



# FortiRecorder™ v7.0.4 GA

## Release Notes



## FortiRecorder v7.0.4 GA Release Notes

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# Introduction

This document provides a summary of enhancements, installation instructions, deployment scenarios and performance guidelines for FortiRecorder v7.0.4 release build 077. Please review this document before installing or upgrading FortiRecorder.

For more information on installing or upgrading your FortiRecorder device, see the FortiRecorder Administration Guide. The Administration Guide can be found at <http://docs.fortinet.com/fortirecorder/admin-guides>

## Supported models

The following models are supported in FortiRecorder v7.0.4:

- FortiRecorder-400F Network Video Recorder with 1x4TB (4x8TB max) HD
- FortiRecorder-400D Network Video Recorder with 2x3TB (4x4TB max) HD
- FortiRecorder-200D-Gen02 Network Video Recorder with 3TB HD
- FortiRecorder-200D Network Video Recorder
- FortiRecorder-100D Network Video Recorder
- FortiRecorder-100G Network Video Recorder
- FortiRecorder-VM (64bit) Network Video Recorder for
  - VMware vSphere Hypervisor ESX/ESXi v6.0, v6.7, v7.0 and higher
  - Microsoft Hyper-V 2008 R2, 2012, 2012 R2 and 2016
  - Citrix XenServer v5.6sp2, 6.0
  - KVM (qemu 2.12.1 and higher, OpenSource XenServer 7.4 and higher)
  - AWS (EC2 PAYG)
  - Azure (BYOL)
- FortiAPCam-214B Network Camera and Access Point
- FortiCam-20A Network Camera
- FortiCam-CB20 Network Camera
- FortiCam-CB50 Network Camera
- FortiCam-FB50 Network Camera
- FortiCam-FD20 Network Camera
- FortiCam-FD20B Network Camera
- FortiCam-FD40 Network Camera
- FortiCam-FD50 Network Camera
- FortiCam-FE120 Network Panoramic Camera
- FortiCam-MB13 Network Camera
- FortiCam-MB40 Network Camera
- FortiCam-MD20 Network Camera
- FortiCam-MD40 Network Camera

- FortiCam-MD50 Network Camera
- FortiCam-MD50B Network Camera
- FortiCam-OB20 Network Camera
- FortiCam-OB30 Network Camera
- FortiCam-PD50 Network PTZ Camera
- FortiCam-SD20 Network PTZ Camera
- FortiCam-SD20B Network PTZ Camera
- FortiCam-CD51 Camera
- FortiCam-CD55 Camera
- FortiCam-CD51-C Camera
- FortiCam-CD55-C Camera
- FortiCam-FE120B Camera
- FortiCam-MC51 Camera
- FortiCam-MC51-C Camera

## Summary of changes

The following is a list of the enhancements in FortiRecorder v7.0.4:

- New features
- Improvements
- Bug fixes
- Vulnerabilities
- Known issues

# Special Notices

## Monitor settings for Web UI

Fortinet recommends setting your monitor to a screen resolution of at least 1280x1024. This allows for objects in the web UI to be viewed properly.

## Recommended Web browsers and plugins

- Microsoft Edge 120
- Firefox 120 or higher
- Safari 17 or higher
- Chrome 120 or higher
- H.265 display is supported on Microsoft Edge and Apple Safari. For Microsoft Edge it depends on hardware decoding support of the workstation.

## Camera discovery method

As of v2.0.0 FortiRecorder supports UPnP, mDNS and ONVIF discovery of cameras.

FortiRecorder also allows defining a IP search range for camera discovery in System-Network-Discovery.

## FortiCentral Windows client compatibility

It is recommended to use FortiRecorder v7.0.4 in connection with FortiCentral v7.0.

Using FortiCentral v6.4.x is supported, but may have some limitations.

## FortiRecorder MIB file

An SNMP MIB file for FortiRecorder is available from the FortiRecorder download directory on the support site.

# New Features

The following section highlights the new features in the FortiRecorder v7.0.4 release.

