



FortiCentral v6.0.1 GA Release Notes



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Oct 9th, 2020

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Change Log

Date	Change Description
2014-12-02	Initial release.
2015-03-05	V1.1 GA
2015-07-09	V1.2 GA
2016-02-25	V1.3 GA
2016-06-10	V1.4 GA
2016-08-05	V1.4.1 GA
2016-12-22	V1.5 GA
2017-04-21	V1.6 GA
2018-02-09	V1.7 GA
2018-08-08	V1.7.1 GA
2019-01-24	V1.8.0 GA
2019-05-27	V1.9.0 GA
2020-03-11	V6.0.0 GA
2020-10-09	V6.0.1 GA

Introduction

This document provides a summary of enhancements, installation instructions, deployment scenarios and performance guidelines for FortiCentral v6.0.1 release build 0016. Please review this document before installing or upgrading FortiCentral.

For more information, see the FortiCentral User Guide available at <http://docs.fortinet.com/fortirecorder/admin-guides>. Search for “FortiRecorder Central” or “FortiCentral”.

Note: FortiRecorder Central has been renamed to FortiCentral with v1.7.0 GA release.

Supported models

The following models are supported in FortiCentral v6.0.1:

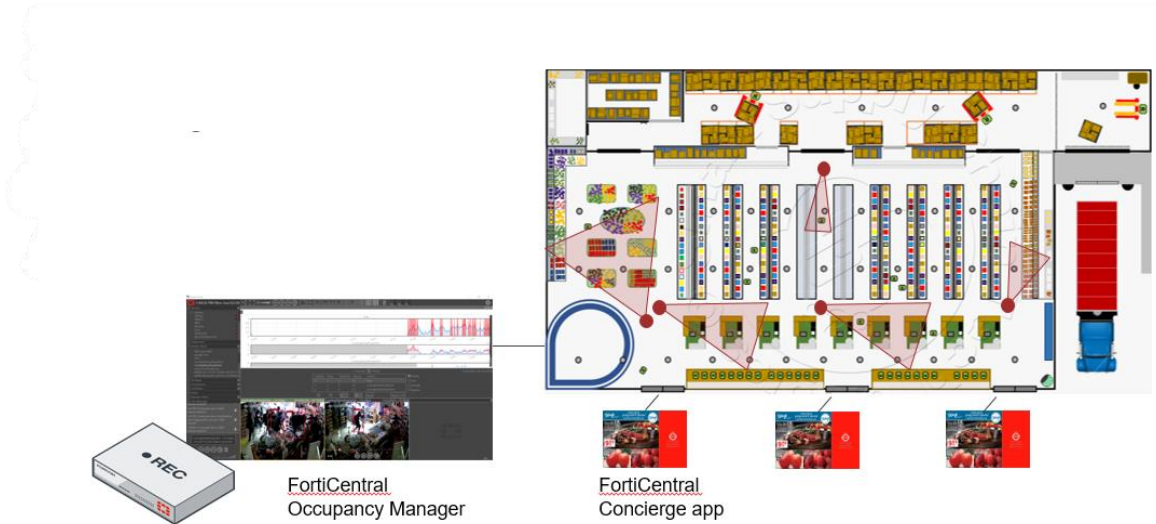
- FortiRecorder-400F Network Video Recorder with 1x4TB (4x8TB max) HD
- FortiRecorder-400D Network Video Recorder with 2x3TB (4x4TB max) HD
- FortiRecorder-200D-Gen02 Network Video Recorder with 3TB HD
- FortiRecorder-200D Network Video Recorder
- FortiRecorder-100D Network Video Recorder
- FortiRecorder-VM (64bit) Network Video Recorder for
 - VMware vSphere Hypervisor ESX/ESXi v5.0 and higher
 - Microsoft Hyper-V 2008 R2 and 2012
 - Citrix XenServer v5.6sp2, 6.0
 - KVM (qemu 0.12.1)
 - AWS (EC2 PAYG)
- FortiCam-20A Network Camera
- FortiCam-MB40 Network Camera
- FortiCam-MB13 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-FD20 Network Camera
- FortiCam-FD20B Network Camera
- FortiCam-FD40 Network Camera
- FortiCam-FD50 Network Camera
- FortiCam-FB50 Network Camera
- FortiCam-CB20 Network Camera
- FortiCam-CB50 Network Camera

