NEOxl 40 Firmware Version 1.3.0 Release Announcement

October 2021

Preface

This Release Bulletin announces the release of NEOxl firmware version 1.3.0 for all NEOxl 40 libraries.

Models Affected

NEOxl 40 firmware version 1.3.0 is supported as an upgrade for NEOxl 40 libraries running NEOxl 1.2.0.

Upgrade Considerations

All systems running firmware version 1.2.0 can be upgraded to firmware version 1.3.0.

⚠️ **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

Downgrades are not supported.

NEOxl 40 1.3.0 New Features

Description	Severity
Remove not needed Event_default_records_versions from AutoBuild Process.	Moderate
LDAP: We need to lower the security level while keeping enforcement of TLS1.2 to ensure backwards compatibility.	Moderate
Change Remote Logging standard settings.	Minor
LDAP Server configuration needs clarifying examples.	Moderate
Kerberos Server configuration needs clarifying examples.	Moderate
LDAP: connectivity fails without comprehensive error message.	Moderate
In case no LDAP server is configured so far, adding LDAP users shall be disabled.	Moderate
Event 2092 add solution suggestion.	Moderate
Implement HTTP Strict-Transport-Security response header (HSTS).	Moderate
Expert Wizard: Allow launch of wizard if drives are loaded and check per partition if Edit is allowed.	Moderate
Serial Number not displayed on OCP.	Moderate
SMTP - Add more Details to Send TestMail Dialog in case of Error.	Moderate
Event 4060 - Connection to the KMIP server failed. Show more details.	Moderate
WebServer set SameSite Cookie Header to Strict.	Moderate

Description	Severity
Add "Content-Security-Policy" header with secure policies.	Moderate
Add X-Content-Type-Options Response Header with "nosniff".	Moderate
Add the "X-XSS-Protection" header with value '1' (enabled) and mode=block.	Moderate
Different handling and error case dialog in Multistak and Multistor.	Minor
Enhance library test ticket entries with additional information.	Moderate
Discrepancy between Product documentation and event log suggestion - Event 4079 Unlocking the I/O station failed.	Minor

NEOxl 40 1.3.0 Resolved Issues

Description	Severity
LDAP Query returns not applicable Servers as users server.	Moderate
DB Reset if staging fails due to special characters in DB like Ö, Ä, Å, etc.	Serious
SSL Create Custom Certificate Wizard fails to generate CSR if hostname is 65 characters long.	Moderate
Backup Custom Cert may fail.	Minor
Logs sorting is strange when "Show all" option is selected.	Moderate
There should not be brackets around "(OCP)".	Minor
Timezone selection control allows to set up time zones like America/Kentucky/null.	Moderate
IPv6 DNS does not work for SNTP server.	Moderate
UNIT_SERIAL_NO not filled for the Units DB.	Moderate
IPv6 DNS does not work for SNTP server.	Moderate
Event 9008: should spell "an NTP" not "a NTP."	Minor
SNMP: Change pop-up icon from information to error/warning.	Minor
LDAP user could modify its own role	Moderate
KMIP does not work over IPv6.	Serious
Error message says: USB flash drive not accessible. Multiple USB flash drives found.	Minor
Currently used version of fping does not support IPv6.	Moderate
Add LCM S/N to the system log.	Moderate
Error message says: USB flash drive not accessible. Multiple USB flash drives found. ROOT CAUSE: OCP in MSR used different method for mounting USB devices, now using same method like in MST over SystemConfiguration Application. SOLUTION: Use system configurator for mounting instead of own OCP Application handling to have common error codes.	Minor
Current page is displayed incorrectly after initial config wizard has been called. ROOT CAUSE: Button press takes focus and changed menu, but menu without content page. SOLUTION: Fix for initial wizard taking focus instead of keeping previous menu selected.	Minor
Troubleshooting steps for Event 2065 and 2097 need to be extended. SOLUTION: FIX\IMPROVEMENT DESCRIPTION: Proposed solutions for event 2065 and 2097 changed.	Moderate
Non-database related settings remain on the system if configuration is restored from file. SOLUTION: Now removing certificates and licenses after successful restore of config file.	Moderate

