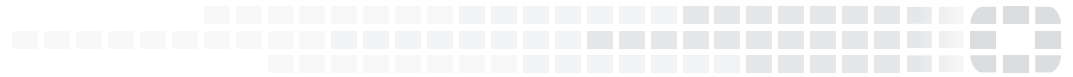




FORTINET



FortiAuthenticator - Release Notes

VERSION 5.2.1

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03/13/2018

FortiAuthenticator 5.2.1 - Release Notes

Revision 1

TABLE OF CONTENTS

| | |
|--|-----------|
| Introduction | 4 |
| Special Notices | 5 |
| TFTP boot process..... | 5 |
| Monitor settings for web-based manager access..... | 5 |
| Before any upgrade..... | 5 |
| After any upgrade..... | 5 |
| What's New | 6 |
| Upgrade Instructions | 7 |
| Hardware & VM support..... | 7 |
| Image checksums..... | 7 |
| Upgrading from FortiAuthenticator 4.x/5.0/5.1..... | 8 |
| Product Integration and Support | 10 |
| Web browser support..... | 10 |
| FortiOS support..... | 10 |
| Fortinet agent support..... | 10 |
| Virtualization software support..... | 11 |
| Third party RADIUS authentication..... | 11 |
| Resolved Issues | 12 |
| Known Issues | 13 |
| Appendix A: FortiAuthenticator VM | 14 |
| FortiAuthenticator VM system requirements..... | 14 |
| FortiAuthenticator VM firmware..... | 14 |
| Appendix B: Maximum values | 15 |
| Hardware appliances..... | 15 |
| VM appliances..... | 17 |

Introduction

This document provides a summary of new features, enhancements, support information, installation instructions, caveats, and resolved and known issues for FortiAuthenticator™ 5.2.1, build 00161.

FortiAuthenticator is a User and Identity Management solution that provides Strong Authentication, Wireless 802.1X Authentication, Certificate Management, and Fortinet Single Sign-On.

For additional documentation, please visit:

<http://docs.fortinet.com/fortiauthenticator/>

Special Notices

TFTP boot process

The TFTP boot process erases all current FortiAuthenticator configuration and replaces it with the factory default settings.

Monitor settings for web-based manager access

Fortinet recommends setting your monitor to a screen resolution of 1600x1200. This allows for all the objects in the Web-based Manager to be viewed properly without need for scrolling.

Before any upgrade

Save a copy of your FortiAuthenticator unit configuration prior to upgrading. Go to *System > Dashboard > Status* and select *Backup/Restore > Download backup file* to backup the configuration.

After any upgrade

If you are using the Web-based Manager, clear your browser cache prior to login on the FortiAuthenticator to ensure the Web-based Manager screens are displayed properly.

What's New

Note that this is a patch release. See [Resolved Issues](#) and [Known Issues](#) for more information.

For more detailed information, see the FortiAuthenticator 5.2.1 Administration Guide.

- Usernames are now included in SMS/Email token codes.
- Certificate Revocation List (CRL) enhancements.
- Active group cache enhancement.
- Increased the maximum group field size for Syslog FSSO.

Upgrade Instructions



Back up your configuration before beginning this procedure. While no data loss should occur if the procedures below are correctly followed, it is recommended a full backup is made before proceeding and the user will be prompted to do so as part of the upgrade process.

For information on how to back up the FortiAuthenticator™ configuration, see the [FortiAuthenticator Administration Guide](#).

Hardware & VM support

FortiAuthenticator™ 5.2.1 supports:

- FortiAuthenticator 200D
- FortiAuthenticator 200E
- FortiAuthenticator 400C
- FortiAuthenticator 400E
- FortiAuthenticator 1000C
- FortiAuthenticator 1000D
- FortiAuthenticator 2000E
- FortiAuthenticator 3000B
- FortiAuthenticator 3000D
- FortiAuthenticator 3000E
- FortiAuthenticator VM (VMWare, Hyper-V, KVM, and Xen)