- FortiCam-SD20 Network PTZ Camera
- FortiCam-SD20B Network PTZ Camera
- FortiCam-FE120 Network Panoramic Camera
- FortiAPCam-214B Network Camera and Access Point

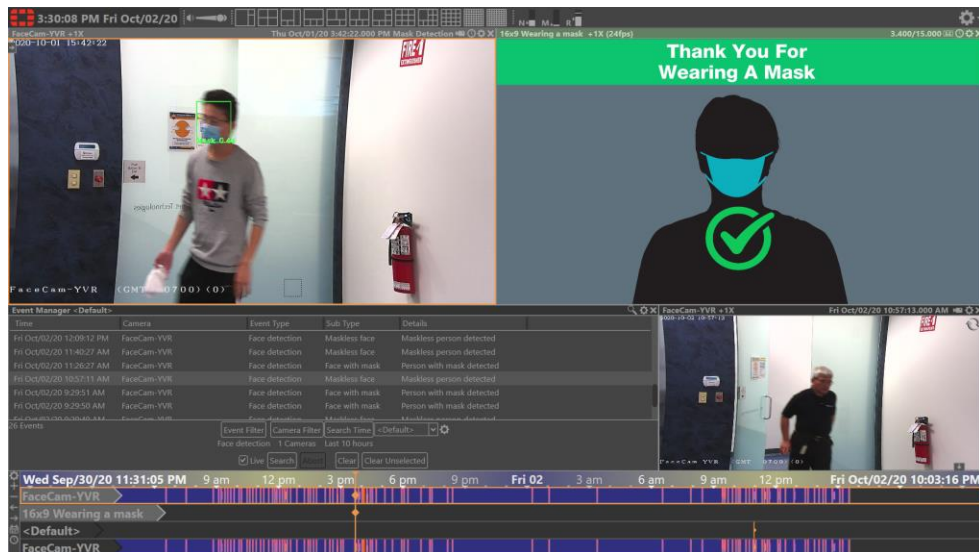
Summary of new features

The following is a list of enhancements in FortiCentral v6.0.1:

- Occupancy control
Automatically apply social distancing guidelines



- Mask detection AI
Detect persons wearing and not wearing face masks.



- 3D Maps
Draw walls in 3D on floorplans and more.
- Usability Improvements

- GUI enhancements
- System/FRC Enhancements
- FortiView improvements

FortiRecorder firmware for FortiCentral

Starting with FortiRecorder v2.0.0 firmware release FortiCentral is supported as a Windows client for all FortiRecorder models and FortiCameras.

It is recommended to use v6.0.1 of FortiCentral with v6.0.4 of FortiRecorder or higher.

Installation Information

For more information, see the FortiCentral User Guide.

- Enable connections to FortiCentral in the FortiRecorder Network Configuration: 'FRC-Central' access in the port interface (default).
- Connection between FortiRecorder and FortiCentral via TCP 8550 (configurable)
- After initial login admin/blank create a new admin with new password and add recorder connections in Settings.
- The user credentials presented for logging into FortiCentral are used to log into the connected recorders. Therefore the local user account must be configured at the recorder as well for successful authentication. As an alternative a fixed login can be configured per recorder.
- FortiCentral does not require a plug-in to decode and display video from FortiCameras.
- To view video drag camera from device panel into pane.
- Fortinet recommends setting your monitor to a screen resolution of 1920x1080. This allows for sufficient desktop space so multiple videos can be viewed properly.

Note: Video analytics require a 64bit Windows version, so FortiCentral v6.0.x is available in 32bit and 64bit versions.

Each analytics module is available as a separate file which should be placed in the same folder as the main installer.

If the main installer detects analytics packages it will ask whether to install each of them.