## New Features

- None

## Improvements

- Provide performance warning when compression is enabled
- Motion detection for FCM-CD5x / FCM-MC51 and corresponding cloud cameras now supports parameters Item size and Sensitivity
- Improve video export for FRC based cloud cameras to 30min
- Support Zero-penalty recordings for ONVIF cameras
- Reboot cameras in motion-only mode if streaming permanently fails
- Updated IOS push notification

## Bug fixes

- FRC based cloud cameras
  - show as online even when there is a configuration issue
  - Clean up client streaming sessions while camera configures
  - Fix potential crash when streaming audio
- Fix some cases where camera remains in configuration state, preventing normal operation
- Fix Remote Storage video recordings get deleted after changing the Camera name on FRC
- FRC-100G: Fix potential file system corruption when system is under heavy load
- Fix potential configuration error when performing video orientation change
- Mantis 0977711: Viewer profile does not allow user to access camera live view
- Mantis 0959134: FortiRecorder keeps reverting some camera to zero IP
- Mantis 0863278: Motion detection events are not always being marked
- Mantis 0952136: Failed to upgrade FortiCam-SD20 camera firmware from v1 to v1.2
- Mantis 0882861: FRC 7.0 on KVM, adding a new logical drive gives an error

## Vulnerabilities

- Mantis 0973342: Upgrade ffmpeg to resolve CVE-2023-46407
- Mantis 0978126: Upgrade libcap to 2.66-4
- Mantis 0947726: Upgrade file to 5.43
- Mantis 0974323: Upgrade Apache http\_server to 2.4.58

- Mantis 0985980: OpenSSH Terrapin attack (CVE-2023-48795)
- Mantis 0975717: Upgrade traceroute to 2.1.3

## Known issues

- None

# Firmware Upgrade/Downgrade Information

## Upgrading from earlier versions

Fortinet advises to always backing up the NVR configuration before performing an upgrade.

Upgrading to v7.0.4 from v6.4.x is fully supported. For earlier versions, a consecutive upgrade to v6.4.0 is recommended.

**Note:** If v6.0.0 or later installation is planned, it is essential to perform a 2.7.x backup in order to keep a downgrade path. See details on downgrading below.

Upgrading FRC-400D to v2.5.5 or later is supported, but requires changing BIOS settings in order to perform a software reboot (only reset button supported). Ask Fortinet support for help with the procedure.

## Downgrading to earlier versions

Fortinet does generally not recommend downgrading because there may be a loss of configuration information.

# FortiRecorder-VM

## Licensing

FortiRecorder-VM is licensed based on the number of active (enabled) cameras and uses a stackable licensing model. The available license SKUs are:

- FRC-VM-Base – includes 10 camera license
- FRC-VM-10 – adds 10 cameras to the Base license
- FRC-VM-50 – adds 50 cameras to the Base license
- FRC-VM-100 – adds 100 cameras to the Base license

There are no other restrictions to the license other than the number of active cameras – i.e. there is no restriction on the number of virtual CPUs, disk space, etc.

The current maximum number of active cameras supported by FortiRecorder-VM is 1010 – i.e. you cannot currently license more than 1010 active cameras per FortiRecorder-VM installation.

After placing an order for FortiRecorder-VM, a license registration code is sent to the email address used in the order form. Use the license registration code provided to register your FortiRecorder- VM with Customer Service & Support at <https://support.fortinet.com>.

Upon registration, you can download the license file. You will need this file to activate your FortiRecorder- VM. You can configure basic network settings from the CLI to complete the deployment. Once the license file is uploaded, the CLI and Web-based Manager are fully functional.

## Trial License

When FortiRecorder-VM is first installed, it will have a trial license. The trial license supports a maximum of 5 active cameras for 45 days. All features and functionality are available with a trial license except 3<sup>rd</sup> party camera support of more than one camera.

## Evaluation License

The FRC-VM-Base SKU can be ordered as an evaluation license. The FRC-VM-Base SKU supports 10 active cameras. All features and functionality are available with an evaluation license including adding 3<sup>rd</sup> party camera licensing of more than one camera.

## Installation notes

Refer to the FortiRecorder-VM Installation Guide for installation details. The Installation Guide can be found at <https://docs.fortinet.com/document/fortirecorder/7.0.0/vm-install-guide>.

# ONVIF cameras

## Licensing

FortiRecorder supports using ONVIF compliant cameras from third-party vendors.

In order to enable third-party support for a camera channel use the following license SKUs:

- FRC-EXC-1 – adds third-party support to 1 camera channel
- FRC-EXC-5 – adds third-party support to 5 camera channels
- FRC-EXC-10 – adds third-party support to 10 camera channels
- FRC-EXC-20 – adds third-party support to 20 camera channels

These licenses are stackable and perpetual. They do not add to the maximum number of cameras, but enable third-party support for existing cameras.

## Trial License

Each FortiRecorder comes with one third-party channel available for free evaluation when no license is installed.

It is recommended to use this in order to confirm compatibility with the specific ONVIF camera model.

# Face Recognition AI

## Licensing

All FortiRecorder models except FRC-100D/G can be licensed to run Face Recognition analytics.

It requires an active 'FortiGuard AI DB service' SKU.

