



## FX150/150+ OTDR/OLS/OPM/OLTS Package Firmware/Software Updates

*Upgrade procedures are provided at the end of this document.*

**Software version: 02.04.0005**

**July 31, 2026**

### Release Scope:

Maintenance Release. General Availability  
Boot Rom version: 4.2.2  
CPLD version: 10

### OTDR features and improvements:

1. General Enhancement
  - a. All OTDR configurations (including OTDRs without OPM) will display the Calibration Date on the system Utilities>About page
2. File operations and Reports
  - a. No changes
3. OTDR features and improvements
  - a. No changes
4. JSON/Waldo Test mode only
  - a. Enabled PN 499-05-1101 for specific serial numbers based on embedded SN list
  - b. Added a customizable profile 499-05-1119, to automatically turn FLOW on
5. V-Scout® and Link Map changes
  - a. No changes

### OPM/OLS/VFL/PFP Splitter features and improvements:

1. No changes

### Digital Fiber Inspection Scope improvements:

1. No changes

### FLOW® improvements:

1. No changes

**Software version: 02.04.0002**

**July 7, 2026**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.2.1  
CPLD version: 10

### OTDR features and improvements:

1. General Enhancement
  - a. Added Calibration Date to the About system information
  - b. Added option to save test reports with the calibration date; default mode is disable
  - c. Added the Greek language and updated Spanish language translations
  - d. Added software upgrade capability through VX-Connect app
2. File operations and Reports
  - a. Added functionality to easily re-upload/sync results to Fiberizer™ Cloud, if accidental deletions or file relocations are encountered



3. OTDR features and improvements
  - a. No changes
4. JSON/Waldo Test mode only
  - a. Added a Strand Length  $\neq$  column in the PON test sheet to alert the user when strands measured at a share site have lengths differing by more than 10ft and provide a redo shortcut that jumps to that specific strand in the OTDR for retesting.
  - b. Added additional profiles
5. V-Scout® and Link Map changes
  - a. No changes

### OPM/OLS/VFL/PFP Splitter features and improvements:

1. No changes

### Digital Fiber Inspection Scope improvements:

1. No changes

### FLOW® improvements:

1. Added ROADM qualification FLOW profiles
2. Added a file name tag to indicate if a circuit contains an ST connector.

### Known Issues:

1. An OTDR without an OPM will not display the Calibration Date on the system Utilities>About page.

**Software version: 02.03.0001**

**February 27, 2026**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.2.1  
CPLD version: 10

### OTDR features and improvements:

1. General Enhancement
  - a. Enhanced the web interface software upgrade process allowing users to save test results before proceeding
  - b. Supports new Live Macrobend Buster OTDR optical configuration that will work on coexistent 1G/10G and 25G PON networks
  - c. Updated translation for multiple languages
  - d. Reformatted language change dialog box in the Global setting for improved readability
  - e. Reformatted MPO OTDR button label for improved readability
  - f. Improved OPX-BOX Bluetooth connection handling
2. File operations and Reports
  - a. Improved USB file export stability
  - b. Increased the web interface file download limit from 5 to 15 results at a time
3. OTDR features and improvements
  - a. Changed the 25 ns pulse width option to 30 ns
  - b. Improved auto mode maximum length selection algorithm
  - c. Adjusted trace colors for better visibility
  - d. Improved Macrobend detection
4. JSON/Waldo Test mode only
  - a. Added additional profiles
  - b. Added a length detection feature to PON test sheets, alerting the user when fiber lengths at the same terminal location differ by more than 10 ft
  - c. Assigned G\_652\_D\_ATT as the default fiber model for profiles



- d. Fixed the Saving Pass/Fail Thresholds bug
- e. Added OPM or OTDR identifier on the JSON result file names for additional clarification
- 5. V-Scout® and LinkMap changes
  - a. Added fixed connector/splice detection setting to ONT-Splitter and Splitter-ONT test modes

### OPM/OLS/VFL/PFP Splitter features and improvements:

- 1. No changes

### Digital Fiber Inspection Scope improvements:

- 1. No changes

### FLOW improvements:

- 1. Added an information dialog reminding user to save the result in FLOW when FLOW is enabled and active.
- 2. Removed Test Characteristics table from Fiberscope results (only in Flow).