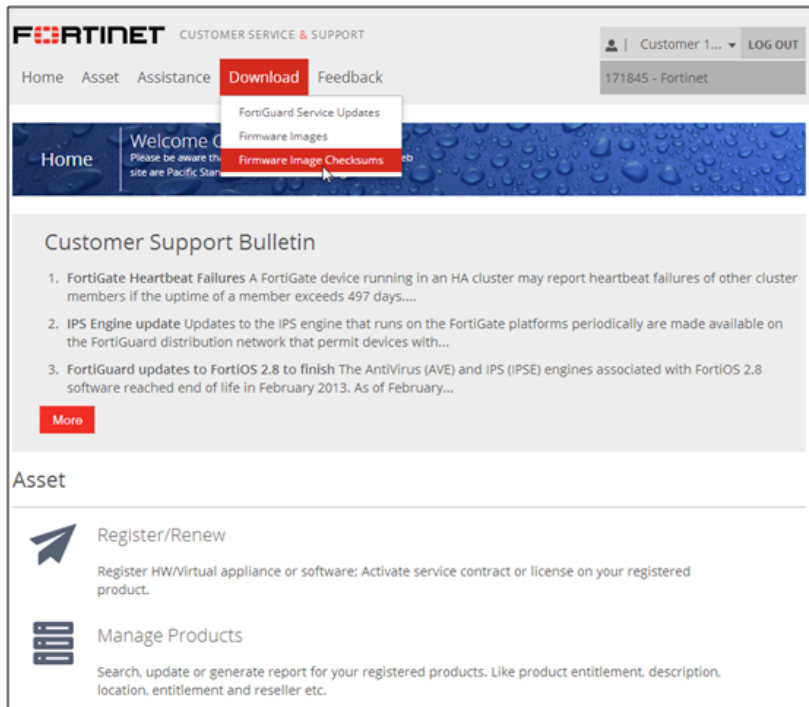
Image checksums

To verify the integrity of the firmware file, use a checksum tool to compute the firmware file's MD5 checksum. Compare it with the checksum indicated by Fortinet. If the checksums match, the file is intact.

MD5 checksums for software releases are available from Fortinet Customer Service & Support:

<https://support.fortinet.com>

Customer Service & Support image checksum tool



After logging in to the web site, in the menus at the top of the page, click *Download*, then click *Firmware Image Checksums*.

Alternatively, near the bottom of the page, click the *Firmware Image Checksums* button. (The button appears only if one or more of your devices has a current support contract.) In the *File Name* field, enter the firmware image file name including its extension, then click *Get Checksum Code*.

Upgrading from FortiAuthenticator 4.x/5.0/5.1

FortiAuthenticator™ 5.2.1 build 00161 officially supports upgrade from all versions of FortiAuthenticator™ 4.x.x., 5.0.x, and 5.1.x.



Upgrading the FortiAuthenticator 3000D from 4.0.x to 4.1.x is not supported. The workaround for this model is to upgrade from any 4.0.x version directly to 4.2.0 or higher (skipping all 4.1.x versions).

If you install 4.1.x firmware on a FortiAuthenticator 3000D it stops responding. You can get the system running again by restoring valid firmware using the TFTP boot process.

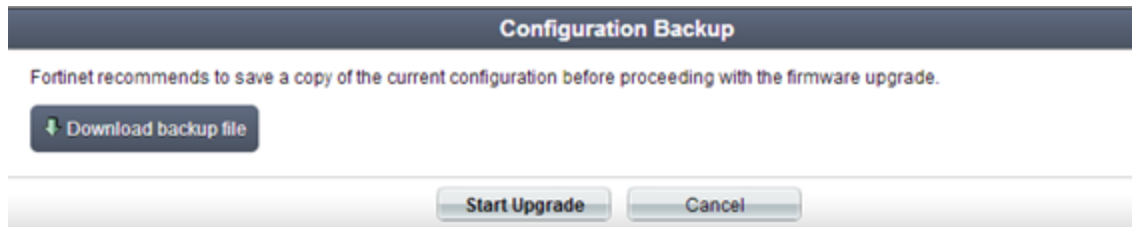
Firmware upgrade process

First, back up your configuration, then follow the procedure below to upgrade the firmware.

Before you can install FortiAuthenticator™ firmware, you must download the firmware package from the Customer Service & Support web site, then upload it from your computer to the FortiAuthenticator™ unit.

1. Log in to the Customer Service & Support web site at <https://support.fortinet.com>. In the Download section of the page, select the Firmware Images link to download the firmware.
2. To verify the integrity of the download, go back to the Download section of the login page, then click the *Firmware Image Checksums* link.
3. Log in to the FortiAuthenticator unit's Web-based Manager using the *admin* administrator account.
4. Go to *System > Dashboard > Status*.
5. In the *System Information* widget, in the *Firmware Version* row, select *Upgrade*. The *Firmware Upgrade or Downgrade* dialog box opens.
6. In the *Firmware* section, select *Choose File*, and locate the upgrade package that you downloaded.
7. Select *OK* to upload the file to the FortiAuthenticator.