The license activates up to two analytics channels for appliances and theoretically unlimited for VM installations, although CPU load will restrict the usable number.

If the license is expired or invalid, only the last 7 days of Face Recognition data (Face Cluster, Face Timeline, Events, and Activity) will be displayed.

Activation of the license requires Internet access for the recorder.

After initial license verification and analytics module download the face recognition is working without Internet connection for the duration of the license.

## Trial License

Each FortiRecorder (except FRC-100D/G) comes with one face recognition channel available for trial. It is limited to a 7-day history and requires Internet access for downloading the analytics module.

# Cloud Mode for cameras

## Licensing

All FortiRecorder models can be licensed to allow connected cameras to be managed and accessed from the cloud.

In order to enable cloud support for a camera channel use the following license SKUs:

- FRC-CLM-20 – adds cloud support for 20 camera channels

This license is stackable and perpetual. They do not add to the maximum number of cameras, but enable cloud management and access for existing cameras.

Also requires subscription FC1-10-FCCLD-518-02-DD for each camera that is monitored from the cloud.

# Camera deployment scenarios

Cameras are deployed in two basic scenarios: local to the NVR and remote to the NVR. FortiCamera deployments can combine both scenarios.

**Note:** Cameras should always be placed in a separated subnet isolated from outside to ensure only FortiRecorder can control access to/from camera network. Use of a dedicated FortiRecorder port or VPNs is recommended.

## Local camera deployments

Local cameras deployments have two specific scenarios:

1. Cameras are installed on the same network as the NVR.

Installing the cameras on the same subnet as the NVR is the easiest deployment scenario since the NVR can automatically discover the cameras.

2. Cameras are installed on a local network, but there are one or more routers between the NVR and the cameras.

If there are routers between the cameras and the NVR, the routers must be configured to allow discovery packets (mDNS multicast, UPnP and ONVIF) between the camera network and the NVR network in order for the NVR to automatically discover the cameras. The FortiRecorder will be able to detect if the camera changes IP address. You can leave the address mode as DHCP or change it to static.

If the FortiRecorder cannot discover cameras on a different network, the cameras can be added manually. The cameras should be deployed so that the IP address does not change, either by using MAC - IP reservation on the DHCP server or by assigning a static IP address when configuring the camera.

## Remote camera deployments

Remote camera deployments refer to scenarios where there is a firewall between the NVR and the cameras – i.e. camera discovery will not work and the cameras will likely have virtual IP addresses on the firewall. The cameras are configured by selecting the VIP address mode on the camera configuration page.

# Performance Guidelines

There are two components to consider when looking at FortiRecorder performance – the NVR (FortiRecorder) and the client computer with FortiRecorder Central or a browser.

Overall FortiRecorder performance is a combination of the video input (video compression, image quality level, complexity of the scene, video resolution, frame rate per second, number of cameras) and the video output (to the clients for live views and playback). If Remote storage is attached as a NAS, then this extra bandwidth has to be considered (depending on video input and storage options). A separate network on a dedicated port is recommended.

The performance bottleneck in a FortiCamera deployment will likely be the network bandwidth to and from FortiRecorder and the CPU performance of the computer running FortiCentral or a browser client, which must decode and render the video streams from the NVR. Displaying multiple video streams on the client is very CPU intensive.

## NVR performance

### Number of supported cameras

The FortiRecorder-200D and FortiRecorder-400D/F can support up to 64 cameras depending on the configuration. The FortiRecorder-100D is suitable for max 16 cameras. For FortiRecorder-VM the number of supported cameras is dependent on the hardware configuration of the VMware server and the number of licensed cameras.

### General performance factors

The following factors affect the input side of performance:

- Total bandwidth of video streams from the cameras (i.e. not just the number of cameras)
- The video recording types (motion only or continuous) per camera
- The video stream parameters per camera – i.e. resolution, frame rate, bitrate mode (constant or variable) and the bitrate mode parameters (bitrate or image quality).
- The number of detection events being received and the number of associated snapshots and clips being generated for display in the event monitor.
- Storage settings – moving recordings from local to remote storage, NAS model and type, network connectivity to NAS, recompression and deleting of continuous recordings when detection recordings have to be kept.

The following factors affect the output side of performance:

- Number of administrator/operator/viewer sessions
- Peak number of simultaneous administrator/operator/viewer live and playback views
- The video stream parameters per camera view – i.e. resolution, frame rate, bitrate mode (constant or variable) and the bitrate mode parameters (bitrate or image quality).

