Vertiv™ Avocent® ADX MP1000 Management Platform
Release Notes

VERSION 3.9.9, MARCH 2022

Release Notes Section Outline

1. Update Instructions
2. Appliance Firmware Version Information
3. Features and Enhancements
4. Device Support Information
5. Language Support Information
6. Client Browser Support Information
7. Viewer Support and Version Information
8. Server Processor Support Information
9. TCP Port Usage
10. Known Issues and Limitations

1. Update Instructions

The Vertiv™ Avocent® ADX MP1000 Management Platform firmware may be updated through the web user interface (UI). To access the Vertiv™ Avocent® ADX MP1000 Management Platform web UI, enter your assigned IP address into a web browser (this IP address is provided upon initial set up of the management platform).

NOTE: For additional information on this process, see the Vertiv™ Avocent® ADX MP1000 Management Platform Quick Installation Guide that was provided with the platform.

IMPORTANT NOTE: Prior to updating the firmware, ensure your hardware will have full integration software support with this release. For more information, contact your Vertiv Technical Support representative.

To update the Vertiv™ Avocent® ADX MP1000 Management Platform firmware:

1. Visit www.vertiv.com/ADX-Management-Platform , select the *Documents & Downloads* tab, then select the Management Platform software downloads link.
2. Download the new firmware and save it to your local computer, FTP, HTTP or TFTP server.
3. In a web browser, enter **https://**<appliance.IP> using the IP address for eno1 that you configured from the Vertiv™ Avocent® ADX MP1000 Management Platform console menu.
4. Enter your username and password at the login screen; the Targets List screen opens.

5. In the sidebar, select *Administration-System Settings* and click the *Update Firmware* button.
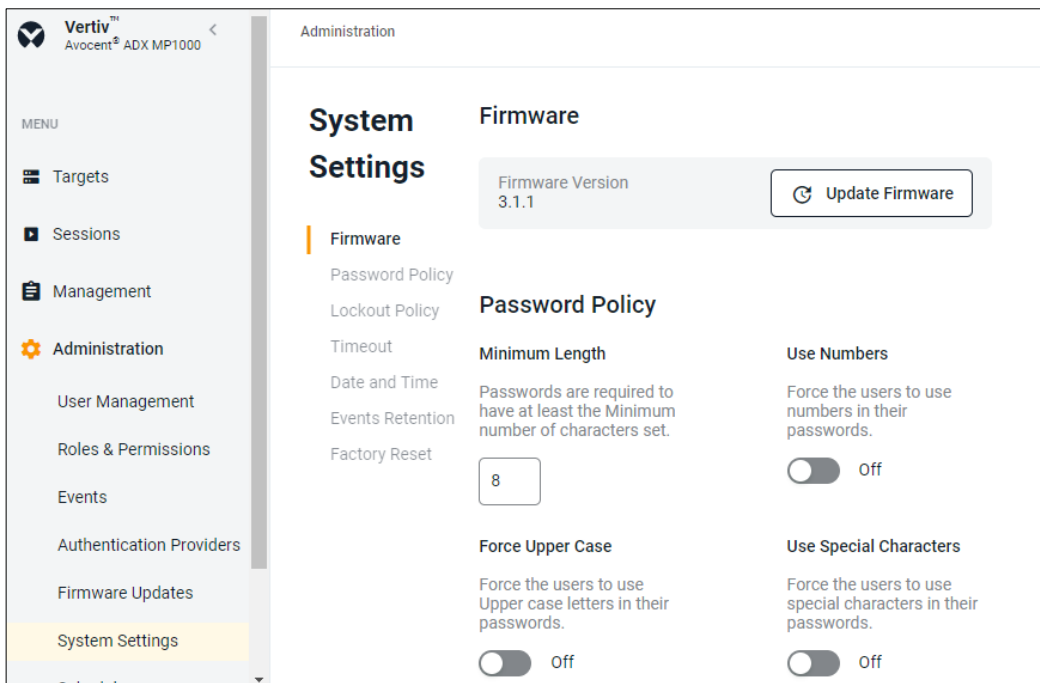
6. Select the firmware file and click *Update*.

2. Appliance Firmware Version Information

APPLIANCE/PRODUCT	VERSION	FILENAME
Vertiv™ Avocent® ADX MP1000 Management Platform	3.9.9	obsidian-image-3.9.9-update.img.xz

3. Features and Enhancements

The following features and enhancements are available with this release of the Vertiv™ Avocent® ADX MP1000 Management Platform.