**Software version: 02.02.0001**

**July 9, 2025**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.1.2  
CPLD version: 10

### OTDR features and improvements:

- 1. General Enhancement
  - a. Fixed issue when a background application leaves a residual pop-up image on display when switching between Apps using HOME button
- 2. File operations and Reports
  - a. No changes
- 3. OTDR features and improvements
  - a. No changes
- 4. JSON/Waldo Test mode only
  - a. No changes
- 5. V-Scout® and LinkMap changes
  - a. No changes

### OPM/OLS/VFL/PFP Splitter features and improvements:

- 1. No changes

### Digital Fiber Inspection Scope improvements:

- 1. No changes

### Known Issues:

- 1. When PTS form has an empty cell, this results in misalignment of data and value from next row applied
- 2. Unable to clear Results Folder Cloud Sync even after closing OTDR App or logging off Fiberizer Cloud

**Software version: 02.02.0000**

**June 23, 2025**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.1.2  
CPLD version: 10

### OTDR features and improvements:

1. General Enhancement
  - a. Enabled Advanced Management option for Sales to include SNs missing from the original list
  - b. Updated Japanese translation
  - c. Shows OPX-BOX entries only in Bluetooth selection menu
  - d. Automatically connects to the previously successfully connected Bluetooth device
  - e. Tweaked Bluetooth menu fonts
  - f. Doesn't show duplicate entries in the Bluetooth menu
  - g. OTDR Viewer: Added "Setup..." button to the left panel menu for Auto Save, Cloud, Reset Con etc.
  - h. Fixed the long span test issue
  - i. Disabled item editing in profile loading menus
2. File operations and Reports
  - a. Performs renaming OTDR results in the same manner as the platform file manager for R-Server upload.
  - b. Prevents application crashing due to corrupted result files
  - c. Fixed format issue with latency value in test report
  - d. Limited on-board renaming feature to test filename only (OTDR, OPM, FIBERSCOPE); user will no longer be able to rename jobID, cableID, or fiberID
3. OTDR features and improvements
  - a. Improved measurement and analysis performance
  - b. Adjusted Live measurement averaging
4. JSON/Waldo Test mode only
  - a. Updated PON test sheet to show enlarged, highlighted window for active test row and removed CableID column
  - b. If a SPAN Begin length is defined, the Okm event type will be labeled as a "Launch" type within .json file to avoid P/F thresholds failing due to glass type mismatch. On-board LinkMap event type will remain either splice or connector depending on reflectance value.
  - c. Always displays the Realtime (RT) button on the right menu; the RT button setting is removed
  - d. If both 1310/1550nm wavelengths are not enabled when starting test, warning message will prompt users if they want to continue with single wavelength testing.
  - e. Fixed F2\_PON Setup profile initialization issue
  - f. PFP Power: Automatically reloads document according to the platform UI selection
  - g. PFP Power: Fixed current panel cell selection when a new document loaded
  - h. PFP Power: Start->New drops current document in WALDO mode
5. V-Scout® and LinkMap changes
  - a. Preserves the SPAN Begin event loss setting when rebuilding a LinkMap
  - b. Matches test report icon for splitter with LinkMap iconic image

### OPM/OLS/VFL/PFP Splitter features and improvements:

1. Added an About button to the OPM Table tab; maintenance server access is not available in the About tab

### Digital Fiber Inspection Scope improvements:

1. Changed text from NaN to N/A in the Analysis table
2. Fixed issue that occurs with viewing Analysis table operating in Japanese language

**Software version: 02.01.0003**

**April 25, 2025**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.1.2  
CPLD version: 10



## OTDR features and improvements:

1. General Enhancement
  - a) Enable Advanced Management option for Sales supplied SN
2. File operations
  - a) No changes
3. OTDR features and improvements
  - a) No changes
4. JSON/Waldo mode
  - a) No changes
5. V-Scout® and LinkMap changes
  - a) No changes