## Variable versus Constant versus Constrained bit rate

Variable Bit Rate mode means the bandwidth used by the camera will vary according to what the camera is seeing and the video profile settings. The video profile settings for the variable bit rate mode are resolution, frame rate and image quality. High resolution creates more data than medium or low resolution (see following sections for more detail). The degree of motion present in a video stream also affects the amount of data created.

Constant Bit Rate mode means the bandwidth used by the camera will stay relatively constant regardless of what the camera is seeing. The constant bit rate mode is therefore more predictable in deployments where bandwidth and/or storage capacities are important considerations. The video profile settings for constant bit rate mode are resolution, frame rate and bit rate. The bandwidth used by the stream is dictated by the bit rate setting.

In general, using the variable bit rate mode results in relatively consistent video quality but fluctuating bandwidth and using the constant bit rate mode results in varying video quality but predictable bandwidth. Choosing a high bandwidth constant bit rate mode avoids the video quality drop e.g. during high motion, but may use some unnecessary bandwidth during times of no activity.

However, in most cases the difference in video quality between the variable and constant bit modes is negligible (assuming the same resolution frame rates and scene) and the constant bit rate mode produces more reliable output from the cameras.

Constrained bitrate mode is a combination of variable and constant bitrate modes. The profile settings are resolution, framerate, video quality and max bitrate. This will allow the camera to adjust the bitrate to achieve the desired quality level, but not higher than the max bitrate.

For cameras that support this mode it is an ideal combination that can guarantee a certain retention time like the constant mode while not wasting bandwidth and only using the needed rate like the variable mode.

## Bandwidth per camera or live view

Depending on resolution, frame rate and video quality a camera using H.264 compression may generate the following bitrates (examples):

- 352 x 240 @ 30 FPS, high quality = 0.4 Mbps
- 720 x 576 @ 30 FPS, high quality = 1 Mbps
- 1280 x 720 @ 30 FPS, high quality = 2 Mbps
- 1920 x 1080 @ 30 FPS, high quality = 4 Mbps
- 1920 x 1080 @ 30 FPS, medium quality = 2.8 Mbps
- 1920 x 1080 @ 30 FPS, low quality = 2 Mbps
- 1920 x 1080 @ 10 FPS, high quality = 2.4 Mbps
- 1920 x 1080 @ 10 FPS, low quality = 1.2 Mbps

Please note that these are estimates. If the scene is less complex (indoor with little detail and not much motion), or the camera has little noise (daylight, good digital noise reduction) the required bandwidth can be lower. For H.265 multiply the bitrates with a factor of 0.5-0.75.

## FortiRecorder maximum bandwidth

Recommended maximum total camera bandwidth usage for different FortiRecorder models and setup environments.

| FRC Model     | Continuous | Continuous with NAS | Continuous with motion | Continuous with motion and NAS |
|---------------|------------|---------------------|------------------------|--------------------------------|
| FRC-100D      | 90 Mbps    | 60 Mbps             | 60 Mbps                | 60 Mbps                        |
| FRC-100G      | 100 Mbps   | 90 Mbps             | 80 Mbps                | 70 Mbps                        |
| FRC-200D gen1 | 90 Mbps    | 55 Mbps             | 50 Mbps                | 50 Mbps                        |
| FRC-200D gen2 | 135 Mbps   | 135 Mbps            | 130 Mbps               | 130 Mbps                       |
| FRC-400D      | 170 Mbps   | 160 Mbps            | 140 Mbps               | 130 Mbps                       |
| FRC-400F      | 200 Mbps   | 155 Mbps            | 160 Mbps               | 140 Mbps                       |

Note: These values have been determined experimentally in a lab setting and do not represent hard limits. Performance degrades gradually with symptoms like sluggish responses or some dropped video frames. Real world performance depends on many factors including network environment and NAS types. The motion detection rate in the table was 13% based on 1 detection of 40s length every 5min per camera.

There are several widgets available in the recorder dashboard to help with sizing and to detect skips in recordings. The camera bandwidth widget can graph bandwidth usage for all or a selected group of cameras. The skip widget can show skipped frames for each camera recording, which has to be related to possible missing frames due to network stream issues as indicated in the gaps widget.

## Storage capacity

Video retention depends on the available storage capacity and the total amount of video bandwidth from the cameras. The following are some examples for FortiRecorder 100D, 200D and 400D configured with different camera parameters to demonstrate the video retention period.

FortiRecorder-100D has 1TB HD. For 4 cameras at 2 Mbps each this will yield 12 days of recording.

FortiRecorder-200D with 3TB HD and 24TB remote storage. For 32 cameras at 2Mbps each this will provide 42 days of recording.