Your browser uploads the firmware file. The time required varies by the size of the file and the speed of your network connection. When the file transfer is complete, the following message is shown:



It is recommended that a system backup is taken at this point. Once complete, click *Start Upgrade*.

Wait until the unpacking, upgrade and reboot process completes (usually 3-5 minutes), then refresh the page.

Product Integration and Support

Web browser support

The following web browsers are supported by FortiAuthenticator™ 5.2.1:

- Microsoft Internet Explorer versions 9 to 11
- Microsoft Edge 38
- Mozilla Firefox versions 18 to 54
- Google Chrome versions 28 to 59 (see note below)

Special Note for Google Chrome users



There is a known bug which exists in Google Chrome versions 44 and 45 where initially the GUI loads correctly, however after some time, pages will stop loading with the error on the chrome debug console *"Failed to load resource: net::ERR_INSECURE_RESPONSE"*.

This is a known issue and affects all sites using self-signed certificates and is fixed in Google Chrome version 46. Chrome bug reference:
<https://code.google.com/p/chromium/issues/detail?id=516808>

To work around this issue in the meantime, use a different browser or Upgrade to the Chrome Beta Channel.

Other web browsers may function correctly, but are not supported by Fortinet.

FortiOS support

FortiAuthenticator™ 5.2.1 supports the following FortiOS versions:

- FortiOS v5.2.11
- FortiOS v5.4.5
- FortiOS v5.6.0

Other FortiOS versions may function correctly, but may not be supported by Fortinet.

Fortinet agent support

FortiAuthenticator™ 5.2.1 supports the following Fortinet Agents:

- FortiClient v.5.x for Microsoft Windows (Single Sign-On Mobility Agent)
- FortiAuthenticator Agent for Microsoft Windows 2.0.2

- FortiAuthenticator Agent for Outlook Web Access 1.4.0
- FSSO DC Agent v.5.x
- FSSO TS Agent v.5.x

Other Agent versions may function correctly, but may not be supported by Fortinet.

For details of which Operating Systems are supported by each Agent, please see the Install Guides provided with the software.

Virtualization software support

FortiAuthenticator™ 5.2.1 supports:

- VMware ESXi / ESX 4.0, 4.1, 5.0, 5.1, 5.5 and 6.0
- Microsoft Hyper-V 2010 and Microsoft Hyper-V 2012 R2
- Linux Kernel-based Virtual Machine (KVM) on Virtual Machine Manager and QEMU 2.5.0
- Xen Virtual Machine (for Xen HVM and AWS)



Support for HA in Active-Passive and Active-Active modes has not been confirmed on the FortiAuthenticator for Xen VM at the time of the release.

See [Appendix A: FortiAuthenticator VM](#) for more information.

Third party RADIUS authentication

FortiAuthenticator uses standards based RADIUS for authentication and can deliver two-factor authentication via multiple methods for the greatest compatibility:

- RADIUS Challenge Response - Requires support by third party vendor
- Token Passcode Appended - Supports any RADIUS compatible system

FortiAuthenticator should therefore be compatible with any RADIUS capable authentication client / network access server (NAS). For more information, see the [FortiAuthenticator Two-Factor Authentication Interoperability Guide](#).

Resolved Issues

The resolved issues listed below may not list every bug that has been corrected with this release. For inquiries about a particular bug, please Fortinet Customer Service & Support:

<https://support.fortinet.com>.

| Bug ID | Description |
|---------------|--|
| 472878 | Offline tokens: Random machine-specific salts containing null bytes not handled properly when generating tokens. |
| 473430 | 802.1x MAB+Machine Auth+User Authentication do not add correct RADIUS Attributes in response to RADIUS request from FortiSwitch. |
| 461885 | Invalid custom dictionary breaks the FortiAuthenticator. |
| 453613 | FortiAuthenticator is not able to handle 200+ user 802.1x authentication request. |
| 476754 | Firmware upgrade failure. |
| 462184 | SAML IDP does not support saml2p prefix. |
| 473233 | SSOMA doesn't work with NTLM. |
| 470170 | SSO stops working. |
| 472792 | DC/TS Agents Logged-on Users shows N/A. |
| 470559 | FSSO doesn't capture the change when user is excluded from SSO. |
| 475263 | Updating group information manually via the Monitor page fails. |
| 452322 | FortiAuthenticator Halts/Impedes the Authentication process. |
| 468042 | Dynamic debug log sizes don't actually take effect. |
| 447286 | Enter Valid IP address error message for secondary LDAP GUI configuration. FQDN cannot be used. |
| 467682 | Sponsor portal: Express guest user creation with random pwd expiry causes GUI crash. |
| 448560 | Cannot create user groups. |
| 472447 | Remote Sync Rule does not work when some users are missing the search attribute. |

