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Release Notes

SystemX v1.8.2.1 Release Notes

CRN-0055.b

July 31, 2023

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Overview

This document outlines the updates made to the SystemX software platform for release 1.8.2 and provides upgrade instructions.

New Features

NF1: Added support for data collected from MIL-1553 data buses to the data collection system and the Avionics IDS.

NF2: Added support for reading avionics data from generic UDP packets.

NF3: Added a priority call list mode to handset groups, where the handsets are dialed in order if one handset doesn't answer in a certain amount of time.

NF4: Added a GUI ribbon history table, so that a user can view the content of message ribbons after they have been closed.

NF5: Added a GUI watchdog feature, so that a user will be informed if they have lost connectivity to the GUI, and/or if the system they are connected to has been rebooted.

NF6: A discretes tracker was added to the database service, so that a discrete can be activated based on the data in the latest rows of a data table. This feature can be used to activate an external indicator when an alert is generated.

NF7: Added local system state information to the data pushed to an external AHMS system.

NF8: Added support for filters to network bridge ports. They can be used to block or allow traffic based on ip properties on specific ports.

Improvements

IMP1: Options were added to limit the amount of data searched when performing a table search, based on timestamps and/or limit search to recent table partitions which improves the search experience when working with very large tables.

IMP2: ARINC-429 label update tools in GUI hide options for data types that aren't currently used in the label.

IMP3: Multiple database write and search performance improvements.

IMP4: Updated dashboard sparklines, improving performance and GUI clarity.

IMP5: Improved visibility for GUI dark mode to make statistic graphs easier to read.

IMP6: LXC decryption passwords have been hidden from configuration summary files.

IMP7: Added a new maintenance user type, which provides permissions required to load predefined overlay and template files on a system.

IMP8: Added a new remote user type, which provides permissions on a server required to access remotely connected routers and appliances.

IMP9: Added a "link up" status in the SBB radio monitor page to show link status in addition to the current "Active" status to have more visibility of the status of the whole system.

IMP10: Added SNMP Read Timeout indicator in GUI to have more visibility of system connectivity.

IMP11: Menu items will now dynamically update as objects are added and removed from the system.

IMP12: Added configurable registration periods to the Certus SIP Trunk.

Bug Fixes

BUG1: Resolved an issue with exporting builtin Avionics IDS algorithms where user modules were being exported which were set to read only. This was fixed so that builtin read only user modules were not exporting.

BUG2: Resolved an issue on the DataPHYs where if discretes were toggled at the exact same time the discrete state would lock-up and the unit would require a reboot to recover.

BUG3: Fixed an issue with the Falcon IDS Debug Mode, where error messages would appear in the logs when running on debug mode.

BUG4: Fixed an issue with incoming calls on Certus SIP trunks that were not completing due to the INVITE message format changes on the Certus terminal.

BUG5: Fixed issue where the PBX Handset Auto-attendant was not updated based on the availability of Handsets for incoming calls.

BUG6: Resolved an issue where a few specific WiFi channels in 5GHz mode on some router platforms would fail to come up on bootup.

BUG7: For release 1.8.2.1: resolved bug in release 1.8.2 where the value in integer pull-downs in the GUI (ie,. PBX Handset Extensions) may not accurately reflect the system state.

Upgrade File Info

Name	SHA256 Checksum
systemx-dataphy_ng_rootfs-1.8.2.1-JUL31-14.46.14-2023.upgrade	9a5d85b39daaeaea75c792575152f21fdbae7ffd8194e96f9fe89e65fb334526
systemx-erouter_rootfs-1.8.2.1-JUL31-14.41.28-2023.upgrade	5ffecc86593d50b98c25bb6b21c474ec785ce42bdcb7aec49a8d650ae372e2a2
systemx-router_rootfs-1.8.2.1-JUL31-14.59.59-2023.upgrade	1d14e4508fb45837a7b3a95a3dc7d86d256da2746aae54ec27a22303ebceaacf
systemx-vm_appliance-1.8.2.1-JUL31-15.21.22-2023.upgrade	7123c80f9214fac274225b500cb922cb623d636d32a5e4630b2edd3520cebe17
systemx-vm_server-1.8.2.1-JUL31-15.10.26-2023.upgrade	df11bc5a54ad7b3cb90c2fac36950a0cdf38ffe812f7eb137cac64e2abd163d8

