

Release Notes

FortiClient EMS 7.0.0



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FortiClient EMS 7.0.0 Release Notes

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Introduction

FortiClient Endpoint Management Server (EMS) is a system intended to be used to manage installations of FortiClient. It uses the Endpoint Control protocol and supports all FortiClient platforms: Microsoft Windows, macOS, Linux, Android OS, Apple iOS, and Chrome OS. FortiClient EMS runs on a Microsoft Windows server.

This document provides the following information for FortiClient EMS 7.0.0 build 0042:

- [Special notices on page 6](#)
- [What's New on page 1](#)
- [Upgrading on page 7](#)
- [Product integration and support on page 8](#)
- [Resolved issues on page 9](#)
- [Known issues on page 12](#)

For information about FortiClient EMS, see the [FortiClient EMS 7.0.0 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 8](#) 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 7.0.0 GUI:

- Mozilla Firefox
- Google Chrome
- Microsoft Edge

Internet Explorer is not recommended. Remote access may need to be enabled from the FortiClient EMS GUI.

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

FortiClient EMS 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 Enterprise with 5000 or more endpoints

When managing more than 5000 endpoints, install SQL Server 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 [FortiClient EMS Administration Guide](#).

Split tunnel

In EMS 7.0.0, 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, ensure that you change the configuration to per-tunnel.

Upgrading

Upgrading from previous EMS versions

FortiClient EMS supports direct upgrade from EMS 6.2 and 6.4.0-6.4.3. You cannot directly upgrade to EMS 7.0.0 from EMS 6.4.4. To upgrade older EMS versions, follow the upgrade procedure that [FortiClient and FortiClient EMS Upgrade Paths](#) outlines.

Downgrading to previous versions

FortiClient EMS does not support downgrading to previous EMS versions.

Product integration and support

The following table lists version 7.0.0 product integration and support information:

| | |
|------------------------------------|--|
| Server operating systems | <ul style="list-style-type: none">• Windows Server 2019. On Windows Server 2019, preinstalling Microsoft ODBC Driver 17 for SQL Server (x64) is necessary.• Windows Server 2016• Windows Server 2012 R2 |
| Minimum system requirements | <ul style="list-style-type: none">• 2.0 GHz 64-bit processor, four virtual CPUs (4 vCPU)• 4 GB RAM (8 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">• 7.0.0 and later• 6.4.0 and later |
| FortiClient (Linux) | <ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later |
| FortiClient (macOS) | <ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later |
| FortiClient (Windows) | <ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later |
| FortiOS | <ul style="list-style-type: none">• 7.0.0 and later• 6.4.0 and later |
| FortiSandbox | <ul style="list-style-type: none">• 3.2.0 and later (for detailed reports on files that FortiSandbox has detected)• 3.1.0 and later (for detailed reports on files that FortiSandbox has detected)• 3.0.0 and later• 2.5.0 and later |



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

Resolved issues

The following issues have been fixed in version 7.0.0. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

FortiClient Cloud

| Bug ID | Description |
|--------|---|
| 701904 | FortiClient Cloud displays unformatted layout for login page after fresh install. |

Endpoint management

| Bug ID | Description |
|--------|---|
| 577763 | EMS sorts VPN tunnel list randomly. |
| 627962 | FortiClient IP address shows local address on EMS while connected via tunnel instead of tunnel address. |
| 688152 | Web Filter category name overlaps with other text on blocked page. |
| 690449 | EMS shows devices that do not belong to a certain workgroup after migrating them to a different EMS server. |
| 712040 | Endpoint stays registered to EMS after manually disconnecting. |

Endpoint policy and profile

| Bug ID | Description |
|--------|---|
| 631502 | Web Filter fails to switch to AnyCast rating server when using profile imported from FortiOS. |
| 651443 | Remove duplicate <code>redundant_sort_method</code> for IPsec VPN tunnel in profiles. |
| 676077 | Endpoint policy filter does not work. |
| 686308 | User-based policy does not work when assigned to security user groups. |
| 693426 | FortiClient EMS chooses inherited policies over directly assigned policies with lower priority. |
| 694732 | <i>Test Connection</i> button for Sandbox appliance fails to work in profile. |

| Bug ID | Description |
|--------|---|
| 697817 | GUI displays error as soon as administrator tries to add a new profile. |
| 698632 | Removable media access rule in profile does not work. |

GUI

| Bug ID | Description |
|--------|---|
| 649275 | Vulnerability details only list up to 50 records. Scrolling does not load additional records. |
| 659389 | Dashboard <i>Windows Operating System</i> widget impacts GUI performance. |
| 680808 | Reset deployment button is missing from GUI. |
| 689016 | GUI is inaccessible from console application, but loads normally using a browser. |
| 689802 | Dashboard is missing widget option for Android and iOS endpoints. |
| 691390 | Endpoint Scan status drilldown page issues. |
| 697157 | Database deadlocks prevent web user interface from loading. |

