

## NEOxl<sup>®</sup> 80 Firmware Version 2.60 Release Announcement

March 2018

### Preface

This Product Information Bulletin announces the release of NEOxl 80 Version 2.60 for NEOxl 80 libraries.

### Models Affected

NEOxl 80 Version 2.60 is supported as an upgrade for NEOxl 80 libraries running NEOxl 2.50.

### Upgrade Considerations

All systems running NEOxl 80 2.50 can be upgraded to NEOxl 80 2.60.



**CAUTION:** To prevent data corruption, verify that all active backup and recovery jobs to the NEO tape library are completed prior to performing the upgrade.

### Downgrades are Not Supported

NEOxl release downgrades are not supported.

### NEOxl 80 2.60 New Features

Description	Severity
Adds library support for LTO-7 Type M uninitialized media.	Moderate

### NEOxl 80 2.60 Fixed Issues

Description	Severity
SMTP is missing in the system log.	Moderate
Yellow Snow on Cartridge Graphical View.	Moderate
Set limitation of password length to 128 characters.	Moderate
Partition Map > Inventory List add Name of Partition.	Moderate
In case change Internal IP range from RMI during Library scan and Error was reported, Library reboot not reported and option to change IP range is missing.	Moderate

Description	Severity
Log Lib ID not matching in Expert Log Lib Wizard.	Moderate
Event 4146 “LTO-7 formatted cartridge with a Type M barcode detected” reported for LTO-8 tape with M Label.	Moderate
Warning about LTO-7 formatted media with M8 barcode detected on initial load of new cartridge.	Serious
Robotic stays at slow speed after inventory scan.	Serious
Release multiple magazines: Library stays busy forever.	Moderate
Wrong library state when blocking elevator during inventory scan after multi mag removal.	Moderate
Type M Media: Preferred cartridge type should not be set with “save page” bit set.	Moderate
Number of max partitions is not correct in Expert Partition Wizard.	Moderate
LDAP Cleanup	Moderate
LDAP user search doesn't appear to correctly search User DN - MS_01044.	Serious

## Previous NEO 2.xx Changes and Enhancements

This is a cumulative release and includes all upgrades, feature enhancements, and bug fixes from previous NEO 2.xx releases:

## NEOxl 80 2.50 New Features

Description	Severity
Added LTO-8 drive support	
Improved pop-up message when starting system test with a Media Removal prevented drive.	Moderate
Event 4059 - Change message text.	Moderate
Minor event string improvements.	Moderate
Added drive statistic data to system.log file.	Moderate
Maintenance > Logs and Traces > View Logs - drop-down location changed.	Moderate
Updated PHP to version 5.6.31.	Moderate
Adding tracking in cases when trying login on OCP or RMI with wrong PW.	Moderate
Updated pugixml to Version 1.8.	Moderate
Session handling: switching between HTTP and HTTPS improved.	Moderate
Updated SNMP libraries.	Moderate

## NEOxl 80 2.50 Fixed Issues

Description	Severity
“Move failed pulling cartridge from slot” message was not being sent when this condition occurred during an RMI move operation.	Moderate
MSR: Wrong error message on OCP and RMI when inventory scan was interrupted by an emergency stop.	Minor
Robotic doesn't recover from closed shipping lock.	Moderate

