NEOxl Series® Firmware Version 2.20 Release Announcement

December 2016

Preface

This Product Information Bulletin announces the release of NEOxl Version 2.20 for NEOxl libraries.

Models Affected

NEOxl Version 2.20 is supported as an upgrade for NEOxl libraries running NEOxl 2.10.

Upgrade Considerations

All systems running NEOxl 2.10 can be upgraded to NEOxl 2.20.

⚠️ **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 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 Ix21: 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 erro 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 usescase: 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 Series Firmware Version 2.20 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.