

## Release Notes

Title: Vanderbilt Controller Firmware Release

Date: December 2021

Superseded Version: 6.70V / 7.11M / 7.54A

### 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 v7.1.0.

VSRC-A/VRCNX-A firmware v7.57A will work with SMS software versions prior to v7.1.0. However, Vanderbilt strongly recommends that SMS v7.1.0 or higher be installed when utilizing VSRC-A based controller firmware v7.57A for the VRCNX-A and VSRC-A controllers.

VSRC-M/VRCNX-M firmware v7.14M will work with SMS software versions prior to v7.1.0. However, Vanderbilt strongly recommends that SMS v7.1.0 or higher be installed when utilizing VSRC-M based controller firmware v7.14M 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 v7.1.0 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:

#### VSRC-A & VRCNX-A

- Cybersecurity updates: OpenSSL, OpenSSH, LightTPD, SQLite, BusyBox and libxml2.
- Block HTTP Request-Method "OPTIONS".
- Implement Linux Kernel patches to remediate CVE-2021-33909, CVE-2021-38209, CVE-2021-40490.
- 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.
- Block HTTP Request-Method "OPTIONS".

- Implement Linux Kernel patches to remediate CVE-2021-38199, CVE-2021-38209, CVE-2021-40490.
- Uninstall display.cgi.
- 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**

- Deleting the 2<sup>nd</sup> VRI-2 reader using supervised contacts can cause a controller restart.

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

- Deleting the 2<sup>nd</sup> VRI-2 reader using supervised contacts can cause a controller restart.

## **VANDERBILT PRIVACY POLICY**

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