New Features

- Added web UI support for discovery of Vertiv™ Avocent® ADX IPIQ IP KVM devices on the network. This capability allows users to perform the following operations:
  - Launch KVM sessions to targets connected to the device.
  - Manage device configuration settings.
  - Upgrade device firmware.
- Added web UI support to display registered Vertiv™ Avocent® ADX IPUHD 4K IP KVM devices on the network. This capability allows users to perform the following operations on the Vertiv™ Avocent® ADX IPUHD 4K IP KVM device:
  - Launch KVM sessions to targets connected to the device.
  - Upgrade device firmware.

- Added web UI support for discovery of Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console systems on the network. This capability allows users to perform the following operations within a Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console system:
  NOTE: The minimum firmware version required for Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console systems is version 2.20.
  - Launch serial or SSH sessions to targets connected to serial consoles within the advanced console system.
  - Manage serial console configuration settings.
  - Upgrade serial console firmware.
- Added web UI support for the following merge target device operations:
  - Merge multiple target devices into a single merged target device. These actions for multiple target devices (actions such as launching a KVM session or performing power operations) are aggregated and added to the single merged target device.
  - Unmerge target devices.
- Added web UI support for auto discovery of service processors (SPs) connected to a Vertiv™ Avocent® ADX RM1048P Rack Manager.

Enhancements

- Enhanced the KVM Viewer to monitor audio from a Vertiv™ Avocent® ADX IPUHD 4K IP KVM device.
- Added the ability to enable or disable FIPS 140-2 mode in the Vertiv™ Avocent® ADX RM1048P Rack Manager.
- Added the ability to diagnose connectivity issues with the Vertiv™ Avocent® ADX RM1048P Rack Manager.
- Renamed the following endpoints and actions throughout the API:
  - Endpoints: Renamed the sessionmgt endpoint to "sessions" and renamed the sessions endpoint to "localSessions"
  - Actions: Renamed the switchmode action to "changeMode" and renamed the terminateSession action to "terminate"

Resolved Issues

- General issues resolved:
  - Fixed enrollment issue occurring when adding a Vertiv™ Avocent® ADX RM1048P Rack Manager to the Vertiv™ Avocent® ADX MP1000 Management Platform fails. Previously, the rack manager was displayed in the Unmanaged Devices list but was still also listed as a target.
  - Fixed issue where the web UI timed out even when the inactivitivy timeout system setting was turned off.
  - Fixed issue where a selected target from the target list could not be deleted.
  - Fixed issue where the Save button stayed grayed out after renaming a target.
  - Fixed issue where the Vertiv™ Avocent® ADX IPIQ IP KVM device target name or Vertiv™ Avocent® ADX IPUHD 4K IP KVM device target name could not be changed in the Properties panel unless the serial number was also changed.
  - Fixed issue where the appliance firmware version was showing as blank after upgrading the Vertiv™ Avocent® ADX RM1048P Rack Manager.
  - Fixed issue in the API where the Vertiv™ Avocent® ADX RM1048P Rack Manager did not register and the "is_registered" parameters remained "false" after enrollment into the Vertiv™ Avocent® ADX MP1000 Management Platform.
- KVM Viewer issues resolved:
  - Fixed KVM Viewer issue where the second user showed in a pending state when sharing sessions for Vertiv™ Avocent® ADX IPIQ IP KVM device targets or Vertiv™ Avocent® ADX IPUHD 4K IP KVM device targets.
  - Fixed KVM Viewer issue occurring when creating an ISO file.
  - Fixed Vertiv™ Avocent® ADX IPIQ KVM Viewer mouse alignment issue occurring after video resolution update.
  - Fixed issue where the HTML5 KVM Viewer displayed an incorrect resolution due to a Windows 10 interaction for resolutions set as static 3840 x 2160; this is resolved by using the HTML5 KVM Viewer maximum resolution feature to change to the appropriate resolution.
- Service processor (SP) issues resolved:
  - Fixed issue where the SP Virtual Media connection sync was not functional.
  - Fixed issue where a previously executed power action on an SP was executed again after accessing the Details page.

4. Device Support Information

The following devices may be managed by the Vertiv™ Avocent® ADX MP1000 Management Platform:

- Vertiv™ Avocent® ADX RM1048P Rack Manager
- Vertiv™ Avocent® ADX IPUHD 4K IP KVM device
- Vertiv™ Avocent® ADX IPIQ IP KVM device
- Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console systems
- Vertiv™ Avocent® Universal Management Gateway appliance UMIQ-v2 module converted to operate as a Vertiv™ Avocent® ADX IPIQ IP KVM device
  NOTE: For this functionality, contact your Vertiv Technical Support representative.

