supports FortiClient 7.2 and 7.0. You must first upgrade older FortiClient versions to 7.0.7 or newer before upgrading EMS to 7.2.0.

FortiClient EMS supports direct upgrade from EMS 6.2, 6.4, and 7.0. To upgrade older EMS versions, follow the upgrade procedure outlined in [FortiClient and FortiClient EMS Upgrade Paths](#).

With the endpoint security improvement feature, there are backward compatibility issues to consider while planning upgrades. See [Recommended upgrade path](#).

EMS 7.2.0 does not support legacy Fabric Agent licenses, which were in use before 2021 and have reached end-of-life (EOL). Following is a list of discontinued SKUs:

- FC1-15-EMS01-297-01-DD
- FC2-15-EMS01-297-01-DD
- FC3-15-EMS01-297-01-DD
- FC4-15-EMS01-297-01-DD
- FC1-15-EMS03-297-01-DD
- FC2-15-EMS03-297-01-DD
- FC1-15-EMS01-158-02-DD
- FC1-15-EMS02-158-02-DD

If you have the Fabric Agent licenses, you must convert the license to a different license type using the [Fortinet Customer & Service Support portal](#) before proceeding with EMS upgrade to 7.2.0. See [Upgrading from an earlier FortiClient EMS version](#) for details.

If you attempt an upgrade to EMS 7.2.0 with the legacy licenses, the EMS installer displays an error message: "Legacy Fabric Agent license is not supported after upgrade". The EMS upgrade does not proceed.

Downgrading to previous versions

FortiClient EMS does not support downgrading to previous EMS versions.

Product integration and support

The following table lists version 7.2.0 product integration and support information:

| | |
|------------------------------------|---|
| Server operating systems | <ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2 |
| Minimum system requirements | <ul style="list-style-type: none">• 2.0 GHz 64-bit processor, six virtual CPUs• 8 GB RAM (10 GB RAM or more is recommended)• 40 GB free hard disk• Gigabit (10/100/1000baseT) Ethernet adapter• Internet access is recommended, but optional, during installation. SQL Server may require some dependencies to be downloaded over the Internet. EMS also tries to download information about FortiClient signature updates from FortiGuard. <p>You should only install FortiClient EMS and the default services for the operating system on the server. You should not install additional services on the same server as FortiClient EMS.</p> |
| FortiAnalyzer | <ul style="list-style-type: none">• 7.2.0 and later• 7.0.0 and later <p>Although EMS supports the listed FortiAnalyzer versions, confirming the compatibility between your FortiAnalyzer and FortiClient versions is recommended. Otherwise, not all features may be available. See the FortiClient Release Notes. When using FortiClient with FortiAnalyzer, you should upgrade both to their latest versions. The versions between the two products should match. For example, if using FortiAnalyzer 7.2.0, use FortiClient 7.2.0.</p> |
| FortiAuthenticator | <ul style="list-style-type: none">• 6.4.0 and later• 6.3.0 and later• 6.2.0 and later• 6.1.0 and later• 6.0.0 and later |
| FortiClient (Linux) | <ul style="list-style-type: none">• 7.2.0• 7.0.2 and later |
| FortiClient (macOS) | <ul style="list-style-type: none">• 7.2.0• 7.0.2 and later |
| FortiClient (Windows) | <ul style="list-style-type: none">• 7.2.0• 7.0.2 and later |
| FortiManager | <ul style="list-style-type: none">• 7.2.0 and later• 7.0.0 and later |
| FortiOS | <ul style="list-style-type: none">• 7.2.0 and later |

| | |
|---------------------|--|
| | <ul style="list-style-type: none">• 7.0.0 and later (for zero trust network access, 7.0.6 or later is recommended)• 6.4.0 and later |
| FortiSandbox | <ul style="list-style-type: none">• 4.2.0 and later• 4.0.0 and later• 3.2.0 and later |



Installing and running EMS on a domain controller is not supported.

Resolved issues

The following issues have been fixed in version 7.2.0. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

Administration

| Bug ID | Description |
|--------|--|
| 678899 | LDAP configuration persists in EMS multitenancy global/default/non-default administration users. |
| 853647 | EMS displays no administrators found error. |
| 853830 | EMS console times out. Inactivity timeout logs off administrator despite EMS activity. |
| 871765 | Active Directory (AD) connector fails to start after upgrade from 7.0.7 to 7.2.0 if authentication credential expired. |

Dashboard

| Bug ID | Description |
|--------|--|
| 781654 | EMS does not remove dashboard outbreak alerts when endpoint disconnects. |