## OPM/OLS/VFL/PFP Splitter features and improvements:

1. No changes

## Digital Fiber Inspection Scope improvements:

1. No changes

**Software version: 02.01.0002**

**March 11, 2025**

## Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.1.2  
CPLD version: 10

## OTDR features and improvements:

1. General Enhancement
  - a) Improved Wi-Fi / BT connection.
  - b) Updated French translation.
  - c) Fixed issue preventing screenshot capture.
2. File operations
  - a) No changes
3. OTDR features and improvements
  - a) Changed default threshold value for reflectance from -65 to -55 to avoid false reporting of reflective event type.
  - b) Fixed issue when loading saved result, the analysis thresholds do not always load correctly.
  - c) Improved general OTDR trace filtering and analysis performance especially on traces with high polarization noise.
  - d) Limited editing to built-in, custom Fiber Model setting profile.
  - e) Added new Auto Zoom Trace setting control (On/Off) in View Setup Menu - Zoom center for Trace plot (centered or Active marker).
  - f) Added new Event selection trace view response (Focus/Jump to event or Focus/Jump and zoom to event).
  - g) Added support for new in-service 1650F OTDR with macro bend detection capability.
  - h) Stopped adding same wavelength multiple times to the file name.
  - i) Fixed issues with autosaving of the wrong document.
4. JSON/Waldo mode
  - a) PTS: Added new PON Test Sheet (PTS) feature to Fiber Menu for both OTDR and PFP Power Application.
  - b) OTDR: Fiber ID is now visible on active test screen and LinkMap now WALDO fiber id on trace plot during measurement.
  - c) OTDR: Added new factory setup profile option - F2\_PON setup profile added and Push as default for WALDO mode.
  - d) PFP Power: Table/strands are now defaulted to 992 strands (max) with selection at 0. Selecting a PTS OPM terminal will open PFP Power and position to correct stand to measure; alternatively, user can manually select/overwrite results.



- e) PFP Power: Resolved issue whenever the CableID field is empty, the PFP Power saved results go to the wrong path.
  - f) PFP Power: Replaced “Clear” button with “Clear Cell” and now only selected cell is deleted.
  - g) PFP Power: After measurement “Start”, automatically go to selected start cell to measure.
5. V-Scout® and LinkMap changes
- a) Changed the text color in LinkMap comment ballon from grey to black.

### OPM/OLS/VFL/PFP Splitter features and improvements:

- 1. Fixed ORL B->A value issue in the OPM test report.

### Digital Fiber Inspection Scope improvements:

- 1. Improved user interface.
- 2. Added new results table in user interface and test report.

**Software version: 02.00.0001**

**August 21, 2024**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 4.1.0  
CPLD version: 10

### OTDR features and improvements:

- 1. General enhancements
  - a) Upgraded the User Interface to the latest v150 product design concept with large, square buttons.
  - b) Added the FLOW™ and QR code/NoApp® features.
  - c) Added 499-05-876 Bootup PIN Code System Lock software option.
  - d) Added ability to use PC keyboard entry when using web-browser.
  - e) Fixed issue with Customized Profile – CNT not displaying properly.
  - f) Updated Spanish and Chinese (Zh-CN) translations.
- 2. File operation and related enhancements
  - a) Added ability in OTDR mode to manually enter TechName and TechID unless sync'd with R-Server.
- 3. .json mode
  - a) No changes
- 4. OTDR measurement, Profile and Analysis Improvements
  - a) Factory profiles are no longer visible in the File Manager, only User Profiles are visible; any factory profiles uploaded from previous release must be manually deleted using File Manager and shown in green font.
  - b) When OTDR App is closed, the current settings will be saved into the Last Configuration profile; the next time the OTDR App is opened, it will load the Last Configuration settings.
  - c) Fixed OTDR App loading issue when the Application option tapped within 15-20 seconds of power up.
  - d) Centers/zooms on event selected in the Event table.
  - e) Tweaked Fiber Model labels and defaults.
  - f) Factory reset will restore OTDR to factory built-in profile settings.
  - g) Changed active trace selection icon from grey to green circular arrow.
  - h) When Load BA traces only, event #s will now begin table with #1 instead of reverse sequence.

### V-Scout changes and LinkMap improvements:

- 1. Fixed issue with no LinkMap being generated for some traces, even when .sor file is re-analyzed with new A.Thres values.
- 2. Improved LinkMap merged event P/F reporting; Total merged loss value is now divided by the # of merged events before applying P/F indicator.