Zero Trust tagging

| Bug ID | Description |
|--------|--|
| 626082 | EMS allows adding duplicate Windows Security entries for Zero Trust Tag rule. |
| 681244 | Zero Trust Tagging rule in GUI is inconsistent for User Identity rule type. |
| 689682 | EMS shows devices in Zero Trust Tag Monitor with wrong timestamps (future time). |

AD domains

| Bug ID | Description |
|--------|--|
| 576108 | Active Directory distinguished name parsing problems. |
| 625652 | Service accounts in domain are registered as devices in EMS. |
| 678471 | Group assignment rules do not work automatically for installer ID. |
| 691966 | EMS does not assign profile to endpoint after user switches from local to a domain user account. |
| 697449 | Domain is not visible and <i>Manage Domains</i> page does not load. |

Administration

| Bug ID | Description |
|--------|--|
| 677679 | EMS sends duplicate email alerts. |
| 687647 | Upgrade places FCM in single-user mode. Client registrations are blocked due to license limit being reached. |
| 688708 | User cannot back up EMS database after enabling multitenancy. |
| 689643 | EMS fails to upload custom FortiClient installer. |
| 692075 | EMS is missing admin users imported from LDAP server. |
| 694608 | Upgrade from EMS 6.2 to 6.4 fails. |
| 695595 | Group assignment rule edit schedule error. |

Other

| Bug ID | Description |
|--------|--|
| 638179 | EMS API does not work on 6.4. |
| 685065 | User cannot add new multitenancy site. |
| 688247 | Server disk I/O high with FctRepackager process. |
| 697036 | EMS shows mixed old/new licenses type information in License Information widget after EMS upgrade. |
| 697809 | FcmAdDaemon generates high volume of logs. |
| 698870 | High CPU usage on sqlservr.exe process. |
| 709419 | Special characters in assignable installers folder name trigger process to run continuously in a loop. |

Known issues

The following issues have been identified in version 7.0.0. For inquiries about a particular bug or to report a bug, contact [Customer Service & Support](#).

Endpoint management

| Bug ID | Description |
|--------|--|
| 573037 | EMS provides no information regarding real-time protection status. |

Endpoint policy and profile

| Bug ID | Description |
|--------|---|
| 690321 | EMS does not update the endpoint policy when user changes to another group. |
| 713312 | User cannot clone EMS profiles if removable media is configured. |

GUI

| Bug ID | Description |
|--------|---|
| 685701 | EMS console does not load after upgrade showing HTTP Error 500. |
| 713512 | Database backup over browser does not work. |

Administration

| Bug ID | Description |
|--------|---|
| 714167 | Local EMS user with custom role applied does not see details related to the FortiClient features under endpoint list. |

AD domains

| Bug ID | Description |
|--------|--|
| 677247 | EMS shows multiple records of same domain when Active Directory (AD) domain is added. |
| 682159 | EMS shows empty security groups when LDAP query reaches value (<code>MaxValRange</code>) limit. |
| 687927 | AD sync issues with EMS. |
| 696869 | LDAP synchronization cannot import certain endpoints. |
| 697136 | EMS issues connecting with LDAP. |
| 697620 | LDAP synchronization fails with <i>A local error occurred</i> error. |
| 710176 | AD endpoint groups with long distinguished names do not appear under <i>Manage Policies</i> after upgrade. |
| 712700 | EMS shows AD domain multiple times (duplicated). |
| 713488 | Domain name displays the same name taken from first organizational unit field. |

FortiClient Cloud

| Bug ID | Description |
|--------|---|
| 712133 | FortiClient Cloud does not push deployment package to endpoints. |
| 712215 | FortiClient cannot reach FortiClient Cloud (query timeout expired). |
| 713739 | New endpoints fail to connect to FortiClient Cloud. |

Zero Trust tagging

| Bug ID | Description |
|--------|--|
| 699908 | Dynamic tag syncing does not work after EMS - FortiGate upgrade. |
| 703319 | EMS does not tag Zero Trust Network Access Linux endpoint when connected via SSL VPN to the FortiGate. |
| 710512 | Logged-in domain Zero-Trust tag rule does not work for AD-joined macOS devices. |

Other

| Bug ID | Description |
|--------|---|
| 687815 | Changing fully qualified domain name deletes files in EMS installation directory. |

Change log

| Date | Change Description |
|------------|--------------------|
| 2021-04-27 | Initial release. |
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