

## OPTICAL TRANSPORT SYSTEM SOFTWARE RELEASE NOTES 4.10 - 3.9

### Software Revision:

- ▶ 4.10

### Issued:

- ▶ April 20, 2018

### Highlights of Changes

#### New Features:

- ▶ CT44/45 High Output CT transmitters added display of laser power in mW in addition to dBm reading. Also now displays composite output power in dBm.

#### GUI Improvements:

- ▶ Implementation of new GUI interface on TranScend platform.
- ▶ Option to upgrade firmware using local file explorer option over HTTP. Legacy FTP method still supported.
- ▶ Allow user to enter information unique to each channel as opposed to one box (release 4.9) .40 characters max per channel.
- ▶ Improved speed and response time.
- ▶ Corrected key collision on multi-form attribute submission.
- ▶ Display 'loading' when general/system information is not yet available.
- ▶ For parameters with alarm enable/disable option, the current value is reported much faster after reboot.

#### Known Limitations:

- ▶ Microsoft® Edge not supported.

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### Software Revision:

- ▶ 4.9

### Issued:

- ▶ February 28, 2018

### Highlights of Changes

#### New Features:

- ▶ Alarm enable/disable on CF-QRRX and CF-DMTx (must use application module firmware release 1.15 or later).

#### GUI Improvements:

- ▶ GUI user note fields for slot module information and status (only printable characters supported. Only accessible via GUI. Stored in persistent memory and maintained across power cycle or module replacement of same type in same slot, 60 chars per field).
- ▶ GUI user configurable session timeout.
- ▶ For write-able values on GUI, the current state of variable is now displayed immediately above the set value so that it can be easily seen when the set is successful in application module.

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### Software Revision:

- ▶ 4.8

### Issued:

- ▶ January 11, 2018

### Highlights of Changes

#### GUI Improvements:

- ▶ Customer adjustable Date/Time.
- ▶ Faster response/navigation.

- ▶ Fixed caching issue in some browsers.
- ▶ Simplified IP change interface.
- ▶ Simplified FTP firmware upgrade interface.
- ▶ Download progress indicator added to firmware upgrade.
- ▶ Includes link on login page to legacy web interface for customers that prefer original version.
- ▶ Auto-refresh does not jump to top of page.
- ▶ Readback button functionality removed – values will update automatically after user change.

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**Software Revision:**

- ▶ 4.7

**Issued:**

- ▶ November 10, 2017

**Highlights of Changes****GUI Improvements:**

- ▶ Performance improvement.
- ▶ Replace InnoTrans with ATX logos.

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**Software Revision:**

- ▶ 4.6

**Issued:**

- ▶ September 29, 2017

**Highlights of Changes****Added New Modules:**

- ▶ ChromaFlex
  - ▶ CMX (ChromaMax), CIR, CT44/CT45, CT2, QRRX-DS, PON-EDFA, QRRX-DS, CF-CPA-EDFA
- ▶ IHUB
  - ▶ RRM, RRMS

**New Features/Improvements:****GUI Improvements:**

- ▶ Added spinning circle while waiting to indicate activity.
- ▶ Merge Slot pages, status, alarm and setup, in single page.
- ▶ Increased speed of web page update.
- ▶ Allow IP address change on web GUI. Upon 'Network' change, the active GUI session will be dropped, user must go to new IP and change own IP to matching subnet of computer if necessary.
- ▶ Changed the wording "Provision" to "Setup".
- ▶ Fixed the typo in GainControl GUI definition, one too many options. No user impact.
- ▶ Added the support of HMS Optical Switch MIB for CF-QRRX-DS only (Mode, Control, Position, Description, Both Input Status, Input Threshold, Revert Enable).
- ▶ Set the Threshold settable range 0 to -20dBm per datasheet.

**CLI Bug Fixes:**

- ▶ Fixed the triple slot display in CLI slot command, the 3rd slot display in triple slot module was dropped.
- ▶ Fixed the network bug that network configuration might be partial when the route is incorrectly entered.
- ▶ Added Fiberlength in SNMP set.
- ▶ Added remote Test Point configuration support.

**Software Revision:**

- ▶ 4.5

**Issued:**

- ▶ April 5, 2016

**Highlights of Changes****New Features/Improvements:**

- ▶ Major improvements in HTTP based GUI.
- ▶ Graphic based input methods, including slider bars, checkboxes, radio buttons, etc.
- ▶ Changed the help display to flyover text with mouse pointer.
- ▶ Populating sub-module alarm color upwards; corresponding parent slot reflects the color of sub-module alarms.
- ▶ Improved GUI user log on performance.
- ▶ HTML5 compliance; reduce the possibility of browser incompatibility.
- ▶ Reduced redundant error checking, better fault tolerance.
- ▶ Improved Proxy I-HUB monitoring performance.
- ▶ Improved CLI telnet initial logon synchronization with chassis.
- ▶ ChromaFlex Destacker: Added Channel Mode writeable variable.
- ▶ SNMP: Added support of writeable Trap Community.

**Product Additions/Obsolescence:**

- ▶ ChromaFlex: Added support of DeStacker module.

**Bug Fixes:**

- ▶ No known bug fixes included.
- ▶ Updated MIB files.

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**Software Revision:**

- ▶ 4.4

**Issued:**

- ▶ February 5, 2016

**Highlights of Changes****New Features/Improvements:**

- ▶ GUI: Added display of login user name.
- ▶ GUI/CLI: Added wavelength display.

**Product Additions/Obsolescence:**

- ▶ ChromaFlex: Added DMTx (1310), DMTx4 (ITU), Fixed Output CCT1-FO.