Known Issues

This section lists the known issues of this release, but is not a complete list. For inquiries about a particular bug, please contact Fortinet Customer Service & Support:

<https://support.fortinet.com>

| Bug ID | Description |
|--------|---|
| 451841 | FortiAuthenticator Agent service fails to start and/or disconnects after windows update. |
| 404902 | FortiAuthenticator Agent for MSWindows: Domain Name contains Hyphen doesn't work correctly. |
| 472625 | Self-service portal: GUI crash when changing remote LDAP password |
| 473716 | FortiAuthenticator event logs ending with space character causing log search issues on FortiAnalyzer. |
| 449324 | Can't delete root CA. |
| 457470 | FortiAuthenticator doesn't create the SAN DNS request. |
| 463194 | FortiAuthenticator doesn't generate CSR with SAN. |
| 464094 | Router entry index increase with every CLI edit. |
| 461156 | The FortiClient/SSOMA and DC agent overwrite each other FSSO IP information. |
| 456296 | Unable to add another attribute to Radius Custom Dictionaries. |
| 463904 | GUI error while re-enabling a user. |
| 476697 | Import local users from FortiGate config file - password incorrect, email, telephone number not imported. |
| 475821 | SMS directives ignored for system generated password delivery. |
| 462856 | Fortigate communication with FAC acting as LDAPs server. |

Appendix A: FortiAuthenticator VM

FortiAuthenticator VM system requirements

The following table provides a detailed summary on FortiAuthenticator VM system requirements. Installing FortiAuthenticator VM requires that you have already installed a supported virtual machine (VM) environment. For details, see the *Install Guide for FortiAuthenticator VM* available at <http://docs.fortinet.com>.

VM Requirements

| Virtual Machine | Requirement |
|--|----------------------------------|
| Virtual Machine Form Factor | Open Virtualization Format (OVF) |
| Virtual CPUs Supported (Minimum / Maximum) | 1 / 8 |
| Virtual NICs Supported (Minimum / Maximum) | 1 / 4 |
| Storage Support (Minimum / Maximum) | 60GB / 2TB |
| Memory Support (Minimum / Maximum) | 512 MB / 64GB |
| High Availability Support | Yes |

FortiAuthenticator VM firmware

Fortinet provides FortiAuthenticator VM firmware images in two formats:

- **.out**
Use this image for new and upgrades to physical appliance installations. Upgrades to existing virtual machine installations are also distributed in this format.
- **ovf.zip**
Use this image for new VM installations. It contains a deployable Open Virtualization Format (OVF) virtual machine package for initial VMware ESXi installations.

For more information see the FortiAuthenticator product datasheet available on the Fortinet web site, <http://www.fortinet.com/products/fortiauthenticator/index.html>.

Appendix B: Maximum values

This section lists the maximum number of configuration objects per FortiAuthenticator appliance that can be added to the configuration database for different FortiAuthenticator hardware and VM configurations.



The maximum values in this document are the maximum configurable values and are not a commitment of performance.

Hardware appliances

The following table describes the maximum values set for the various hardware models.

| Feature | | FortiAuthenticator Model | | | | |
|-----------------------|----------------------|--------------------------|------|-------|-------|-------|
| | | 200E | 400E | 1000D | 2000E | 3000E |
| System | | | | | | |
| Network | Static Routes | 50 | 50 | 50 | 50 | 50 |
| Messages | SMTP Servers | 20 | 20 | 20 | 20 | 20 |
| | SMS Gateways | 20 | 20 | 20 | 20 | 20 |
| | SNMP Hosts | 20 | 20 | 20 | 20 | 20 |
| Administration | SYSLOG Servers | 20 | 20 | 20 | 20 | 20 |
| | User Uploaded Images | 30 | 100 | 500 | 1000 | 2000 |
| | Language Files | 50 | 50 | 50 | 50 | 50 |
| Realms | | 20 | 80 | 400 | 800 | 1600 |
| Authentication | | | | | | |
| General | Auth Clients (NAS) | 166 | 666 | 3333 | 6666 | 13333 |