Upgrade Process

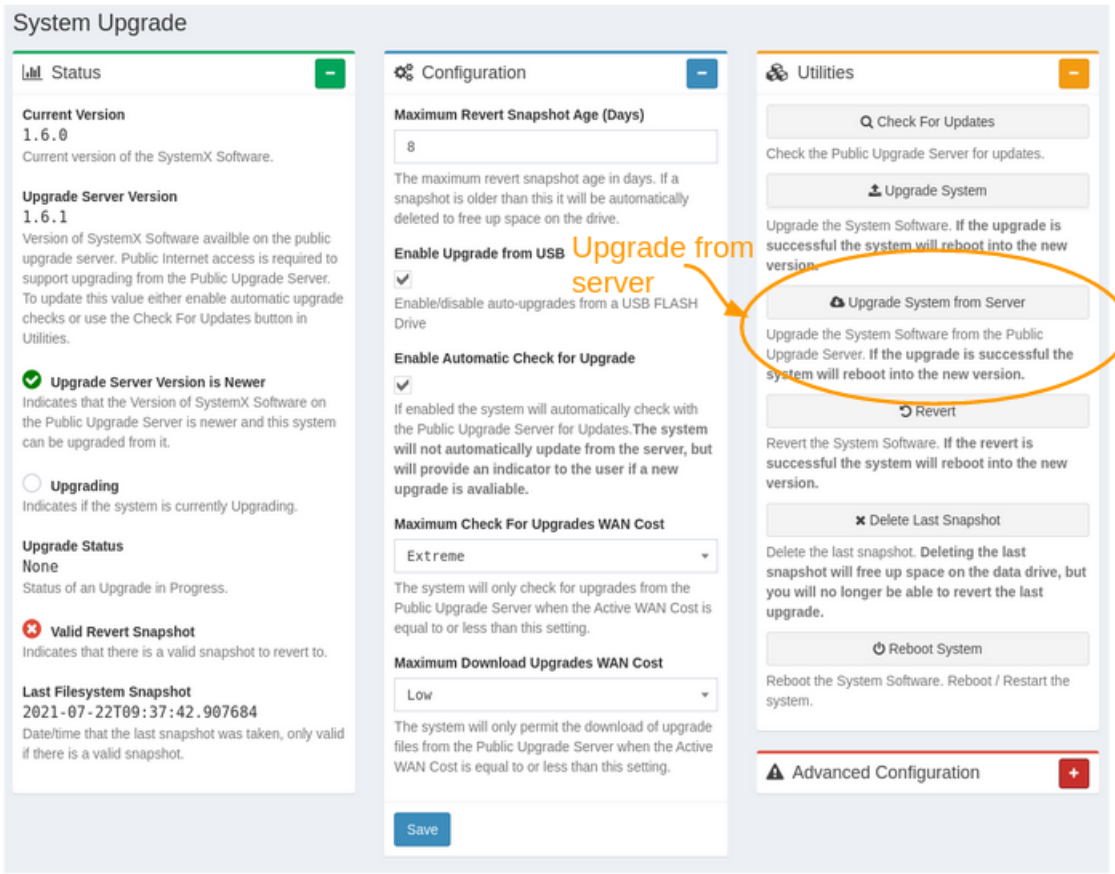
The system software can be upgraded from a file loaded directly from the CCX Technologies upgrade server or uploaded from a device connected to the SystemX Admin GUI.

Upgrading from CCX Technologies Upgrade Server

Internet access is required on the system for this upgrade method.

To upgrade the system software from an upgrade server:

1. Open the SystemX GUI and navigate to System -> System Upgrade
2. From Utilities, click on "Upgrade System from Server"