License

| Bug ID | Description |
|--------|---|
| 818702 | Log viewer fails to check for license expiration: type object 'License' has no attribute 'get'. |
| 821767 | FortiClient Cloud displays license expiry error when license is unexpired. |
| 870207 | EMS crashes after user applies incorrect license. |

Multitenancy

| Bug ID | Description |
|--------|--|
| 848558 | Non-default site sends <code>LIC_ED 0 </code> to FortiClient. |
| 873029 | FortiClient shows as disconnected and licenses for all multitenancy sites are removed and returned to global site after upgrading EMS from 7.0.7 to 7.2.0. |

Onboarding

| Bug ID | Description |
|--------|--|
| 819203 | Authorized user group name is not full path. |
| 822126 | Deleting SAML configuration message shows incorrect active users. |
| 835182 | The DELETE statement conflicts with the REFERENCE constraint <code>fk_Forticlient_Users_Users_machine_user_id</code> . |
| 866140 | Authorized groups do not work with SAML verification. |

ZTNA connection rules

| Bug ID | Description |
|--------|--|
| 832635 | Off-fabric FortiClient certificate serial number does not sync to FortiOS. |

System Settings

| Bug ID | Description |
|--------|---|
| 823701 | FortiClient Cloud does not allow enabling <i>Enforce User Verification</i> . |
| 839677 | EMS displays notification: Failed to send email alerts. Please check SMTP server configuration. |

Endpoint management

| Bug ID | Description |
|--------|---|
| 727076 | EMS does not process uploaded software inventory. |
| 770364 | EMS displays third-party features section for non-Windows endpoints. |
| 801583 | EMS shows clients as unprotected if they have third-party antivirus. |
| 808266 | EMS has inaccurate dashboard widget results for endpoints with Windows operating systems. |
| 819196 | The multipart identifier <code>cs.software_id</code> and <code>cs.is_missing</code> cannot be bound. |
| 821704 | EMS always reports device state as managed in verified and unverified user table even after FortiClient unregisters from EMS. |
| 825673 | EMS clears all entries after upgrade and does not allow traffic for some users. |
| 827269 | Policy is out of sync when moving endpoints using group assignment rules. |
| 834228 | EMS reports endpoint vulnerability when Vulnerability Scan is not installed on endpoint. |
| 835705 | Group assignment rules Run Rules Now option does not work. |
| 839300 | EMS fails to download PDF report of on-premise FortiSandbox events. |
| 842539 | EMS shows endpoints duplicated in multiple groups after EMS upgrade. |
| 846033 | EMS displays error during AD sync when an organizational unit's old ancestor is deleted from the domain. |

Endpoint policy and profile

| Bug ID | Description |
|--------|--|
| 818408 | Malware Protection profile antiexploit application list includes applications that FortiClient does not support. |
| 824666 | EMS does not send FortiClient status changes via syslog. |
| 832445 | Web Filter profiles are mismatched between EMS and FortiGate for cryptomining category. |
| 842084 | Profile GUI is blank. |
| 852508 | FortiClient blocks all USB sticks after adding revision in Malware Protection profile. |

Install and upgrade

| Bug ID | Description |
|--------|--|
| 828850 | Deadlocks on Users and Forticlients_users table. |
| 835824 | Upgrade from 7.0.4 to 7.0.6 fails. |

FortiGuard Outbreak Alerts

| Bug ID | Description |
|--------|---|
| 813928 | EMS fails to update EOAP signatures: type object ComplianceVerificationRuleSet has no attribute eoap_version. |

Zero Trust telemetry

| Bug ID | Description |
|--------|---------------------------------------|
| 836156 | User cannot access FortiClient Cloud. |

HA

| Bug ID | Description |
|--------|---|
| 809396 | EMS generates a generic error on high availability (HA) backup. |
| 832719 | EMS shows error while trying to restore backup. |

GUI

| Bug ID | Description |
|--------|---|
| 632427 | Software Inventory filter and sort actions in heading do not work. |
| 774880 | EMS user can import the same zero trust tagging rules multiple times by clicking <i>Import</i> button multiple times. |

Deployment and installers

| Bug ID | Description |
|--------|--|
| 842065 | FortiClient cannot connect to EMS after upgrade from 7.0.2 to 7.0.7. |
| 859123 | Only FortiClient 7.0.7 appears in installers list. EMS shows no custom installers. |

