

OCML (GEN 1) MODULE FIRMWARE RELEASE NOTES 1.3

Release: 1.3**Issued:** December 12, 2023**Bug Fixes:**

- Reply NACK if requesting operation unknown.
 - Previous code did not respond with NACK if an unrecognized message was received. This delays the controller module as it must wait 300ms for a timeout to expire. This change improves the efficiency of the system.
- If the checksum of an incoming message is not correct, stop processing this message and answer with NACK.
 - This fix prevents a situation when a broken message can be accepted for processing that can lead to unpredictable states.

Added New Features:

- Fully implemented software-driven Warm Reboot raised by a CommBreak sequence.
 - Allows rebooting the module when the “Break” sequence is received from the COMM module via web GUI (MUST have controller module firmware 3.4 or later to support this). This command is sent to both optical module slots, even if the COMM module shows that the optics module has been removed.
- Added serial bus checking and synchronization functionality.
 - If there is nothing on Rx, start the expiration timer. If it is more than 15 seconds, clear all errors and restart Rx. If it is more than 60 seconds, reinitialize the UART interface. If it is more than 24 hours, initiate a warm reboot.
 - If there is a message on Rx but it is addressed to another module, initiate a timer. If it is more than 15 seconds, clear all errors and restart Rx. If it is more than 60 seconds, reinitialize the UART interface. If it is more than 3 hours, initiate a warm reboot.
 - If there is nothing on Tx, start the expiration timer. If it is more than 15 seconds, clear all errors and restart Rx. If it is more than 60 seconds, reinitialize the UART interface. If it is more than 3 hours, initiate a warm reboot.
- The warm reboot timeout in the first scenario (no Rx) is 24 hours because potentially COMM module can be down, but optical modules can continue working.
- Also, with this fix the EEPROM data struct was extended. Now it includes the text area with a reason for the last warm reboot, and for all three cases from above, there is a text area that includes the reason and some state values. These data can be taken from the module by CLI with the EEPROM command.

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