**Bug Fixes:**

- ▶ I-HUB attribute reading might be incorrectly retrieved from proxy parent module if the child module contains the identical attribute.
- ▶ Updated MIB files.

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**Software Revision:**

- ▶ 4.3

**Issued:**

▶ October 23, 2015

## Highlights of Changes

### New Features/Improvements:

- ▶ Added new feature "User Account Management".
- ▶ Support multiple users and privilege levels.
- ▶ Support administrator's account and administrative privilege.
- ▶ Support add/delete user, change of passwords.
- ▶ Added delivery of I-HUB module alarm traps on individual attributes via Proxy (DeStacker Proxy) module.

### Product Additions/Obsolescence:

- ▶ ChromaFlex: Added Variable Output CCT1-VO, Variable Gain EDFA, Optical Switch.

### Bug Fixes:

- ▶ Suppress the console output when query comes from GUI interface.
- ▶ Updated MIB files.

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### Software Revision:

- ▶ 4.2

### Issued:

- ▶ August 14, 2015

## Highlights of Changes

### New Features/Improvements:

- ▶ GUI: Added "Module Temperature" and "Module Temperature Alarm".

### Product Additions/Obsolescence:

- ▶ ChromaFlex: Added CCT1.

### Bug Fixes:

- ▶ Fixed SNMP notification format.
- ▶ Fixed typos in help menu.
- ▶ System software release note.
- ▶ Updated MIB files.

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### Software Revision:

- ▶ 4.1

### Issued:

- ▶ May 29, 2015

## Highlights of Changes

### New Features/Improvements:

- ▶ ChromaFlex EDFA: Added Gain as configure-able and monitor-able attribute. Alarm on Gain instead of optical output power.
- ▶ ChromaFlex EDFA: Added writeable variable for gain setting.
- ▶ Included module temperature information in System Status page in GUI.

### Product Additions/Obsolescence:

- ▶ Transcend: Added support for OptoStacker.
- ▶ Chromadigm: Dual-EDFA modules. Moved all Chromadigm 1RU based EDFA products to Chromadigm-IR chassis based.
- ▶ I-HUB: Added M2 OptoStacker.

**Bug Fixes:**

- ▶ ALL - Fixed some CLI commands require space before carriage return.
- ▶ Chromadigm-IR based EDFA: Removed laser temperature and alarm, pump power. Added laser bias, gain.
- ▶ Dual Stage EDFA: Removed output power alarm, added gain and gain alarm
- ▶ Transcend EDFA: Added attenuation and gain set.
- ▶ Transcend OptoStacker: Removed gain reserve, channel mode, added attenuation attributes.
- ▶ Transcend Forward Receiver: Added RF power attribute.
- ▶ I-HUB: Improved the load balancing of slots status and alarm polling.
- ▶ Updated MIB files.

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**Software Revision:**

- ▶ 4.0

**Issued:**

- ▶ February 3, 2015

**Highlights of Changes****New Features/Improvements:**

- ▶ ALL - Release of web HTTP based GUI.
- ▶ ChromaFlex: Added support of attribute configuration through CLI, SNMP and GUI. Allow user to configure attributes that are only supported via front panel display, such as gain, attenuation, etc.

**Product Additions/Obsolescence:**

- ▶ Release support of ChromaFlex chassis.
- ▶ CF-Added new modules (Dual EDFA, AGC EDFA, EDFA, AGC-N, QRRX).
- ▶ I-HUB - Added Dual Stage EDFA.

**Bug Fixes:**

- ▶ ChromaFlex - Changed handling of writeable parameters to removable modules.
- ▶ ChromaFlex - Improved CLI logout, handled session termination corner case bug.
- ▶ CF, TSD, Chromadigm - Corrected typo Dbm to dBm. CLI and GUI.
- ▶ ChromaFlex - FIX - SNMP trap address sequence.
- ▶ ChromaFlex/TSD - Module name change. AGC-N to CCTX.
- ▶ ChromaFlex/TSD - Changed channel mode data type from integer to string.
- ▶ I-HUB - Fixed help menu of Channel Mode.
- ▶ I-HUB - Module detection after soft reboot.
- ▶ Fixed SNMP: Added support of I-HUB index for 1-way supervision; support of write objects.
- ▶ Update MIB files.

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**Software Revision:**

- ▶ 3.9

**Issued:**

- ▶ November 20, 2014

**Highlights of Changes**

## New Features/Improvements:

- ▶ TSD - Added reboot command for field technician debug.
- ▶ ALL - Restrict the SNMP community string "public" as read-only user.
- ▶ ALL - Added support to allow all user interfaces to view the status of software download.

## Product Additions/Obsolescence:

- ▶ None.

## Bug Fixes:

- ▶ I-HUB - Fixed alarming condition not clearing properly.
- ▶ I-HUB - CLI interface change to restrict switching menu between IHUBs within IHUB menu when monitoring multiple IHUBs.
- ▶ ALL - Fixed the CLI channel mode help description.
- ▶ ALL - Improving inter process communication performance to better support I-HUB 1-way communication under heavy load configuration.
- ▶ Updated MIB files.

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Changes affect all product lines unless otherwise noted (CD Chromadigm, TSD TranScend, CF ChromaFlex, I-HUB).

GUI: Graphical User Interface over HTTP, CLI: Local interface with handheld client.  
See [firmware upgrade instructions](#).

Although every effort has been taken to ensure the accuracy of this document it may be necessary, without notice, to make amendments or correct omissions.

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