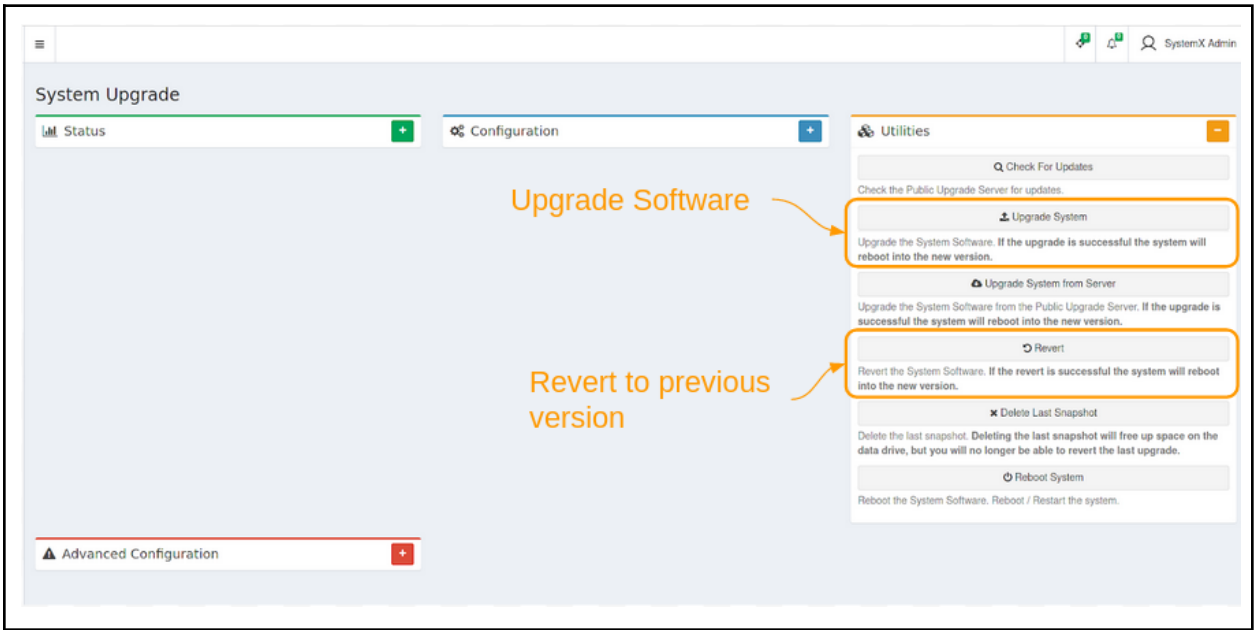
Upgrade System from Server

Upgrading with an Upgrade File

The system software can be upgraded from the System Upgrade page using an encrypted upgrade file provided by CCX Technologies, the latest upgrade file is available at ccx.support. System Administration information can be found in the Administrator's Guide (contact support@ccxtechnologies.com for a copy).
Steps to upgrade the system software from the GUI are outlined below.

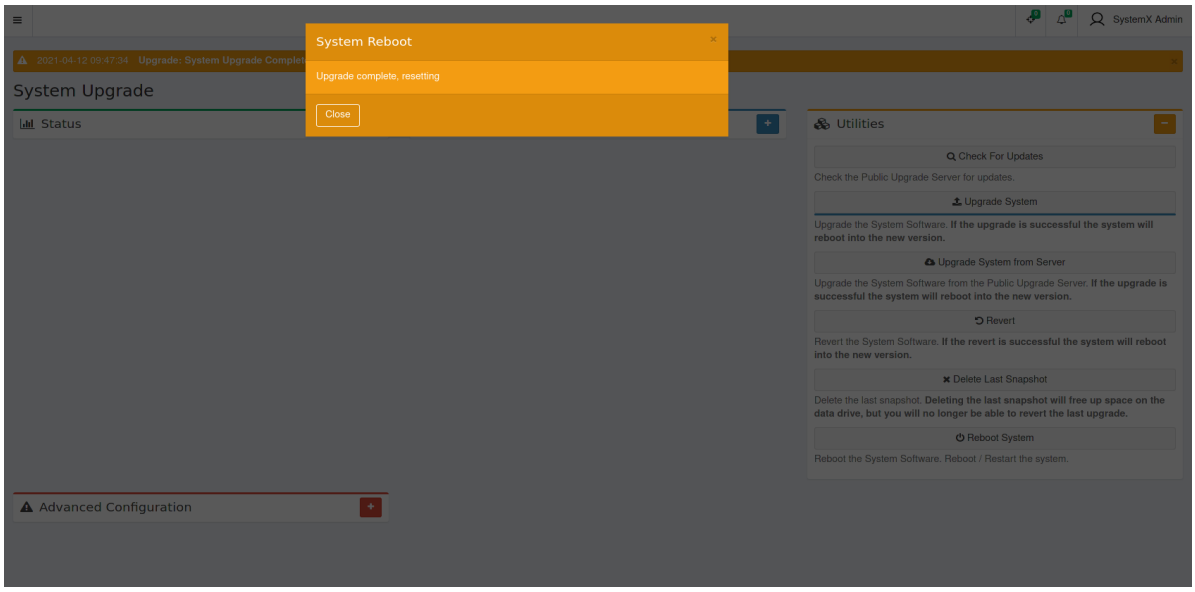
1. Navigate to System -> System Upgrade
2. Under utilities click "*Upgrade System*"

The system software and configuration can be reverted to a state immediately prior to the last upgrade by using the Revert button on the System Upgrade page.



Upgrade system using encrypted upgrade file

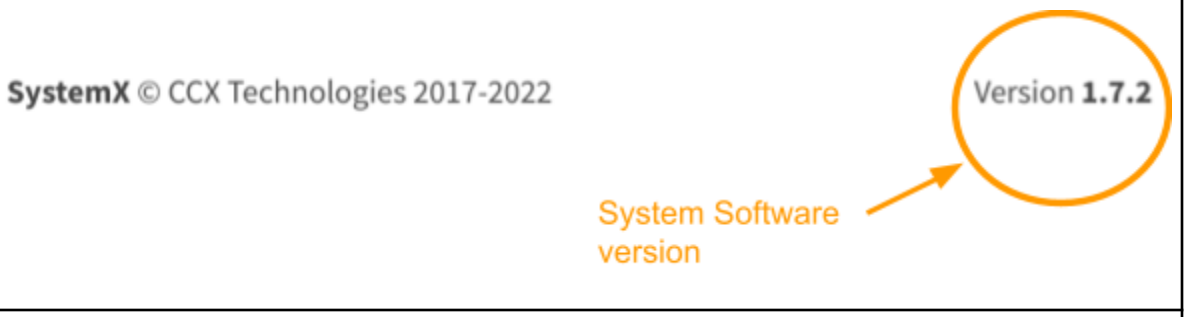
After the file is uploaded the upgrade process will start, and the system will automatically reboot.



System Upgrade - Reboot Notice

System Upgrade - Rebooting

After rebooting the system will come up with the login page, after logging the running software version is available in the bottom right-hand corner of the page (in the footer).



Footer - Software Version