Software Version 1.2.2: Release Notes

Orolia released a software update for SecureSync 2400. Customers can download this software update at no charge from the Orolia website. This software update will upgrade the unit's system software to **Version 1.2.2**.

This update provides added benefits through new features, enhancements to existing functionality, as well as software fixes and security updates, as described in this document.

For your convenience, older legacy releases are also described in this document.

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Version 1.2.2

Enhancements and fixes

The following defects were corrected:

- Fixed a one second offset found in PTP synchronization between the master and slave.
- Corrected an issue with PTP slaves incorrectly reporting as in-sync despite no longer receiving messages from the master.
- Corrected an issue with PTP slaves incorrectly reporting as in-sync despite the designated master no longer being in sync.

Known Issues

- In version 1.2.2, the 2400 cannot be configured to operate as both a PTP slave and NTP client.
- When switching PTP configuration between master and slave, occasionally the change will not take effect unless manually disabling/reenabling PTP on that interface.

Version 1.2.1

Enhancements and fixes

The following defects were corrected:

- Fixed an issue with a memory leak when specific pages were viewed on the front panel. This includes pages viewed that timed out while open. This leak can be found in all previous software versions and is automatically cleared upon a reboot, including when updating to software version 1.2.1.

Known Issues

- The following option cards are currently limited in use to only slots 1 & 2: 1204-2F, 1204-13, 1204-23, 1204-49, 1204-4A, and 1204-30.
- On units that have manually-set time as a PTP Master and then are switched to using a valid reference, the Slave time does not correctly switch to the reference but will instead stay on manual time. If switching between manually-set time and an external reference, the PTP master must be restarted for the slaves to properly follow the new time source.
- When restoring configurations, the GNSS Constellations configuration is on rare occasions not loading correctly.

Version 1.2.0

Newly released features

- Updated front panel appearance and functionality to add visual indications of reboot, upgrade, and halt states, am/pm indicator light, front panel keypad lock, fan state, and to allow users to configure the time zone of seven segment display.
- Added support for the Hotswap Power Supply feature in the Web UI and on the front panel.
- VLAN is now supported.
- Implemented support for IPv6, including PTP, front panel, and Web UI support
- Enabled support of the SAASM GPS system via option card 1204-50.
- Added support for NTP over Anycast.
- Added GPSD support on units with commercial receivers

Enhancements and fixes

The following improvements were added:

- Added static routes by interface into the Web UI
- Added an option to broadcast PTP timestamps in UTC rather than TAI with an added offset.
- Added enhanced support when the unit is configured as an NTP client to allow close discipling of the oscillator.
- Enabled TACACS+ usernames and passwords to allow the "_" character
- Improved KTS host disciplining
- Upgraded the Linux kernel to version 4.19.120.
- Improved SFP functionality and reliability
- Removed faulty downgrade paths to earlier, non-standard versions. It will not be possible to downgrade past 1.2.0 from this point forward.
- Changed SNMP monitoring output messages in order to match the SecureSync 1200 functionality to accommodate customers with both systems.
- Allowed users to select SNMP port

The following defects were corrected:

- Fixed an issue wherein the NTP and PTP references were incorrectly handled through the Reference Monitoring chart in the Web UI.
- Corrected 1PPS and 10 MHz alignment
- Fixed a problem with errors on IRIG Outputs.
- Repaired routing to allow destination-based addressing
- Repaired an issue with the GNSS config file sometimes not saving correctly

- Fixed an error with phase validation reference monitoring.
- Resolved a problem occurring when manually set time was removed but the system did not resync to correct references.
- Fixed an issue with the command `clearlogs` causing a break in the NTP stats recording process
- Corrected a defect with log rotation functionality that caused potential storage problems.
- The `net4` command now no longer returns Interface not Activated
- Repaired MTU settings changes in the Web UI
- Fixed a problem in which the listed event times in the Web UI were incorrectly displayed.

Security *enhancements and fixes*

- Addressed CSRF vulnerabilities related to POST/GET Restful functions
- Removed FTP support to allow for greater security (via SFTP)

Option Card *enhancements and fixes*

- Added support for option cards 1204-0A, -0F, -03, -09, -1F, -14, -40, -41, -42, -49, -50.
- Upgraded firmware version on the following option card:

  1204-4A and 1204-49 cards to version 1.1.0.

  Released version 1.31 for option card 1204-32

  1204-10 upgraded to 1.03

  1204-14 upgraded to1.02

  1204-15 upgraded to 1.12

  1204-1B upgraded to 1.04

  1204-1E upgraded to 1.03

  1204-22 upgraded to 1.03

  1204-28 upgraded to 1.02

  1204-34 upgraded to 1.01
- Added a field in the Web UI to allow the addition of an offset value to the output of the 1204-02 card

The following defects were corrected:

- Corrected a known issue in which the 1204-4A card configuration was not properly transferred through the config bundle.

Known Issues

- Units with more than four 1204-15 IRIG OUT cards installed at once may experience failures and difficulty with programming the outputs.
- STANAG 4430 HVK EXTENDED EDITION 1 is not currently functional.

- An issue exists with DHCPv6 not setting up valid subnet routes.

Version 1.1.0a

Enhancements and fixes

The following improvements were added:

- Added support for the Interference Detection & Mitigation Suite
- Added support for the 4A option card.
- Enabled PTP on both Ethernet ports.
- Created High Security HTTPS option
- Added LED blinking support for the front panel menu buttons to provide status indicators
- Implemented TACACS+, RADIUS, and LDAP security functionality.
- Inserted the latest version of the pdf User Manual directly to the Web UI.
- Improved clarity over GNSS selection combinations.
- Increased the size of the reference table beyond 16 entries.
- Added the `clearcfg` command to clear configurations but retain log information.