| Feature | | FortiAuthenticator Model | | | | |
|------------------------------------|---|--------------------------|------|-------|-------|---------------------|
| | | 200E | 400E | 1000D | 2000E | 3000E |
| | Users (Local + Remote) ¹ | 500 | 2000 | 10000 | 20000 | 40000 |
| | User Radius Attributes | 1500 | 6000 | 30000 | 60000 | 120000 |
| | User Groups | 50 | 200 | 1000 | 2000 | 4000 |
| | Group Radius Attributes | 150 | 150 | 600 | 6000 | 120000 |
| | FortiTokens | 1000 | 4000 | 20000 | 40000 | 80000 |
| | FortiToken Mobile Licenses ² | 200 | 200 | 200 | 200 | 200 |
| | LDAP Entries | 1000 | 4000 | 20000 | 40000 | 80000 |
| | Device (MAC-based Auth.) | 50 | 200 | 1000 | 2000 | 4000 |
| | RADIUS Client Profiles | 500 | 2000 | 10000 | 20000 | 40000 |
| | Remote LDAP Servers | 20 | 80 | 400 | 800 | 1600 |
| | Remote LDAP Sync Rule | 25 | 100 | 500 | 1000 | 2000 |
| | Remote LDAP User Radius Attributes | 1500 | 6000 | 30000 | 60000 | 120000 |
| FSSO & Dynamic Policies | | | | | | |
| FSSO | FSSO Users | 500 | 2000 | 10000 | 20000 | 200000 ³ |
| | FSSO Groups | 1000 | 1000 | 5000 | 10000 | 20000 |
| | Domain Controllers | 10 | 20 | 100 | 200 | 400 |
| | RADIUS Accounting SSO Clients | 166 | 666 | 3333 | 6666 | 13333 |
| | FortiGate Services | 50 | 200 | 1000 | 2000 | 4000 |
| | FortiGate Group Filtering | 250 | 1000 | 5000 | 10000 | 20000 |
| | FSSO Tier Nodes | 5 | 20 | 100 | 200 | 400 |
| | IP Filtering Rules | 250 | 1000 | 5000 | 10000 | 20000 |

| Feature | | FortiAuthenticator Model | | | | |
|-------------------------|------------------------------|--------------------------|-------|-------|--------|--------|
| | | 200E | 400E | 1000D | 2000E | 3000E |
| Accounting Proxy | Sources | 500 | 2000 | 10000 | 20000 | 40000 |
| | Destinations | 25 | 100 | 500 | 1000 | 2000 |
| | Rulesets | 25 | 100 | 500 | 1000 | 2000 |
| Certificates | | | | | | |
| User Certificates | User Certificates | 2500 | 10000 | 50000 | 100000 | 200000 |
| | Server Certificates | 50 | 200 | 1000 | 2000 | 4000 |
| Certificate Authorities | CA Certificates | 10 | 10 | 50 | 50 | 50 |
| | Trusted CA Certificates | 200 | 200 | 200 | 200 | 200 |
| | Certificate Revocation Lists | 200 | 200 | 200 | 200 | 200 |
| SCEP | Enrollment Requests | 2500 | 10000 | 50000 | 100000 | 200000 |

¹ Note that there is one metric used for the number of allowed users which is *Users*. Local Users and Remote Users share the same limit value. This enables Local Users **or** Remote Users to be equal to *Users* or for there to be a mixture of user types, however, the total number of Local and Remote Users cannot exceed the *Users* metric.

² *FortiToken Mobile Licenses* refers to the licenses that can be applied to a FortiAuthenticator, not the number of FortiToken Mobile instances that can be managed. The total number is limited by the FortiToken metric.

³ For the 3000E, the total number of concurrent SSO Users is set to a higher level to cater for large deployments.

VM appliances

The FortiAuthenticator-VM Appliance is licensed based on the total number of users and licensed on a stacking basis. All installations must start with a FortiAuthenticator VM-Base license and users can be stacked with upgrade licenses in blocks of 100, 1,000, 10,000 and 100,000 users. Due to the dynamic nature of this licensing model, most other metrics are set relative to the number of licensed users. The Calculating Metric column below shows how the feature size is calculated relative to the number of licensed users for example, on a 100 user FortiAuthenticator-VM Base License, the number of Auth Clients (NAS Devices) that can authenticate to the system is:

$$100 / 10 = 10$$

Where this relative system is not used e.g. for static routes, the *calculating metric* is denoted by a '-'. The supported figures are shown for both the base VM and a 5000 user licensed VM system by way of example.