Download Forticentral from <https://www.fortinet.com/support/product-downloads>

Available AI modules are:

- Facial Recognition
- Object detection
- Video Privacy
- Face mask detection (New!)

New Features

The following section highlights new features in the FortiCentral v6.0.1 release.

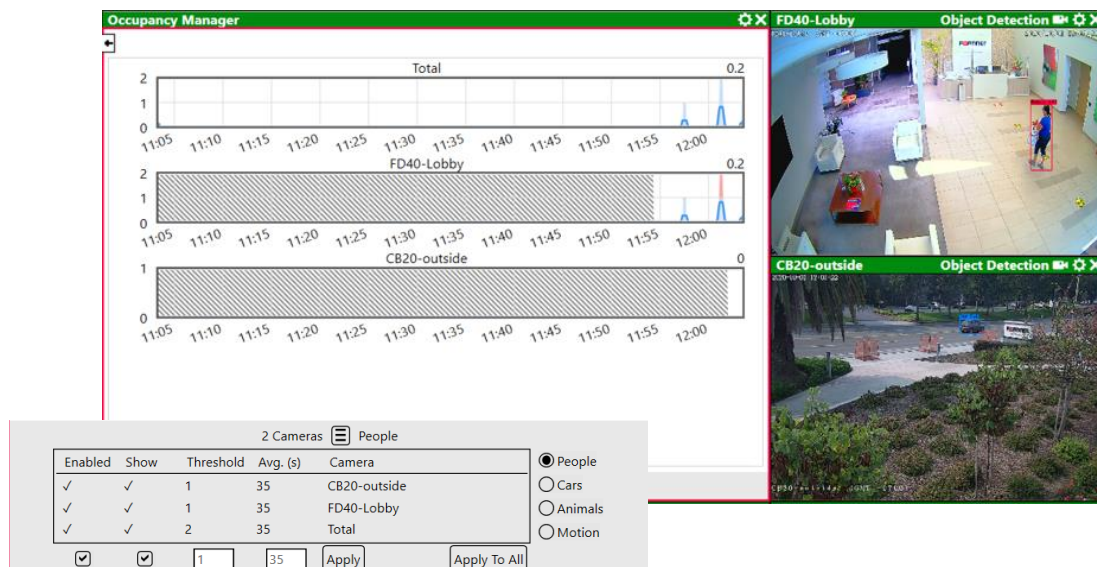
Occupancy Control

As a COVID-19 related solution the Occupancy Control feature allows to automatically control the flow of people into locations with limited capacity due to social distancing requirements.

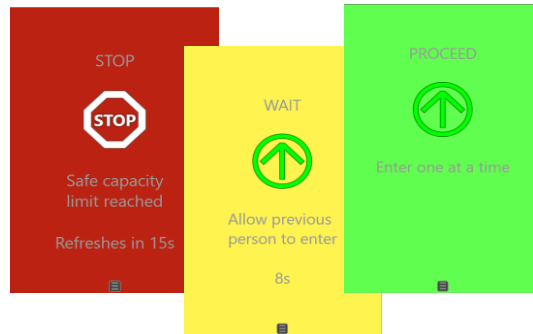
- » Stores
- » Reception areas
- » Cafeterias
- » Common rooms
- » Service counters

It is based on the object detection analytics module which does the basic people counting using deep learning algorithms.

The Occupancy Manager allows to configure multiple cameras that cover all or parts of the surveyed area. Each camera count is displayed in a historical line graph with red areas indicating occupancy exceeding a set threshold. A summarized chart with the total number of detected people allows consolidating counts for the whole site.

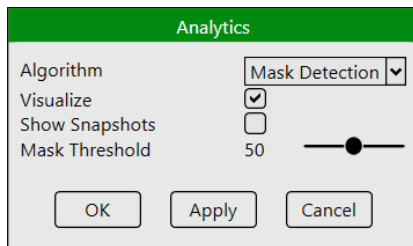


Working in combination with the Occupancy manager is the Concierge App. It will show a sequence of stop – wait – proceed signs depending of whether a threshold is exceeded in the Occupancy Manager. This app is running in distributed FortiCentral instances which can be placed in a tablet or monitor at the entrances to the store, thereby automatically controlling the flow of customers to keep occupancy to the desired limit.

