

## NEOxl Series® Firmware Version 2.10 Release Announcement

December 2015

### Preface

This Product Information Bulletin announces the release of NEOxl Version 2.10 for NEOxl libraries, which adds support for LTO7 drives.

### Models Affected

NEOxl Version 2.10 is supported as an upgrade for NEOxl libraries running NEOxl 2.00.

### Upgrade Considerations

All systems running NEOxl 2.00 can be upgraded to NEOxl 2.10. It is recommended that a system backup be completed prior to performing the upgrade.

### Downgrades are Not Supported

NEOxl release downgrades are not supported.

### NEOxl 2.10 New Features

Description	Severity
RMI (OCP) operations page: Drive with media removal prevention	Moderate
Inventory needs to be updated if an empty slot is detected unexpectedly	Moderate
String change to RMI Session locking page	Moderate
OCP multiple magazine wizard: add message to user when magazine is being unlocked	Moderate
Modify the firmware upgrading message to warn user it can take a while to upgrade	Moderate
Check for new power supply with removed resistor to call a warning event for fan failure	Moderate
Add personality to RMI drive status	Moderate
OCP/RMI: Move Mailslot Open Button to the module line itself	Moderate
OCP/RMI: Move Magazine Open Button to the module line itself	Moderate
OCP access from LAN on Port 81 should be a to be enabled option	Moderate
Inventory scan upper start position	Moderate
RMI - Link speed setting: add "(default)" next to the 1Gbit speed	Moderate

Description	Severity
CR: Change Drive Upgrade Warning Dialog if Warning/Error happened	Moderate
Add configuration change event for LCM3 and chassis CRU Exchange	Moderate
CR: add Customization Package Revision to system.log and DB	Moderate
Message text changes in Emergency Stop Error Events	Moderate
Implement Sensor-Interface-board emulation	Moderate
Sprint review: Firmware downgrade check needs optimization	Moderate
CR: Drive Activity "Oth. Med" etc. need different RMI/OCP handling	Moderate
Upgrade php to most recent stable version	Moderate
Update OpenSSL to most recent stable version 1.0.2a	Moderate
Cleaning media comment can be improved	Moderate
Adapt Drive Fan Control for IBM drives	Moderate
Add u-boot version to OS.log file	Moderate
Create separate event for drive load ending unseated	Moderate
Cleaning media comment can be improved	Moderate
CR: OCP ScrollBar scroll when "mouse" touch is held down	Moderate
Add media barcode to response of move command and to informational request	Moderate
Change default inquiry data in SCSI Changer application	Moderate
Unknown DCDC Types should not create a Critical Event	Serious
Adjust Drive load / unload position for IBM HH Drive	Serious
LT07 Generation needs to be added in RED Mixed Media Descriptor Extension	Moderate
Disable hop limit check introduced with patch for CVE-2015-2922	Moderate
Add new specific event for I2C access failing to port expander on controller board and improve suggested solution for existing event (sensor board)	Moderate
High level recovery needed for beginning of drive configuration	Serious
Update OpenSSL to latest version 1.0.2d	Moderate
New Robotic FW Version 2.00 Non Encoder	Moderate
Add additional info to troubleshooting steps for certain error events	Moderate
Unit sets the Algorithm Index for LT07 drives to 02H for LT06 and LT07 media	Moderate
Add Explanation Notes to the diag tests on RMI and OCP	Moderate
Event 4039 - Add more details to the proposed solution message	Moderate

## NEOxl 2.10 Fixed Issues

Description	Severity
Rq:435> Attention LED on the OCP does not act as defined	Moderate
The error message is not correct when an invalid format USB disk connecting	Moderate
With Restore Database from File the PW from File will also be restored except the previous configured Admin PW	Moderate