5. Language Support Information

The Vertiv™ Avocent® ADX MP1000 Management Platform software currently supports English and Simplified Chinese.

6. Client Browser Support Information

NOTE: Unless noted otherwise, both 32-bit and 64-bit browsers are supported.

BROWSER	PREFERRED VERSION	SUPPORTED VERSIONS
Edge	99	79+
Firefox	97	35+
Chrome	99	40+
Safari	15	12+

7. Viewer Support and Version Information

The following table lists browser/viewer combinations successfully tested with a representative selection of client operating systems.

Tested Browser and Viewer Combinations (64-bit versions)

CLIENT SYSTEM	HTML5 KVM VIEWER SUPPORT?	KVM VIEWER VERSION	HTML5 SERIAL VIEWER SUPPORT?	SERIAL VIEWER VERSION
Chrome	YES	2.10.1	YES	2.3.1
Firefox (Windows Client)	YES	2.10.1	YES	2.3.1
Firefox (Linux Client)	YES	2.10.1	YES	2.3.1
Firefox (Mac OS Client)	YES	2.10.1	YES	2.3.1
Microsoft Edge	YES	2.10.1	YES	2.3.1
Safari	YES	2.10.1	YES	2.3.1

8. Server Processor Support Information

Tested Service Processors/Servers and Firmware

SERVICE PROCESSOR	FIRMWARE VERSION
Dell iDRAC7	2.65.65.65
Dell iDRAC8	2.75.75.75
Dell iDRAC9	3.30.30.30
HP iLO 4	iLO 4 v2.30
HP iLO 5	iLO 5 v1.40
XCC	CDI346L 3.60 2020-01-02
ACI	v4.1-2021-r07

9. TCP Port Usage

NOTE: TCP port usage is bidirectional unless otherwise noted.

PORT	TYPE	DESCRIPTION
443	TCP	General Communications (TCP)
22	TCP	General Communications (TCP)

10. Known Issues and Limitations

This release contains the following known issues and limitations:

- FTP is the only upgrade mechanism supported by the Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console systems.
- Virtual Media resources are not supported in the XCC SP.
- CIFS and NFS are not operational for iLO4 and iLO5.
- VM sessions are not cleared after exiting the viewer.
- The Virtual Machine Viewer Caps Lock (and other keys) are not highlighting when using Linux; this is not supported in VMWare.
- The changed time [from the Command Line Interface (CLI)] is not maintained through a reset. BIOS overrides time and must be set via BIOS.
- The Kingston USB in the front panel is not recognized and is causing the Boot Manager to not display.
- The default system roles (User-Role, User-Administrator-Role and System-Maintainer-Role) do not include access to SPs.
- Managed Vertiv™ Avocent® ADX RM1048P Rack Manager and Vertiv™ Avocent® ADX IPUHD 4K IP KVM device firmware updates via the new managed device drill-down page fail with an error message.
- The SP version is not displayed on the SP firmware update page.
- No access is given to archived Events.
- There is an issue with the iLO5 SP where it cannot control the graceful shutdown of the server.
- Clicking the SP name link (hyperlink) on the Target page produces error messages.
- Deleting an unmanaged Vertiv™ Avocent® ADX RM1048P Rack Manager in the Vertiv™ Avocent® ADX MP1000 Management Platform does not trigger the rack manager to go into Standalone mode; it must be done manually.

- Opening the KVM Viewer after rack manager re-enrollment may cause the KVM viewer to produce a 500 server message while authorization is being initialized.

- Session Timeout modifications do not take effect until a logout occurs; no message is forthcoming.

- With the option to add a resource group to a resource group, there are only options to add existing resource groups.

- Power Control is non-functional for unlicensed VMWare targets.

- Unable to change a full name in the User Preferences view.

- Mounting Virtual Media on iDRAC 7/8 SPs behaves inconsistently.

- Enabling Exclusive Mode for KVM sessions fails with an error message. For more information on resolving this issue, see the Vertiv™ Avocent® ADX Ecosystem Enabling Exclusive Mode for KVM Sessions Technical Note available at www.vertiv.com/ADX-Management-Platform under the Documents & Downloads tab.