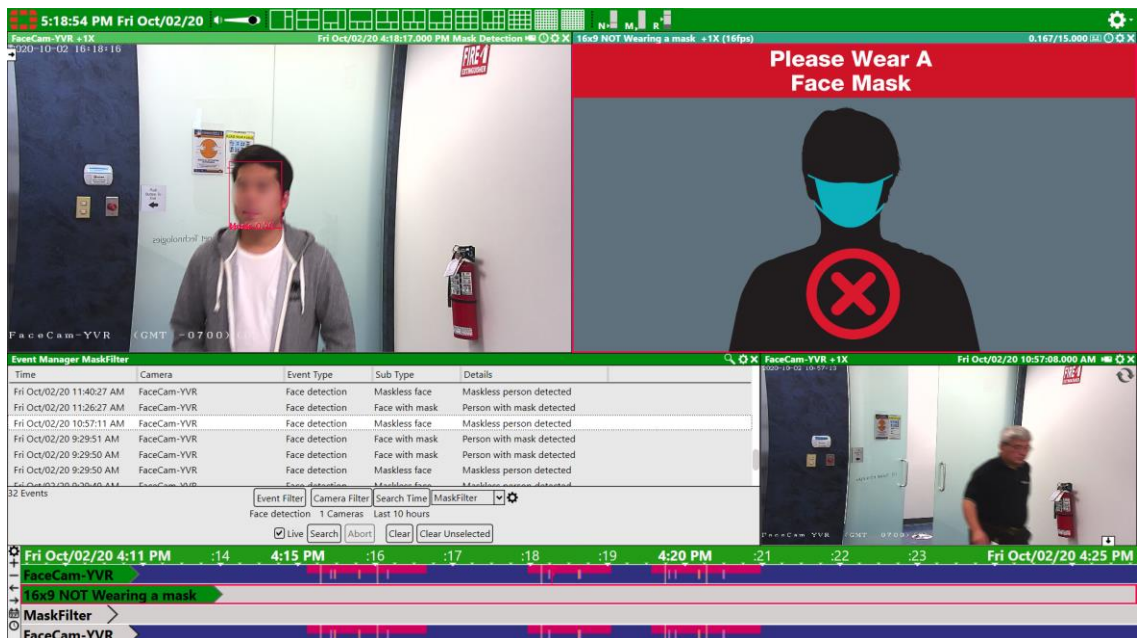


Mask detection AI

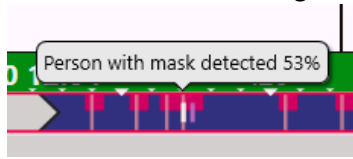
Mask detection analytics has been added as another tool to cope with COVID-19 compliance challenges. It is applied to one or many video streams shown in FortiCentral similar to object detection or face recognition analytics. When a person is detected it generates an event with either type 'Masked person' or 'Unmasked Person'.



The threshold determines how strict masks are enforced.



These events are transmitted and stored in the recorder. Timelines will show the events as markers with more information when hovering over them.



Like other analytics events the mask and unmask events can be coupled generating a clip and sending notifications via Email or SMS.

They are also part of the Event manager scope so that statistics and easy lookup and review of is supported.

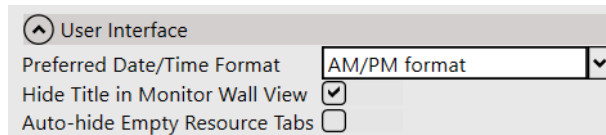
For live installations a FortiCentral screen can be placed next to an entrance with a camera and play back two different media messages depending on whether a passing person was wearing a mask or not. This automatic announcement is intended to help encourage the use of face masks. The messages are fully customizable and may include audio and video animation or simple images.