Description	Severity
RMI: Initial Configuration Wizard > Network Configuration - validate fields upon Next button click.	Moderate
RMI: Maintenance > View Logs - message of successful clearance of log entries does not require confirmation but has OK button	Moderate
Wellness Test: Event 2047 is not generated when barcode scanning failed on expansion unit.	Moderate
Function of Cartridge button and All button is same in Element to Element Test page.	Moderate
Auto Clean: If one drive has the cleaning tape loaded when a second drive requests cleaning, the library posts a warning event that says no cleaning tape in the partition.	Moderate
Expansion auto-update process does not check version of FBI file.	Moderate
TR:9366>Event 2047 - Wellness test failed because of the barcode scanning test failed - Add extra tape > Barcode scanning test pass.	Moderate
SCSI > Function_ReadElementStatusDTENotReady - When Drive is offline Access Bit of Read Element Status is 1.	Moderate
RMI reports upgrading while library restores configuration.	Moderate
Mailslots not scanned when closed.	Serious
Drive Cleaning request (Event 4002) not set to resolved after cleaning.	Moderate
Rq:1179> The barcode label is not restored to the cartridge inventory.	Moderate
SCSI: Conform_RequestVolumeElementAddress_Assert failed.	Moderate
Event 9000 - Detailed information is missed in email notification.	Moderate
Mailslot was not scanned after closing mailslot and magazine.	Moderate
Database Lookup inconsistency.	Severe
SNMP node sysName (1.3.6.1.2.1.1.5.0) is filled with "MS_TOBEDEFINED."	Moderate
TR:3644>TC:3877>UI:RMI>Rq:814,930>UI-Maintenance-Lib Tests-Robotic Test-Barcode Reader Failed > Multiple Issues Found.	Moderate
HP LTO6 HH SAS and FC - Conform_MS_HP_Inquiry_Standard - TPGS value is incorrect.	Moderate
Emergency stop condition may persist in robotics during warm restart.	Moderate
OCP Virtual Keyboard full keyboard has two section signs (§) but no question (?) mark.	Minor
Additional scan of mailslots after closing right magazine.	Moderate
MS OCP: Stressed Unit with ~250 tickets gets Script timeout.	Moderate
OCP screen flicker in Booting progress page.	Moderate
Button Close all open tickets disappears when "Include closed tickets" option is checked even though some tickets are open.	Moderate
SCSI: Read Element Status returned empty barcode labels after undefining labels and initialization with range.	Moderate
TR:10132>Event 2045 - Wellness test failed because of move media test failed - Robotic block >No Ticket 2045 was generated.	Moderate
After configuring Email Notification incorrect IP Address is sent.	Moderate
Robotics FW crashes sometimes in combination with emergency stop conditions.	Serious
Rq:1179> The barcode label is not restored to the cartridge inventory.	Moderate
Add Signed Certificate Wizard: No data validation.	Moderate
RMI - Help - English - Context sensitivity > Encryption help page is not linked to Encryption subpage when Admin login.	Moderate
Event 4010 won't be generated again if it is cleared before.	Moderate

Description	Severity
Upgrade to version PHP 5.6.30.	Moderate
CVE-2016-10229 - Linux Kernel with MSG_PEEK.	Moderate
SSL wizard entry field has wrong name: Distinguished Name (DN) instead of Common Name (CN).	Moderate
Drives can be powered off when the library tests are running (Unit busy).	Moderate
Trying to restore configuration with corrupted ZIP-file reports wrong error.	Minor
Configuration Log reports Event: 8017 - Library firmware changed after restoring configuration.	Moderate
SCSI - The volume label for cleaning tape is not returned for Request Volume Element Address.	Moderate
Session not working anymore after switch from secure (self-signed) HTTPS Session to HTTP.	Moderate
Attention LED keeps blinking although Events are cleared (green state).	Moderate
SCSI inventory not valid after drive replacement.	Moderate
LDAP User rights, lower role can delete/modify higher role.	Moderate
Configured SMTP address can't get mail notification about Event 2073.	Moderate
Release multiple magazines: Library stays busy forever.	Moderate
Library stays offline after configuration.	Serious
Move robot To Base Module keeps Activity State "Moving."	Moderate
Move Robotic To Base Module > Robotic stays in expansion module.	Moderate
SCSI: incorrect sense code 04/ 80 D7 "Internal software error" after move expired cleaning tape into the drive.	Moderate
LDAP: the implementation of constraints is inconsistent.	Moderate
Communication error to robotics does not generate error ticket.	Serious
Library move commands timing out causing Data Protector jobs to fail.	Serious
The problem "Drive status monitoring failed" occurred.	Serious
Sprint review: Incorrect error reporting when loading Incompatible media.	Moderate
After reboot on IP range change the library hangs with green OCP screen.	Serious

## NEOxl 2.20 New Features

Description	Severity
Event 4102 is missing a proposed solution.	Moderate
Modify shipping position to be the default if No Option Is selected by user on front panel.	Moderate
Improve text of Event 4012.	Moderate
Improve text of Event 4038.	Moderate
Edit event detail for element information.	Moderate
Add proposed solution to ticket entries in ticket log.	Moderate
Add Product ID information to drive status page.	Moderate
CR: add error logging for JS errors and refresh login page once.	Moderate
Add configuration change event when changing values on CVTL configuration page.	Moderate
Update list of supported ciphers in lighttpd server.	Moderate
Add iptables rules to prevent CVE-2015-7547.	Moderate