FortiRecorder-400D has 6TB HD. For 16 cameras at 1.5Mbps this will yield 25 days of recording.

A basic rule of thumb for doing a quick storage capacity calculation is:

1TB HD can store 1 camera configured to consume 1Mbps for approximately 100 days.

Therefore:

1TB HD can store 1 camera configured to consume 2Mbps for approximately 50 days.

6TB HD can store 10 cameras configured to consume 2Mbps each for approximately 30 days.

For more detailed bandwidth and storage consumption calculations, please refer to FortiCamera Bandwidth Calculator User Guide on [docs.fortinet.com](https://docs.fortinet.com).

## Client Performance

If you need to display 8 or more camera live views, you may need to configure the second camera stream so that viewing is done at a lower frame rate or resolution, depending on how powerful the client PC is. RAM is less important than CPU for rendering video.

Video playback is very CPU intensive. If you are experiencing choppy video playback and cameras “freezing” during playback, you likely have a client performance problem. Use the diagnostic tools available on your client OS and look at the CPU usage when you are experiencing video problems. If possible, keep the CPU usage below 50%.

To optimize client performance, use the video and camera profiles to define and assign a second video stream for each camera. To increase the number of live views the client computer can display, or to reduce the CPU requirement for a given number of live views, reduce the resolution, quality and/or frames per second of the second video streams.

10 FPS is a good general setting for live views, which provides a reasonable frame rate for the live views, but significantly reduces the load on the client (compared to 30 FPS which is more ideal for higher traffic area surveillance)..

# Image Checksums

To verify the integrity of the firmware file, use a checksum tool and 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 Fortinet software and firmware releases are available from [Fortinet Customer Service & Support](#). After logging in to the web site, near the bottom of the page, click the *Firmware Checksums* button. (The button appears only if one or more of your devices have a current support contract.) In the *File Name* field, enter the firmware image file name including its extension, then click *Get Checksum Code*.

The screenshot shows the Fortinet Customer Service & Support website. The top navigation bar includes the Fortinet logo, a 'Home' button, and links for 'Asset', 'Assistance', 'Download', and 'Feedback'. A user profile icon and 'LOG OUT' link are on the right. Below the navigation bar is a blue banner with 'Home', 'Welcome', and a note about Pacific Standard Time. A red 'About To Expire' badge with the number '1' is on the right. The main content area features a 'Customer Support Bulletin' with three items and a 'More' button. Below this is the 'Asset' section with 'Register/Renew' and 'Manage Products' options. The 'Assistance' section contains 'Create a Ticket', 'View Active Tickets', 'Contact Support', 'Manage Tickets', and 'Technical Web Chat'. The 'Download' section at the bottom has three buttons: 'Service Updates', 'Firmware Images', and 'Firmware Checksums' (which is highlighted with a red border). To the right of the 'Download' section is a 'Quick Links' area with links to 'Forti-Companion', 'Tickets Creation Guide', 'Product Life Cycle', and 'CSS Reference Guide'.

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CUSTOMER SERVICE & SUPPORT

Home Asset Assistance Download Feedback

Home Welcome  
Please be aware that all dates and times shown on this web site are Pacific Standard Time or Pacific Daylight Time.

About To Expire  
1

### Customer Support Bulletin

1. IPS Engine update Updates to the IPS engine that runs on the FortiGate platforms periodically are made available on the FortiGuard distribution network that permit devices with...
2. FortiGuard updates to FortiOS 2.8 to finish The AntiVirus (AVE) and IPS (IPSE) engines associated with FortiOS 2.8 software reached end of life in February 2013. As of February...
3. FortiGate System Freeze with FortiOS 5.0.5 Certain models of FortiGates as listed below, may experience a hang or system freeze condition when a very heavy load of HTTP ...

More

### Asset

Register/Renew  
Register HW/Virtual appliance or software: Activate service contract or license on your registered product.

Manage Products  
Search, update or generate report for your registered products. Like product entitlement, description, location, entitlement and reseller etc.

### Assistance

Create a Ticket  
The recommended way to contact Fortinet support team for your registered product. Please provide detailed information in the ticket to ensure efficient support.

View Active Tickets  
Check latest active tickets for current user, update ticket information or change ticket status.

Contact Support  
Contact Information of Fortinet worldwide support centers.

Manage Tickets  
Check ticket status, add comment, update contact or view history etc.

Technical Web Chat  
Provide quick answers on-line for general technical questions.

### Download

Service Updates

Firmware Images

Firmware Checksums

### Quick Links

- Forti-Companion
- Tickets Creation Guide
- Product Life Cycle
- CSS Reference Guide