Zero Trust tagging

| Bug ID | Description |
|--------|---|
| 802599 | EMS should calculate zero trust network access (ZTNA) rules. |
| 827300 | Endpoint does not get correct zero trust network access tag. |
| 832328 | Endpoint is still tagged with threat ID rule after clearing firewall events. |
| 837163 | EMS shows hosts with indicators of compromise for Ransomware Evil (REvil) but shows details as <i>No REvil_IOC_registry_key - Compromised Endpoints (0) Found</i> . |
| 841675 | EMS receives network information but does not send it to FortiGates. |
| 874683 | EMS does not tag some endpoints with AD group after disabling <i>Evaluate on FortiClient</i> on the rule. |
| 874693 | When a rule set has an AD FortiClient-based rule and at least one non-FortiClient rule of any type, the AD rule is not loaded. |

Endpoint control

| Bug ID | Description |
|--------|---|
| 813439 | FortiClient registered with EMS IP address does not deregister from EMS when administrator enforces invitation-only registration for all endpoints. |
| 825559 | FortiClient fails to register with EMS when <i>Enforce invitation-only registration for</i> is enabled. |
| 840199 | EMS stops allowing client connections. |
| 848147 | EMS sends malformed SAML URL to FortiClient. |

Performance

| Bug ID | Description |
|--------|--|
| 801299 | spUpdateIPList and trigger_users_UPDATED errors. |

Endpoint security

| Bug ID | Description |
|--------|---|
| 783287 | Let's Encrypt ACME certificate request fails due to port 80 on autotest system. |

Other

| Bug ID | Description |
|--------|--|
| 844330 | EMS reports vulnerability to web server dictionary indexing/dictionary directory listing attack. |
| 873218 | Multiple FortiClient records share the same token ID. |

Common Vulnerabilities and Exposures

| Bug ID | Description |
|--------|---|
| 766139 | FortiClient EMS 7.2.0 is no longer vulnerable to the following CVE References: <ul style="list-style-type: none">• CVE-2021-44172 Visit https://fortiguard.com/psirt for more information. |

Known issues

The following issues have been identified in version 7.2.0. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

Dashboard

| Bug ID | Description |
|--------|---|
| 817485 | Drilldown on macOS vulnerability includes unrelated vulnerabilities. |
| 821570 | Vulnerability count on vulnerability widgets does not match the actual number of vulnerabilities. |

Endpoint management

| Bug ID | Description |
|--------|---|
| 786738 | Anti-Ransomware Events tab is visible after disabling the feature in Feature Select. |
| 792447 | EMS fails to show zero trust network access (ZTNA) feature in endpoint details enabled/disabled features section. |
| 792652 | EMS cannot delete domain. |
| 798409 | EMS does not display detected paths of vulnerabilities. |
| 823047 | After upgrading from 6.4.4 to 7.0.4, FCM Events table grows exponentially. |
| 831108 | User cannot download PDF report of Cloud Sandbox events on EMS. |
| 831359 | Forensics Analysis Download Report option opens the report instead of downloading it. |
| 836134 | Inverse selection with ! does not work for deployment package, profile, and features under All Endpoints view. |
| 845739 | VMware clones in EMS duplicate UUID. |
| 861603 | Cloud Sandbox scan event details are not visible. |
| 868104 | FortiClient does not reconnect to EMS after deploying 7.2.0 Beta 1 over 7.0.7 GA. |
| 874908 | Moving device in workgroup shows error. |

Endpoint policy and profile

| Bug ID | Description |
|--------|---|
| 466124 | User cannot change <nat_alive_freq> value. |
| 826013 | Setting Vulnerability Scan patch status to <i>Not</i> does not work. |
| 826940 | EMS does not save <temp_whitelist_timeout> in an endpoint profile. |
| 833819 | Backing up configuration files on FortiClient Cloud results in import errors. |
| 868534 | Web Filter profile synced from FortiGate keeps disabled status links in the exception list. |

License

| Bug ID | Description |
|--------|--|
| 823690 | EMS includes Removable Media Access feature when using ZTNA user-based license. |
| 827875 | Non-default site's License information page shows irrelevant license information. |
| 828944 | EMS does not show <i>A new license has been detected...</i> if synced with FortiCloud account. |
| 834686 | Allocating license to site resets if changes are done to default site license. |
| 846993 | Multitenancy-enabled EMS removes license from multiple sites. |
| 868174 | EMS shows features for future license. |

Multitenancy

| Bug ID | Description |
|--------|---|
| 777642 | Global site does not list FortiCloud license- and account-related logs. |
| 816600 | Non-default site database does not update EMS serial number after new license upload. |
| 820803 | License distribution modal shows incorrect information. |
| 868478 | FortiSASE input field is invisible for future license when the current FortiSASE is deselected in the add/edit site form. |

Fabric devices

| Bug ID | Description |
|--------|--|
| 850144 | FortiClient Cloud connection fails during HA failover. |