Description	Severity
Reporting Drive Sled Fan Failure not before fan level 10.	Moderate
CR: Drive Upgrade OCP/RMI gray Submit button out if upgrade of drives is already running.	Moderate
IBM Tape Alert Flag 49 (31h) generates a warning ticket although rated as severity Informational.	Moderate
Add fix for CVE-2016-0728 to Linux kernel.	Moderate
Improve reset handling of robotics controller.	Moderate
Update OpenSSL to version 1.0.2g.	Moderate
Rollback of CR 4305.	Moderate
Update PHP to version 5.6.19.	Moderate
Validate DNS server IPs when entered.	Moderate
OCP Reboot through RMI.	Moderate
Add drive serial number to any tape alert flag ticket.	Moderate
Add button to clear KMIP settings in configuration wizard.	Moderate
Drive status, Fibre channel link status needs to be reworked.	Moderate
Add output of "ifconfig" to OS log.	Moderate
Add workaround for third party OCP hang condition on index pages lx21: Timeout Time increased for Time changing pages (120s).	Moderate
OCP Download Library Logs is missing.	Moderate
Update PHP to latest stable version.	Moderate
Update OpenSSL to latest stable version.	Moderate
Update lighttpd to the latest version.	Moderate

## NEOxl 2.20 Fixed Issues

Description	Severity
TR:3081>TC:2804>UI:OCP>Recovery single block rotation - initial scan - exp level > Multiple Issues Found.	Moderate
No error info if Backplane Flash memory not available.	Moderate
Unlock multiple magazine wizard works not good when a mailslot is unlock for 5 min.	Moderate
Green activity LED not flashing.	Moderate
TR:6202>TC:2705>UI:RMI>Rq:359>PLK encrypted Write, EOD, correct Key is not present > write encrypted data with another key successful.	Moderate
TR:6316>TC:2755>UI:RMI>Rq. 842> Operation - Clean Drive - Verify functionality > After finish Cleaning the Cleaning tape stuck in the drive.	Moderate
UUT undefined status, time out error in module Login.	Moderate
Drive transmit error with new kernel.	Moderate
Reduce number of DB queries for OCP identity data in Chassis Control.	Moderate
Reduce number of DB update operations for network data in System Control.	Moderate
Reduce number of DB update operations for temperatures in Chassis Control.	Moderate
TR:6315>TC:2755>UI:RMI>Rq. 842> Operation - Clean Drive - Verify functionality > RMI pops Error Message "ERROR Insufficient rights for the usecase: GET_ELEMENTS_FOR_CLEAN!"	Moderate

Description	Severity
TR:7111>TC:2612>UI:%Z_UI%>Rq:770>Device-Soft Power Off >= 3 sec > the “Ready/Activity” LED is never blinking when power off.	Moderate
TR:7140>TC:2638>UI:OCP>Rq:374,831>ConfigSys-Save/Restore Config- Reset to default settings > LDAP config and users are disappeared after restoring to default.	Moderate
RB:90 incorrect for LTO7 failover.	Moderate
I/O Error ASC 80 ASCQ D7 happened on init element in case mailslot removed.	Serious
Add new error event when a broken black magazine retention spring falls under the robot.	Moderate
Tooth belt jumps over when try to lock the shipping lock.	Serious
Sled homing and rotation homing needs to be improved.	Moderate
Slider block detected and Gripper opens at this point.	Moderate
TR:7444>TC:2665>UI:RMI>Rq:816>Maint-SW Upgrade-Drive FWDowngrade> The progress shows completed percent as 95% after finishing upgrade.	Moderate
Software error reported in case of overlapping SCSI command.	Moderate
The pop-up ask user to review help page before delete license keys, but no help information mention it.	Moderate
KMIP Encryption Wizard when en-/disable KMIP encryption for a partition the progress indicator is missing when finishing the wizard.	Moderate
SNMP: 4 nodes are not available in hpHttpMgDeviceTable.	Moderate
TestPort: New partition is added after attempt to remove partition with incorrect partition number.	Moderate
Unhandled exception in CPositionToDrive leads to Event 2024.	Moderate
OCP: Zoom Icon on QS Drive Status without effect, remove it.	Moderate
Status > Cartridge Inventory > List View only last unit gets expanded if filtering feature used.	Minor
RESET_CONFIG does not send a message out before shutdown.	Moderate
OCP: undefined value in RecordObject.	Moderate
Database retry operation generates event 2021.	Moderate
Drive unload fails in case of defective cartridge memory.	Moderate
Page Broken because of lost session.	Minor
Misleading error message “Robotics home not found” in case of database errors.	Moderate
Graphical View blocks DB for over 30 seconds.	Serious
CLogout during reboot can lead to error dialog.	Minor
TR:7923>TC:3667>UI:RMI>Rq:816>RMI-Maintenance-SW Upgrades-Drive FW-Page Display > The same type drives aren't listed in a group.	Moderate
Bogus DNS IPs lead to delays during generation of OS.log file.	Moderate
Delays during shutdown can lead to module discovery errors.	Moderate
Possible to access Encryption page while KMIP is configured (during page init).	Moderate
Library stays “not ready” after drive FW update	Moderate
Emergency stop by incorrect sensor signals.	Serious
Drive upgrade fails with software error.	Moderate
PC Bus communication issue leads to Power Supply Fan Failure.	Serious
Read retries and debouncing need to be improved for I2C AD conversion interface.	Moderate
The LTO-7 Multi-Initiator SCSI conflict detection status is not displayed in Partition Configuration Status page.	Moderate