Description	Severity
Loading partitioned tape into unassigned Drive, inventory status shows incorrectly	Moderate
Libraries up more than 40 days seem to have issues upgrading library FW	Moderate
In case Shipping Lock is in a wrong position where it can not be released during Startup then the stack gets not the right event: 2057	Moderate
IBM Drive Gen 5 HH SAS sometimes fails during configuration	Moderate
Error 2052 is fired when close mailslot after release a magazine	Moderate
It shall not be able to initiate Move Media if magazines are removed.	Moderate
Opening multiple magazines is possible if a magazine and mailslot are opened first	Moderate
Open mailslot is possible with magazine removed, but it is still Closed after "Mailslot Unlock" progress disappears	Moderate
AutoCalibration: Exposure adjustment does not report error under some circumstances	Serious
Wrong events generated after removed magazine, and move media failed	Moderate
LDAP Add Server "Test Connection" accept mix of valid and incorrect data without complaint	Moderate
LDAP No input validation when adding a server	Moderate
NPIV warning not resolved when disabling BCPF	Moderate
TR:5052> TC:5583> UI:RMI> Rq:1476> Position Test-Drive Media Prevention set > the remove-prevented Drive is not in the source or destination list	Moderate
SCSI: Wrong sense code when try to move incompatible tape into drive	Serious
It shall not allow to unlock mailslot during Position test	Moderate
Missing Secure Attribute in Encrypted Session (SSL) Cookie	Moderate
OCP backlight brightness still being low with touching if Magazine is removed	Moderate
Mailslot unlocked magazine can be selected on "Unlock Multiple Magazines" wizard	Moderate
Unlock of Mailslot not possible if left magazine in same unit is removed	Moderate
OCP login not possible when RMI is logged in and connection to DHCP is lost	Moderate
OCP username list is not updated automatically after added/deleted an LDAP user	Moderate
Basic CPF, passive drive not present, expect event 4057 but 4066 is fired	Moderate
OCP display is confused after pressing login button many times	Moderate
"Submit" button is inactive in Drive Firmware Page after select drive and firmware to upgrade	Moderate
Removed Drive should not be selected or note that drive is removed when select LUN drive	Moderate
Vulnerability: Simple way to login as admin/security into RMI if pass is not configured (using OCP via Desktop Browser)	Moderate
Autocalibration: no event generated if reading of BCR video data fails	Moderate
TR:5336> TC:72> UI:RMI> Rq:386, 838>ConfigNw-IPv4-Manual-Verify Invalid IPv4 Gateway> Invalid gateway can be set	Moderate
Impossible to disable Encryption in case no Partition is enabled	Moderate
TR:5353> TC:5212> UI:RMI> Rq:1369> EventCode-2072-Bottom Cover Detected at an incorrect position - check the ticket - generic notification> SMTP and SNMP cannot receive the startup halted event	Moderate
The Disabled button in OCP Allow Unlabeled Media page should be changed to "Enabled" in default status	Moderate

Description	Severity
Reboot events not clear	Moderate
RMI service log: All information in small column 'error code'	Minor
Mailslots can be opened during the media move commanded by the client	Moderate
After successful reboot, the clock in Login page shows every time the same time	Minor
Rq:1299> Configuration Event: "Mailslot / Magazine access control configuration changed - 8024: includes only numbers for PARAM1	Moderate
Power Supply S/N not handled correctly	Moderate
Mailslot must be clickable if Library is Busy	Moderate
TR:5360> TC:4994> UI:RMI> Rq:1179>Trojan horse cartridge-Install drive loaded with incorrectly labeled data cartridge>Media generation and Media loads are N/A	Moderate
RMI: link speed naming not correct	Minor
825: Story: Robotic CycleCounter update	Moderate
Bridge code can't upgrade expansion module	Moderate
TR:5457> TC:3002> UI:%Z_UI%> Rq:807> Config-Initial Configuration Wizard-OCP> OCP is logged out automatically after update Date&Time	Moderate
Spaces returned on Inquiry page 80 instead of serial number	Moderate
The status of the "stop test" button in Robotic test page is changed during robotic test	Moderate
Library shutdown not possible due to hang of fping tool	Moderate
Rq:1504> Inc ase send XML command: ROB_GET_MOVE_CYCLE_COUNTER the Robotic counter is updatd in NVM	Moderate
LDAP, it is possible for an LDAP admin to change its role	Moderate
SCSI, some commands not working with LTO7 drive	Moderate
OCP - Stop Test Button gets inactive when the cycles value change during System Test running	Moderate
Edit the LDAP Servers information, Secondary/Backup Server's port is 0.	Moderate
Move OpenSSL to 1.0.1l	Moderate
Library status changes to "Test Running" when start Slot To Slot Test failed without cartridge in library	Moderate
TR:5535> TC:5681>UI:OCP>Rq:386>ConfigNetwork-Max Link Speed>Failed to set Max Link Speed on OCP	Moderate
Transport element exception bit not set in case of critical move error	Moderate
NotReady status check missing in SCSI changer implementation	Serious
Two different CSS Class for the same option "field section collapsed"	Minor
MAC address missing on RMI, network status	Moderate
Configuring a valid SMTP server is failed, and the server address disappears after popping up the error message	Moderate
Robotic SN not correctly shown in syslog	Moderate
IBM Drive prior to Gen4 refresh fails to configure	Moderate
Force Drive Media Eject not possible if Drive is not in Ready State	Moderate
TR:5705>TC:2612>UI:%Z_UI%>Rq:770>Device-Soft Power Off >=3 sec> Only Loginpage open on RMI but the popup about Connection Loss does not occur after 8 min waiting	Moderate