Maximum Values - Virtual Machines

| Feature | | Model | | | |
|-----------------------|---|---------------|--------------------|---------------------|-------------------------------|
| | | Unlicensed VM | Calculating Metric | Base VM (100 Users) | Example 5000 licensed User VM |
| System | | | | | |
| Network | Static Routes | 2 | 50 | 50 | 50 |
| Messaging | SMTP Servers | 2 | 20 | 20 | 20 |
| | SMS Gateways | 2 | 20 | 20 | 20 |
| | SNMP Hosts | 2 | 20 | 20 | 20 |
| Administration | SYSLOG Servers | 2 | 20 | 20 | 20 |
| | User Uploaded Images | 5 | Users / 20 | 5 | 100 |
| | Language Files | 5 | 50 | 50 | 50 |
| Authentication | | | | | |
| General | Auth Clients (NAS) | 3 | Users / 3 | 33 | 1666 |
| User Management | Users (Local + Remote) ¹ | 5 | ***** | 100 | 5000 |
| | User RADIUS Attributes | 15 | Users x 3 | 300 | 15000 |
| | User Groups | 3 | Users / 10 | 10 | 500 |
| | Group RADIUS Attributes | 9 | Users x 3 | 300 | 15000 |
| | FortiTokens | 10 | Users x 2 | 200 | 10000 |
| | FortiToken Mobile Licenses (Stacked) ² | 3 | 200 | 200 | 200 |
| | LDAP Entries | 20 | Users x 2 | 200 | 10000 |
| | Device (MAC-based Auth.) | 1 | Users / 10 | 10 | 500 |

| Feature | | Model | | | |
|------------------------------------|------------------------------------|---------------|----------------------|---------------------|-------------------------------|
| | | Unlicensed VM | Calculating Metric | Base VM (100 Users) | Example 5000 licensed User VM |
| | RADIUS Client Profiles | 3 | Users | 100 | 10000 |
| | Remote LDAP Servers | 4 | Users / 25 | 4 | 200 |
| | Remote LDAP Sync Rule | 1 | Users / 20 | 5 | 250 |
| | Remote LDAP User Radius Attributes | 15 | Users x 3 | 300 | 15000 |
| FSSO & Dynamic Policies | | | | | |
| FSSO | FSSO Users | 5 | Users | 100 | 5000 |
| | FSSO Groups | 30 | Users / 2 | 50 | 2500 |
| | Domain Controllers | 3 | Users / 100 (min=10) | 10 | 50 |
| | RADIUS Accounting SSO Clients | 10 | Users | 100 | 5000 |
| | FortiGate Services | 2 | Users / 10 | 10 | 500 |
| | FortiGate Group Filtering | 30 | Users / 2 | 50 | 2500 |
| | FSSO Tier Nodes | 3 | Users / 100 (min=5) | 5 | 50 |
| | IP Filtering Rules | 30 | Users / 2 | 50 | 2500 |
| Accounting Proxy | Sources | 3 | Users | 100 | 1000 |
| | Destinations | 3 | Users / 20 | 5 | 250 |
| | Rulesets | 3 | Users / 20 | 5 | 250 |
| Certificates | | | | | |
| User Certificates | User Certificates | 5 | Users x 5 | 500 | 25000 |
| | Server Certificates | 2 | Users / 10 | 10 | 500 |

| Feature | | Model | | | |
|-------------------------|------------------------------|---------------|--------------------|---------------------|-------------------------------|
| | | Unlicensed VM | Calculating Metric | Base VM (100 Users) | Example 5000 licensed User VM |
| Certificate Authorities | CA Certificates | 3 | Users / 20 | 5 | 250 |
| | Trusted CA Certificates | 200 | 200 | 200 | 200 |
| | Certificate Revocation Lists | 5 | 200 | 200 | 200 |
| SCEP | Enrollment Requests | 5 | Users x 5 | 2500 | 10000 |

¹ Note that there is one metric used for the number of allowed users which is *Users*. Local Users and Remote Users share the same limit value. This enables Local Users **or** Remote Users to be equal to *Users* or for there to be a mixture of user types, however, the total number of Local and Remote Users cannot exceed the *Users* metric.

² *FortiToken Mobile Licenses* refers to the licenses that can be applied to a FortiAuthenticator, not the number of FortiToken Mobile instances that can be managed. The total number is limited by the FortiToken metric.



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