Zero Trust tagging

| Bug ID | Description |
|--------|--|
| 810778 | FortiClient tag information is not shared equally to connected FortiGate Fabric devices. |
| 843774 | ZTNA monitor shows VPN connected IP address when IP address range matches with LAN IP address. |
| 875503 | Error 400 "Can only enable up to 10 rules set" displays while trying to reenable EMS ZTNA tag. |

Deployment and installers

| Bug ID | Description |
|--------|---|
| 714496 | FortiClient Cloud upgrade keeps installer on instance and causes disk to have no space. |
| 764999 | EMS does not list FortiClient versions in official installer list if FDS blocks EMS from downloading said versions. |
| 783690 | The system does not prompt for reboot after user login. |
| 824936 | EMS fails to deploy FortiClient when manually created FortiClient installer is updated. |
| 874652 | After updating the FortiClient version on an assignable installer on FortiClient Cloud, the zip file contains installers for both versions. |
| 878308 | EMS displays incorrect date for next scheduled scan. |

System Settings

| Bug ID | Description |
|--------|--|
| 753951 | EMS does not recognize disabling <i>Use FortiManager for client software/signature updates > Failover</i> . |

| Bug ID | Description |
|--------|--|
| 820889 | FortiGuard services setting for FortiManager selector switch shows as disabled after configuring and logging out of EMS. |
| 829631 | User cannot disable <i>Delete Timeout</i> option. |
| 861109 | EMS does not send email alerts for Active Directory events. |

Logs

| Bug ID | Description |
|--------|--|
| 827295 | FortiClient cannot connect to FortiClient Cloud. |
| 856952 | FortiClient EMS is missing update daemon logs. |
| 871050 | EMS does not send FortiClient logon message offline to syslog server (FortiAuthenticator). |

Administration

| Bug ID | Description |
|--------|---|
| 828490 | <i>Permission Denied : Your permissions might have been updated</i> error message displays for all admin roles. |
| 867746 | Deleting large domain quickly fails. |

Performance

| Bug ID | Description |
|--------|---|
| 759729 | EMS has possible slow httpd file handle leak. |

HA

| Bug ID | Description |
|--------|---|
| 824066 | spHAKeeperAlive deadlock causes failover. |
| 860787 | With always on high availability (HA) on multitenancy-enabled in multisubnet environment, |

| Bug ID | Description |
|--------|---|
| | FCEMS_monitor stops and EMS loses all configured license seats. |
| 860903 | The \\FCM_Default_Filesync\\ directory increases in size until space is exhausted. This causes the EMS console to change nodes. |

ZTNA connection rules

| Bug ID | Description |
|--------|--|
| 838317 | EMS does not update ZTNA status display in endpoint details. |
| 868825 | ZTNA service portal does not allow for external browser for SAML authentication. |

Endpoint control

| Bug ID | Description |
|--------|--|
| 857179 | EMS sends <code>FCKARPLY: CONT 0</code> if DAS cannot access the database. |
| 863131 | GUI does not show quarantine files or shows inconsistent ones. |

GUI

| Bug ID | Description |
|--------|--|
| 717433 | Patching a vulnerability for a specific endpoint patches it on others. |
| 819205 | License widget shows Forensic license as <i>NaN used of X</i> when no license is in use. |
| 870219 | EMS deployment only shows domain NetBIOS name under endpoint groups. |
| 871491 | Deselecting an item from item list removes the deselected item. |

Avatar and social login information

| Bug ID | Description |
|--------|--|
| 830117 | EMS fails to update email address from personal information form in FortiClient. |

FortiGuard outbreak alert

| Bug ID | Description |
|--------|---|
| 819025 | With multiple sites, EMS fails to display FortiGuard outbreak detection rules downloaded from FortiGuard distribution server (FDS). |

FortiClient Cloud API

| Bug ID | Description |
|--------|--|
| 585763 | User cannot log in to FortiClient Cloud if they are using the same browser for login to on-premise EMS. Workaround: Clear the browser client cache or use a different browser. |
| 832144 | User cannot call APIs in FortiClient Cloud. Workaround: Clear the browser client cache or use a different browser. |

Other

| Bug ID | Description |
|--------|--|
| 766163 | Browser causes FortiClient Cloud issues. |
| 847870 | FortiClient Cloud does not include packaged installer when sending email invitation. |
| 868556 | EMS is missing newly added signature information in FortiGuard signature information page. |

Change log

| Date | Change Description |
|------------|---|
| 2023-01-31 | Initial release. |
| 2023-04-11 | Added SAML logins on page 7 . |
| | |
| | |



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