The following defects were corrected:

- Fixed an issue wherein the NTP status page did not display client throughput.
- Repaired a problem with ASCII Input Time validity in the GGA format.
- Corrected front panel problems: a difficulty displaying leap seconds, a problem halting and clearing configurations, an issue with disabling output through the front panel, a problem with the display of the IP address, and added a front panel test menu.
- Fixed a few minor Web UI errors involving display of option cards
- Repaired a few CLI command issues with the `clean` command, between IPv4 and IPv6 commands, `portset`/ `portget`, and `gw4set`/ `gw6set`. Confirmed consistency of CLI commands and underlying network configuration functions.

Security enhancements and fixes

- Added Web UI security features to prevent login simultaneously from multiple locations and mitigate brute force password attacks.

Version 1.0.2

Enhancements and fixes

The following defects were corrected:

- Fixed an issue with Rubidium units skipping the warmup fix.

Security enhancements and fixes

- No major vulnerabilities are currently known or repaired in this release.

Which SW version is installed on my SecureSync?

To determine the software version currently installed on your unit:

1. Login to the unit's Web UI
2. Navigate to **Tools** > **Upgrade/Backup**. The **System Configuration** panel in center of the screen displays the current version number under System:
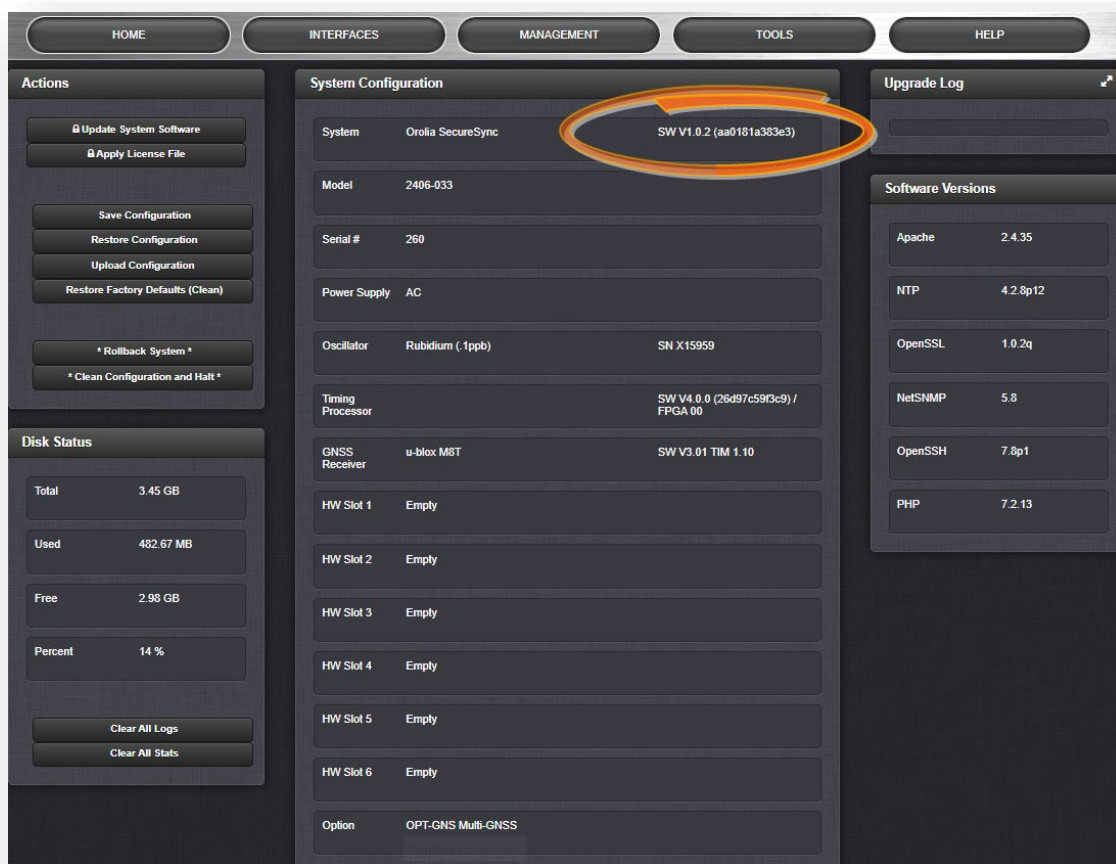

Figure 1: Software revision reported under **Tools > Upgrade/Backup**.

How to download and install the new SW

Installing the Software Update

To upgrade the software installed on your unit, download the latest version.

Log on to the Web UI and navigate to **Tools** > **Upgrade/Backup** and click on **Update System Software** in the Actions panel.

Click the **Choose File** button and select the upgrade file location; click Upload.

Click the Perform Upgrade checkbox. If desired, select the Clean Upgrade checkbox as well.

Click on the **Submit** button. The upgrade will begin immediately. The unit will reboot during this process; it will be necessary to begin a new Web UI session.

> *For more information on this process or any other feature or function of the SecureSync 2400, refer to the main user manual.*

How to contact Technical Support

Should you have any questions or comments regarding any of the above-mentioned features or fixes, please visit the Spectracom "Support" page of the Orolia website (where you can submit a support request and find additional technical information).

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