
Avocent® Matrix High Performance KVM Switching System

Release Notes

Version 1.4.0

June 13, 2014

This document outlines:

1. Update Instructions
2. Local Client Requirements
3. Features and Enhancements
4. Known Issues
5. Compatibility Matrix

1. Update Instructions

Please refer to your installer/user guide for detailed instructions on updating the Avocent® Matrix High Performance KVM Switching System.

All devices (switches, transmitters and receivers) must be upgraded to the current version of firmware. While not required, it is recommended that transmitters and receivers be upgraded first.

Beginning with version 1.4.0, the firmware supports upgrading stand-alone transmitters and receivers. To upgrade a transmitter or receiver from version prior to 1.4.0, you will require a Matrix switch.

This version of firmware protects against the OpenSSL Heartbleed issue. As part of this change, the certificates used by the On-board Web Interface (OBWI) will be deleted.

2. Local Client Requirements

Software	Version
Internet Explorer®	9,10,11
Firefox	17 ESR

Terminal emulation software running 9600 bits per second, 8 bits, 1 stop bit, no parity and no flow control.

3. Features and Enhancements

New Features

- Added support for Extended mode.
- Allows firmware on transmitter and receiver to be upgraded from thumb drive.
- Allows transmitter and receiver to be configured via the On-Screen Display (OSD).
- Display video timing information on the OSD and OBWI.
- Allow the user to adjust video settings on the VGA transmitter.
- Display USB diagnostic information on the OSD and OBWI.
- Support for international keyboard layouts.

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- Add support for 2048x1152 @ 60 Hz timing.
 - Added user setting to block the user from changing passwords in the OSD.

Support Issues Addressed in this Release

- Added support for Extended Mode.
- Update to resolve the OpenSSL Heartbleed issue.
- Set the locale to English rather than allowing it to come from the browser. Fixes a problem that occurs when the browser language is not English.
- Display all switches in the OBWI even if the cascade contains more than four switches. The additional switches in the cascade show a status of "Exceeds Unmanaged Capacity".
- Repeating Keys in Shared Session.
- The OSD custom hotkey sequence for #42 should be **Backspace** instead of **Delete**.
- There are some BIOS or Bootcamp versions that will not work with USB.
- Share control time-out setting has no effect. The time-out is always 5 seconds.
- Improved latency for share control switching.
- After changing a receiver to auto login, clicking *Logout* on the OSD leaves the current user logged in.
- Hotkey target select configuration is inconsistent between the OSD and OBWI and can cause unexpected changes.
- Fixes issues reading EDID on some monitors.
- On a large cascade, several slaves fail to reboot after firmware upgrade.
- Forced connections fail and admin account becomes locked out.
- Enrolling a cascaded setup with more than four switches fails to enroll properly. Connected switches enroll, but additional switches are not detected until the master switch is re-booted.
- Fan speed range needs to be larger to prevent spurious fan faults.
- When a DC connected system of more than four switches is managed, only four switches show in the Avocent® Matrix Manager software.
- OSD Profile - Favorite TX list created from the Matrix Manager software doesn't send to receiver when user login.
- Attempting to reboot devices fails. Status indication drops and devices do not reboot.
- Forced disconnect: inform user that remote disconnect was issued.
- Fix issue with Devlin KMX-144 keyboard.
- Keyboard and mouse do not function correctly with some docking stations as targets.
- Targets disappear from the OSD target list when sorted by reverse rank.
- Correct enumeration issue where enumeration was aborted for non-HCD supported devices (devices other than HID, mass storage, or hubs). Symptom was that unmapped devices that are not HID, hub, or mass storage were not re-enumerated and strings were not populated. Unmapped devices are now marked for re-enumeration on connection to target and device strings are updated.
- USB locks up over time with certain "busy" configurations.
- Update files with special names not working with Matrix Manager software.
- Distorted video during reboot until login screen using the VGA Transmitter.
- Loss of USB keyboard upon reboot of receiver.
- The receiver now maps/unmaps the keyboard and mouse interfaces of a composite HID device in unison. Either both interfaces are mapped or neither is.
- OBWI will reboot switch if mode is "changed" from master to master.

- The default video resolution that the receiver will output in the absence of a valid EDID is changed from 1920 x 1080 @ 60Hz to 1024 x 768 @ 60Hz.
- Pull and Display any Transmitter EDID on the OBWI in the Peripherals tab.
- OBWI not reporting when power cable is disconnected.
- Issue with Logitech G5 mouse unable to move horizontally through Matrix Manager software if the scroll wheel is “clicked” to the side.
- Devices on a slave switch lose names when switched to a new master.
- Video is not always detected in the login screen for Windows 7 on a Dell Laptop for VGA.

4. Known Issues

Avocent does interoperability testing with various equipment (USB devices, monitors, and video cards). If you find a device that does not work properly, contact Avocent Technical Support.

- USB audio/video does not work.
- When in Share mode, Wacom tablets only work with the receiver that originates the session.
- Cascaded slave IP addresses are correct, but all other IP settings are incomplete or incorrect in the master OBWI.
- IPv6 cascading requires the slave IPv4 settings set to DHCP and there to be no V4 DHCP server available.

5. Compatibility Matrix

Switch	Receiver	Transmitter	Matrix Manager Software
1.2.2	1.2.2	1.2.2	N/A
1.2.3	1.2.2	1.2.2	1.0.15
1.2.4	1.2.3	1.2.2	1.0.31
1.2.6	1.2.3	1.2.2	1.0.31
1.4.0	1.4.0	1.4.0	1.0.36

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