

## Release Notes

Title: SMS Controller Firmware Release

Date: November 2022

Superseded Version: 7.14M / 7.57A

### OVERVIEW

Review the information contained herein for new features, enhancements and fixes included in the latest version of firmware for the VSRC-A, VRCNX-A, VSRC-M & VRCNX-M controllers designed to work with Vanderbilt SMS v7.2.0.

VSRC-A/VRCNX-A firmware v7.59A will work with SMS software versions prior to v7.2.0. However, Vanderbilt strongly recommends that SMS v7.2.0 or higher be installed when utilizing VSRC-A based controller firmware v7.59A for the VRCNX-A and VSRC-A controllers.

VSRC-M/VRCNX-M firmware v7.16M will work with SMS software versions prior to v7.2.0. However, Vanderbilt strongly recommends that SMS v7.2.0 or higher be installed when utilizing VSRC-M based controller firmware v7.16M for the VRCNX-M and VSRC-M controllers.

VSRC and VRCNX-R (legacy) controllers should be updated to firmware v6.70V.

SRCNX (legacy) controllers should be upgraded to firmware v6.58L.

While it is possible to utilize the SMS v7.2.0 software with lower firmware versions, not all new features will be available. Vanderbilt recommends that all controllers be updated to the latest firmware version available for each platform.

### ENHANCEMENTS

The following new features or enhancements are available:

#### VSCR-A & VRCNX-A

- Cybersecurity updates: OpenSSL, OpenSSH, LightTPD, SQLite, BusyBox and libxml2.
- Implement Linux Kernel patches to remediate CVE-2018-25020, CVE-2021-4083, CVE-2021-20322, CVE-2021-45486, CVE-2022-23308, CVE-2022-28796, CVE-2022-30065, CVE-2022-30594 & CVE-2022-36946.
- Update SQLite to remediate CVE-2022-35737.
- Implement RFC 6056 compliant Transport-Protocol Port Randomization.

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- Add support for RS2, Open Opens and Feenics OEM Codes for supported Mercury peripheral devices.
- Require use of DCT v2 for configuration changes and require authentication.  
*DCT v2 will be installed without removing any older version of the DCT which will still be required to manage controllers with older firmware.*

### **VSRC-M & VRCNX-M**

- Cybersecurity updates: OpenSSL, OpenSSH, LightTPD, SQLite, BusyBox and libxml2.
- Implement Linux Kernel patches to remediate CVE-2021-4083, CVE-2021-20322, CVE-CVE-2022-23308, 2022-28796, CVE-2022-30065, CVE-2022-36879& CVE-2022-36946.
- Update SQLite to remediate CVE-2022-35737.
- Add support for RS2, Open Opens and Feenics OEM Codes for supported Mercury peripheral devices.
- Require use of DCT v2 for configuration changes and require authentication.  
*DCT v2 will be installed without removing any older version of the DCT which will still be required to manage controllers with older firmware.*

### **FIXES**

The following issues have been resolved in this version:

#### **VSRC-A & VRCNX-A**

- CIM IP address not applied on first save in some circumstances.
- Optional controller heartbeat timer not working correctly.

#### **VSRC-M & VRCNX-M**

- CIM IP address not applied on first save in some circumstances.

### **VANDERBILT PRIVACY POLICY**

SMS does not transmit any data back to Vanderbilt. Any personal data collected within SMS is managed and used exclusively by the end-user of SMS entirely on customer owned equipment. Vanderbilt does not collect, manage or sell personal data. Please visit the Vanderbilt website at <https://usa.vanderbiltindustries.com/legal> for more information on our privacy policy.