3D Maps

Feature	Added walls editor to 3d maps
Feature	Orthographic view for clean bird eye overviews
Feature	Hint boxes to help explain some 3d map feature
Feature	Camera view cones now get cut off by walls and floor
Feature	Added 3d map reports
Feature	Preview images of models for 3d maps, support drag and drop on maps
Fix	Crash in 3d maps when no map is assigned to a goto map button

Usability Improvements

Feature	Frameless look option for Monitor Wall mode. Title bars fade out unless pane is touched by mouse.
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- Feature Chat: messages, usernames and errors can now be copied and pasted
- Feature Improved object detection framerate when no motion detected.
Now no motion detection is the default – slightly faster.
- Fix Playback audio pitch sometimes off in media files.
- Fix Crash caused by connecting to a recorder a camera with 3DNR and saving

GUI enhancements

- Fix Video OSD controls displaying when loading view and only fade out when touching with mouse
- Fix Playback from alarm info messages would start live view instead of playback
- Fix Missing strings for alert and p2p upload started
- Fix Disabled buttons looking enabled in some themes
- Fix Changed layouts where not refreshing in secondary window

System/FRC Enhancements

- Feature Reduced PTZ latency on first move by approximately 200ms
- Fix Auto resolution switching on high DPI monitors correctly calculated
- Fix Wildcard user sometimes wrong names

FortiView improvements

- Fix FortiView config dialog did not refresh all values

Firmware Upgrade/Downgrade Information

Upgrading from earlier versions

Upgrading FortiCentral to v6.0.1 from v6.0.0, v1.9.0, v1.8.0, v1.7.1, v1.7 or v1.6 is fully supported.

Note: FortiCentral v1.5 and later does not support the GUI console feature in FortiRecorder versions 2.3.0 and older.

Note: Upgrading to v1.6 from v1.4x or earlier is not fully supported (upgrade to v1.5 first).

Fortinet always recommends backing up the configuration before performing an upgrade. The configuration file is located at

c:\ProgramData\Fortinet\FortiRecorderCentral\ and renamed upon upgrade to a new version e.g. FortiRecorderCentral.exe.SettingsV4.xml

The configuration can be exported from the Settings menu.

Downgrading to earlier versions

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

Note: Downgrading to an earlier version may revert to the configuration that was left when the upgrade occurred. So all changes to the configuration since then are lost.

Performance Guidelines

Video playback is very CPU intensive. If you are experiencing choppy video playback and cameras “freezing” during playback, you may have a client performance problem. Use the diagnostic tools available in FortiCentral to narrow down the problem.

In the toolbar area are performance meter symbols that show

- **Network bandwidth of incoming data and frame skip rate**
If a recorder cannot send out video streams fast enough it will start skipping frames. If this occurs the bar turns yellow and then red. It is an indication that the network bandwidth is too low to support the number of video streams that are currently displayed.
- **Memory usage**
Shows how much memory the application is using. The total amount of available memory is indicated as well in the tooltip.
- **Rendering performance**
Indicates how many MPixels are decoded per second. A 1MP image at 30fps requires 30MPixel/s for example. If more video is displayed in FortiCentral the performance limit of the PC will eventually be reached. At this point the video decoder has to drop frames to keep up with the incoming video stream. This drop rate is displayed at the tooltip and if it occurs the bar turns yellow and red in more severe situations. This indicates that the CPU/graphics performance of the PC where FortiCentral is running has reached its limit.

The performance bottleneck in a FortiCamera deployment will likely be the client, which must decode and render the video streams from the NVR. Displaying multiple video streams on the client is very CPU intensive.

Camera profiles

If you need to display 8 or more camera live views, you may need to configure the camera stream so that viewing is done at a lower frame rate or resolution, depending on how powerful the client PC is.

To optimize client performance, use the video and camera profiles to define and assign a video stream for each camera. To increase the number of live and playback 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 related video streams.

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

FortiCentral v1.3 and higher can use either of the live or recording streams configured in the recorder for display. Playback always accesses the recording stream.

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*.

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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.

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- Product Life Cycle
- CSS Reference Guide