Description	Severity
TR:8069>RMI - Expert Partition Wizard – Not Present Drive -> Drive Not Available.	Moderate
OCP: Setting system time to the past leads to time not updating anymore.	Moderate
Drive Firmware image persists in library file system after upgrade.	Serious
Event Ticket 9001: status is misleading.	Moderate
Invalid DNS entries cause “Internal software error” during partitioning.	Serious
The sixth cartridge or drive cannot display in OCP Move Media page without using loupe.	Moderate
RMI - Status Cartridge Inventory - Graphical View - Cartridge icon and tooltip > Media Type is Unknown instead of N/A.	Moderate
Primary ports may stay off forever in case of certain error conditions.	Moderate
Additional scan of mailslots after closing right magazine.	Moderate
Unhandled exception in CPositionToDrive leads to Event 2024.	Moderate
PHP Notice: Undefined offset: 4 in /opt/storage/scripts/get_tickets.php on line 295.	Minor
Email Notification reports incorrect IP address.	Moderate
Wrong info in RMI > Status > Cartridge Inventory > Graphical View, drive loaded with unlabeled cartridge shows bar code icon.	Moderate
Expert Partition Wizard - unique name for partition is case sensitive.	Moderate
E2E filtered result is incorrect while using filter condition with partial label string and source element type “Drive.”	Moderate
Incompatible tape is not loaded to drive during Element to Element Test when Media Bar Code Compatibility Check is off.	Moderate
RMI Partition Map - Graphical View: Slot Count is always “0” although cartridges are loaded in this partition.	Moderate
Wrong info in RMI > Status > Cartridge Inventory > Graphical View, slot with cartridge without bar code.	Moderate
RMI - Maintenance - Element-to-element Test - test with cleaning cartridge from Drive to Slot should not be possible.	Moderate
OCP and RMI display the module status of a removed library module in different ways.	Moderate
Update dropbear to version 2016.74.	Moderate
Sprint review: Wellness test is trying to unload tape from media removal prevented drive.	Moderate
Change KMIP timeout to 30s.	Moderate
When Robotic Test is stopped it will still continue execution.	Moderate
CRU no info due Controller CRU Handling for bad backup data and failed restore.	Moderate
Incorrect text on RMI page for Robotics test.	Moderate
Event ticket 2061 “Move failed pulling cartridge from drive” is not generated after failed move of tape from a drive to slot.	Moderate
Power Off - no notification if robot failed to lock or take a selected parking position.	Moderate
RMI - Initial Configuration Wizard - Network Configuration - validate fields upon Next button click.	Moderate
System status is Idle when a magazine is keeping Emergency removing and finish the unlock multiple magazine wizard.	Moderate

## Downloads

NEOxl 80s Firmware Version 2.60 is available for download for supported NEO users with active software entitlement agreements. Go to the Overland Storage Customer Support Portal by navigating to the Manage Products page: <http://docs.overlandstorage.com/neo>

Additional documentation on how to operate, configure, and support your NEO library is also available on this site.