### OPM/OLS/VFL/PFP Splitter features and improvements:

1. For OPM:
  - a) Created separate dB and dBm buttons on the right side of the screen,
  - b) Added 'Select All/Deselect All' checkbox on the Table tab,
  - c) Changed the 'Ref' button to 'Set Ref',
  - d) Modified Panel OPM zero instruction,
  - e) Fixed issue with Modulation setting display not locked to real value.
2. For OLS: Added ability to select laser wavelengths to use in the Loop mode.
3. For PFP:
  - a) Added the WL button on the left side of the screen,
  - b) Added Strand # so users can adjust for cabinet fiber capacity,
  - c) Added Test# on the left side in case users need to skip ports,
  - d) Added 'Load' button on the left side to allow users to repair fiber and resave test result,
  - e) Added a way to Resume current test or start a New one,
  - f) Changed sequence of instructions:
    - Close OPM dust cap, press 'Zero' (if provided meter has not been previously zeroed),
    - Clean and connect fiber between OPM and Splitter,
    - Press 'Start'-'>'New',
    - Press 'Acquire' to save each port reading,
    - When done testing, press 'Stop' and 'Save'.

### Digital Fiber Inspection Scope improvements:

1. Fixed bug with label on the right side not matching analysis parameters setting.

### Known Issue

1. Within initial 15 seconds of powering up, the unit will briefly display both the Fiber Menu and Utility Menu but not operable until final Fiber Menu or PIN request pages are displayed.
2. PFP Splitter and OPM QR codes are not supported yet by NoApp.
3. Using single PW to measure multi-spaced near-end events (25 feet apart) on a 62kft span can result in missed events and higher event loss.

**Software version: 01.07.0007**

**April 17, 2024**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 1.4.0  
CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Added ability to lock settings to prevent accidental changes.
  - b) Updated Spanish Translation.
  - c) Added BT pairing for VX-Connect App; customer can push json mode and GPS coordinates to saved files.
  - d) Added ability to support delta releases going forward.
2. File operation and related enhancements
  - a) Added ability to export/import PROFILE to/from USB stick.
  - b) Report Tab: Added option to save current view images, A/B marker position and 2-Point Loss value for multi-wavelengths and multi-pulses traces.
  - c) Added event indices to trace plot on test report.
  - d) Added small margins to zoomed trace view within the test report.
  - e) Fixed indexing issue when downloading results from Cloud.
3. .json mode
  - a) Fixed issue with OTDR App crashing when user added SPAN offset.

- b) Fixed issue with OTDR App crashing when attempting to save 500 feet cable with high-end reflection.
  - c) Changed JobID/CFAS label to JobID/CFAS/CLO on web browser and .json file.
  - d) Added Strand # to the OTDR Trace screen and LinkMap view.
  - e) Set F2 P/F threshold as default when PUSH with browser; user can still change P/F setting.
  - f) Prioritized WALDO AutoSaveParameters JobID over VX-Connect JobID.
  - g) Fixed PFP Splitter panel dimensions.
4. OTDR measurement and Analysis Improvements
- a) New feature - added ability for users to create/edit custom PROFILE with unique name.
  - b) Removed restrictions on P/F threshold limits for Splitters.
  - c) Increased the distance range from 160km to 320km for OTDR with SN prefix TAC or TNU.
  - d) Changed the Trace tab measurement length details to show the value of the last captured data point instead of acquisition range length.
  - e) Event Tab: Fixed wrong Loss value in expanded Trace screen view.
  - f) Organized Fiber Models by glass type to provide improved visibility to user of all options and require less scrolling.
  - g) Fixed the issue when 'Traffic detected' warning did not allow the OTDR measurement to be performed even if the traffic signal level falls below the threshold limit.
  - h) Show actual measurement resolution value in settings instead of Low, Medium, High.
  - i) Added new network selections for drop fiber testing: 'Splitter to ONT' and 'ONT to Splitter'.
  - j) Added a new ONT reflectance P/F threshold setting for 'Splitter to ONT' mode; LinkMap will show End icon with 'No ONT detected' message or an ONT icon if the end event reflectance value meets the threshold.
  - k) Made the SPAN Begin measurement more stable.
  - l) Adjusted the minimum input power level according to the optical configuration.
  - m) