RELEASE NOTES

3-Series Firmware

1.603.0113 – October 8, 2020

Product or Content Description

Package Update File for the Pro3

Package contents:
Cntrl Eng v1.603.4298.28152
Cab: 1.603.0113
Applications: 1.0.7586.24749
Updater: 1.0.33
Bootloader: 1.30.00
RouterBootVersion: 4
FrontPanelVersion: 1.0.7
IOPVersion: v1.3177.00007
RouterVersion: 1.004.0017
BACnetVersion: 15.1.16
PRO3-SetupProgram: 1.003.0024

System Requirements and Dependencies

Software Requirements:

!! Device Database 91.00 or greater

Operational Installation/Upgrade Instructions

When upgrading from 1.007.0019 or later, the recommended upgrade steps are:

- Use FTP client such as FileZilla to upload the file to \FIRMWARE, or using Toolbox FileManager, upload the file to \ROMDISK\USER\SYSTEM
- Using Text Console, use the command: PUF <Filename>

Note regarding credentials when upgrading to PUF 1.601.0050
Upgrading from PUF up to and including 1.504.0040 to PUF 1.601.0050

- No action required, no SSH or Webserver credentials exist

Upgrading from PUF 1.600.0092 or 1.601.0016 to PUF 1.601.0050

- If Authentication not enabled
    - No action required, no SSH or Webserver credentials exist

- If Authentication is enabled
    - If Webserver ON (prior to upgrade)
        - No issues, SSH and Webserver credentials both work as expected
    - If Webserver OFF (prior to upgrade)
        - Webserver accounts will be deleted
        - New account for Web Server will Need to be created

There are two methods for creating a webserver account when Authentication is enabled, and Webserver is disabled. Choose whichever one is more convenient

1. Disable Authentication, then enable Authentication, user will be prompted to create a new user and it will apply to SSH and Webserver
2. Change the password on the SSH. This will result in user being created for the Webserver. SSH and Webserver will have same credentials

Version History

Version 1.603.0113 October 8, 2020

Changes since Last Version

New

- Added ability to enable IP and User blocking when user attempts to log in with invalid credentials multiple times.
- Added command CRESTRONONETPR which reports time remaining on Crestron ONE trial period.

Fixed

- Resolved issue with Websocket class implementation, where internal buffer could overflow. This caused interoperability issues with Sonos firmware upgrade.
- Resolved issue where serial joins on SNMP symbol would show part of previous values
- Resolved issue where control system can end up in a reboot cycle when starting a large program
- Resolved issue where password rules were not enforced correctly
- Resolved compatibility issue with Josh.ai modules

Version 1.603.0076 August 13, 2020

Changes since Last Version

New Features

- System will require authentication upon a restore
- Added support for Mobile Room Control via Crestron ONE™ app. Crestron ONE app allows you to connect and control a Crestron programmed smart room from a personal mobile device.
    - Supported System Requirements
        - 60-Series Firmware (minimum version tsw-xx60_3.000.0014.001)
            - Models: versions that include Bluetooth, excludes the models with “-NC” in the product name as these do not include Bluetooth
        - 3-Series Control Processors (minimum version 1.603.0076)

        - Models: AV3, CP3, CP3N, DIN-AP3, FT600, MPC3 Family, PRO3, RMC3, TSCW
    - After the free 60-day trial period expires on control processor, a Mobility License is required and applied to the control processor to enable Mobile Room Control functionality.
        - **Trial period is included within firmware, no trial license is required.** To activate the 60-day trial period, follow the instructions within the "Programming Guide: Crestron ONE™ App" under the Resources section of the Crestron ONE Product Page

Updates

- Added Autoupdate puf support for DIN-CENCN-2,DIN-CENCN-2-POE and CAEN-BLOCK-CENCN-2-POE
- Added support for a password protected private key
- Added ability to define subject alternative name(s) in certificate requests
- Improved security for Autodiscovery
- Improved EISC communications for large updates

Bugs

- Fix issue with inability to upload file via CWS
- Update behavior of "ssl ca" command when processing "rootCA_cert.cer" file to allow for multiple certificates, including intermediates in the file
- Fix issue with MPC3-102 where a button pressed remains latched high if button held and then disabled.
- Fix issue where BACnetRemoteCOVList may not display device online status, IP and subscription information correctly

Version 1.601.0050 October 11, 2019

Updates

Minor updates made to BACNet stack to ensure BTL compliance

Version 1.601.0048 October 10, 2019

Changes since Last Version

Bugs

- Fix issue where S# using SQLite class resulted in error in initializing system
- Fix issue where project not getting removed from device when project name contains .(dot)
- Fix issue where ARPing on Default Gateway could result in gateway IP in ARP being truncated (router-based systems only)
- Fix issue where upgrading from puf prior to 1.600.xxx to puf 1.600.0092 or 1.601.0016 with Authentication enabled results in credentials not working
- Fix issue where SIMPL Console Symbol interferes with SIMPL debugger

Version 1.601.0016 July 25, 2019

New features

- Added support for Apple HomeKit

Updates

- SSP Secure sockets security enhancements

Bugs

- Fix issue with SSP Authentication class method AddGroupToSystem not properly setting access level
- Fix issue with attempting to import private key failing

Known Issues

- SSLVERIFY is OFF in CA mode, it should be enabled

Version 1.600.0092 May 10, 2019

New features

- Upgraded cryptography libraries, used for TLS and SSH

Updates

- General security enhancements
- General and stability enhancements for XiO Cloud
- General and stability enhancement for SNMP
- Enhancement for Certificate utilities
- Enhancements for AuditLog
- Enhancements for AutoUpdate
- Stability enhancements for RemoteSyslog
- Stability enhancements for Secure Sockets
- Stability enhancements for FITC connections
- Stability enhancements for Crestron Web Sockets
- Stability enhancements for BACNet
- Stability enhancements for 802.1x
- Remove unnecessary messages from logs

Bugs

- Fix issue where closing instance of UDP socket in S+ code results in other instance not able to receive data
- Fix for MPC3-10x wakeup issue

Known Issues

- SSLVERIFY is OFF in CA mode, it should be enabled

Version 1.504.0040.0004 February 14, 2019

New features

- Added support for loading programs via XiO Cloud

Updates

- XiO Cloud enhancements
- Update webserver to use TLS1.2
- Improve Secure Socket robustness

Bugs

- Fix issues with LEDs in MPC3

Version 1.503.0070.0001 November 16, 2018

New features

- CTP and Telnet are disabled by default
- Add a default SSH Banner which prints a warning recommending securing the device

Updates

- Updated support for XiO Cloud
- Updated support for Dynamic BACNet
- Updated support for BACNet stack
- Updated support for Auto Update
- Updated support for SNMP walks
- Stability update for Secure Client connections
- Stability update for Web Sockets
- Stability update for TimerEngine

Version 1.503.0026 June 1, 2018

New features

- Updated IR support file with latest set of standard commands for Crestron Studio
- Support for new EISC's for communicating with Virtual Control

Bug fixes

- Resolved issue with data not being sent to extenders of GWEXER on update request
- Resolved issue with XiO Cloud connectivity

Version 1.503.0016 February 28, 2018

New features

- Add support for XiO Cloud

Bug fixes

- Resolved router port forwarding issues at system boot
- Resolved BACNet COV issue

Version 1.502.0039 August 15, 2017

Bug Fixes

- Resolve issues with exceptions when a 3 series is slaved to another 3 series controller
- Updated the range of valid ports allowed for BACnet

Known issues

- When a system is configured with one of the time zones listed below, performing this firmware upgrade will set the time zone back to the default time zone of Pacific Standard Time

```
Time Zone: 120  UTC-11
Time Zone: 121  Venezuela Standard Time
Time Zone: 122  Russia TZ 9 Standard Time
Time Zone: 123  W. Australia Standard Time
Time Zone: 124  W. Central Africa Standard Time
Time Zone: 125  W. Europe Standard Time
Time Zone: 126  W. Mongolia Standard Time
Time Zone: 127  West Asia Standard Time
Time Zone: 128  West Bank Gaza Standard Time
Time Zone: 129  West Pacific Standard Time
Time Zone: 130  Russia TZ 8 Standard Time
```

  The time zone should be set back to its correct configuration after upgrading the firmware

- When Telnet and standard Web services are disabled and a firmware upgrade is performed the services will be re-enabled. After upgrading it will be necessary to disable them

Version 1.502.0029 June 7, 2017

Updates

- Resolve issues with the rf subsystem being out of sync causing a loss in functionality unless the unit was rebooted.
- Resolve issues with the AutoUpdate engine.
- Resolve issues with the Bacnet Stack for Invoke Id optimizations
- Resolve issues with the printing of the username in the whoami command

Version 1.502.0026 May 17, 2017

Updates

- Initial release for the ZUM-FLOOR-HUB

Version 1.502.0020 April 6, 2017

Updates

- Add support for the IGMPProxy command.
- Resolve issues with Websockets connectivity.

Version 1.501.0106 January 31, 2017

Updates

- Reduced extraneous messages in log.

Version 1.501.0008 December 15, 2016

Updates

- Initial release for the DMPS3-4K-200-C / DMPS3-4K-300-C.

Version 1.501.0105 November 7, 2016

Updates

- Reduced extraneous messages in log for websocket connections.

Version 1.501.0104 October 26, 2016

Updates

- Improve network resilience for websocket connections
- Resolve issue with BACnet where network outage could cause devices to go offline

Version 1.501.0041 October 14, 2016

Updates

- Resolved AV Framework and Fusion interoperability issues

Version 1.501.0103 October 4, 2016

Updates

- SIMPL Debugger fix
- Resolved issue where gratuitous ARPs would cause devices to lose IP address assignments.
- Added support for SHA256 Certificates.
- Added support for Crestron Web Scripting, allowing SIMPL# to to tie into the built-in webserver.
- Optional parameters added to the CreateCSR command.
- Auto Update changes needed for the new tool.
- Resolved issues with TSW Panels not connecting over SSL.
- Resolved issues with 802.1X where we incorrectly advertised support for PEAPv1.
- BACnet fixes:
    - Foreign Device registration is now saved across reboots.
    - Added new console command to disable a Read following a write.
    - Memory leak fixes when NumberOfStates join was not being used for the Multi state.
    - Initiate Foreign device registration before sending out a WHO-IS or I-AM.
    - Resolve memory corruption issues.
    - Handle broadcast unconfirmed COV notifications.

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