Description	Severity
Kerberos Default Domain not used. ROOT CAUSE: Default_domain was not used although it was input by user. SOLUTION: Now using default_domain krb5.conf.	Moderate
Critical ticket with no error (ERC_NO_ERR) occurred during auto-calibration. SOLUTION: FIX\IMPROVEMENT DESCRIPTION: When an communication error occurs while robotic calibrating at partigwall, its now reported.	Moderate
AppsMain sends a lot of activity change notifications to SNMP although no activity change happened. ROOT CAUSE: No check were present if activity really changed. SOLUTION: Fixed by checking if state really changed.	Moderate
KMIP IPv6 KeyRequest failed. ROOT CAUSE: Key-Request failed if only one KMIP Server was configured with IPV6; the property update missed correct IPv6 format for config. If multiple servers are configured, the fallbacks were used correctly. SOLUTION: Adapted IPv6 to correct config compatible format on key-request.	Serious
LDAP uses CN for authentication and lookup, but it shall use the attribute for Username - INTERNAL. ROOT CAUSE: Attribute mapping was always done against "cn" instead of the user defined attribute mapping. SOLUTION: Now we use given attribute mapping for looking up the users on the server and authentication.	Moderate
"UNINTENDED TERMINATION OF APPLICATION PROCESS" SNMP (CAppConnect) occurred. ROOT CAUSE: CMessageQueue was not locked by accessing the size() function. This might cause problems. In this case, std::list push/pop functions specifications say that the container is modified. While the size function specification says that the container is accessed. Generally, whenever some data is accessed or modified by more than one thread and modified by at least one of the threads, then all access and modifications must be protected by mutual exclusion. SOLUTION: 1. FIX\IMPROVEMENT DESCRIPTION: CMessageQueue size() access is now also protected by a mutex to prevent multiple threads to read out size and do a deletion on that container.	Serious
AUTOMATIC_MAGAZINE_CALIBRATION with type CAL_TYPE_STACK does not store calibration Data. SOLUTION: FIX\IMPROVEMENT DESCRIPTION: Calibration data are now also stored with REST command calibrate full stack.	Moderate
System uses localtime as timestamp instead of UTC (seen in Events). SOLUTION: Changed getTimestamp and setTimestamp to use UTC gmtime.	Moderate
Tape handling using RAA-Bit from VHF-Data. SOLUTION: FIX\IMPROVEMENT DESCRIPTION: Drive load/unload behavior reworked to take care of RAA bit in VHF data as requested by IBM drive team to handle mount issues with bad media correctly.	Moderate
SNMP application crashes (Event 2036). ROOT CAUSE: Newest Agent++ and SNMP++ lead to SNMPV3 crash. SOLUTION: Updated Agent++ to 4.2.0 and SNMP++ to 3.3.13.	Serious
TAF 28d is not reported for redundant power supply. SOLUTION: FIX\IMPROVEMENT DESCRIPTION: Fixed with complete rework of TAF module.	Moderate

Description	Severity
Expansion Units get Time Synced but not the Timezone (misleading information). ROOT CAUSE: Timezone was not synced. SOLUTION: FIX\IMPROVEMENT DESCRIPTION: Sync timezone on startup and on timezone change. Logs on expansion are in UTC but systemtime is now the same as on base unit.	Moderate

NEOxl 40 1.3.0 Implemented Stories

Description	Severity
Remove feature "Allow Unlabeled Media" from the Web GUI.	Moderate
ip6tables is not working.	Serious
ip6tables are empty.	Moderate
KMIP events cannot be fired a second time until the unit is rebooted.	Moderate
Robotic Lock Lever not fully locked or unlocked.	Moderate
Think about rework of VPD Handling 40 Slot Field issues.	Serious
LTO-9 support.	Moderate
Able to disable encryption with restore defaults.	Moderate
Increase Load Timeout for LTO-9 drives.	Serious
Incorrect positioning of rotation axis.	Moderate
"Minimum number of days before password can be changed" Password Policy missing.	Moderate

Downloads

NEOxl 40 firmware version 1.3.0 is available for download for supported NEO users with active software entitlement agreements. Go to https://download.overlandtandberg.com/Firmware/Neo_Series/Neo-XL/NEOxl40/.

Additional documentation on how to operate, configure, and support your NEO library is available at https://www.overlandtandberg.com/knowledgebase/.

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