Description	Severity
Drive sled Fan at full speed during start up	Serious
In case Domain Name is empty, Network Changes can not be submitted	Moderate
Media changer not visible on SCSI bus until inventory scan finished (IBM drives)	Serious
Can't receive emails from library if SMTP security is set to STARTTLS	Moderate
SMTP: AUTH PLAIN doesn't work	Moderate
Expansion Units time is not synchronized early enough	Moderate
Kernel BUG() in Cavium network driver	Serious
Emergency upgrade from USB doesn't work complete	Moderate
Setting IPv6 SMTP server is failed while Network protocol is set as IPv6	Moderate
The selected source and destination is not displayed after clicking the filter in library test pages	Moderate
Self signed certificate, invalid certificate accepted without error message	Moderate
TR:5345>TC:2034>UI:RMI>Rq:840,256>Configuration - Network - Host Name - Char Length>Host name is blank after rebooting	Moderate
Improve event reporting in case of module connection loss due to high network activity	Moderate
Highlevel command to read out logs stored in robotics does not work	Moderate
Community is displayed differently for SNMPv3 target	Moderate
Logical Numbering on Pages not consistent Partition Number is Physical Number	Moderate
In OCP Loginpage when User Is selected Mouse Pointer is visible	Moderate
USB controlled on LCM3 not initialized	Serious
Start Element 2 Element Test > Navigate to Position Test => E2E Test influence Status of P2P Test	Minor
Drive FW upgrade failed if filename contains whitespace	Moderate
No event reported for failing move from tape drive	Serious
Event 9035 is generated after ever powering on library, even no changes for the Stack	Moderate
U-Boot timing issue initializing the eMMC	Serious
CVE-2015-2922L IPv6 Hop limit lowering via RA messages	Moderate
No IPvP "parameter problem" messages in Kernel 3.8	Moderate
KMIP, it is possible to start and configure a stack with KMIP Wizard while a drive in a partition is loaded	Serious
Library stack sometimes not switching off at the end of a Linux Shutdown	Serious
After finish manual Clean Drive an Error was fire: move cartridge operation failed due to drive or media issue	Moderate
IBM Gen 7 drive not correctly rejected by Whitebox code	Moderate
Set "Connection Ready" line to "Not Ready" during boot / shutdown	Moderate
Firmware feature flag checking not working correctly for LT Encryption feature	Moderate
Rq:245>Requiemet for Cleaning Request Status is missing	Moderate
Rq:1662>scroll definitions missing	Moderate
Magazine Handling: Media Removal Prevention set Buttons missing on Magazine Page	Moderate
Create error event by failing write to flash	Moderate

Description	Severity
Drive transmit error with new kernel	Moderate
SCSI hang after abort between process CDB and SendData phase command	Serious
Increase margin of “sled range” sensor check during library initialization	Moderate
No IP address after reboot	Moderate
TR:5504>TC:3839>Backup with BackupExec 2010 and KMIP >37 of 555 backupjobs failed basically all jobs say “media is write protected”	Serious
Event 2005 Spooling Cable Failure occurred during Power Cycle Testing	Moderate
DB Error while running SCSI Test and drive insert	Moderate
Performing a soft shutdown during a diag test results in the auto park routine being skipped	Moderate
The Open Magazine page layout is not good after preventing media removal for partial magazine	Minor
Expert Wizard >4 Unit Stack, not able to use only lowest slot 1.1 - 1.5 also First Drive with Phy Num 1 not useable on Phy Unit 1	Moderate
Incorrect SCSI result message returned to drive on ADI interface	Moderate
Status > Network Status > Domain Name needs improved wrapping to handle extra long domain names	Moderate
TR:6914>TC:3267>UI:OCP-General Walkthrough>Change IPv4 DHCP to static, the DNS 1 & DNS 2 display incorrect value	Moderate
Additional sensor check required after shaking off shipping lock	Moderate
Download button for OCP support tickets needs pressed twice	Moderate
Successful database retires result in error being reported	Moderate
Empty Slot Detection failed on unit	Serious
Problem of “ImpExp bit value” detected in Unit	Serious
Power supply changed event after reboot in at least dual stack configuration	Moderate
Change Power Down Busy Text on OCP	Moderate
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
I/O Error ASC 80 ASCQ D7 happening on init element in case mailslot removed	Serious
Expansion date and time are not synchronized with the base	Moderate
Event 2009 - Incorrect description	Moderate
OCP Move media Page SRC elements are sometimes mixed up	Moderate
Writing temperature to application Trace log	Moderate

## Downloads

NEOxl Series Firmware Version 2.10 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.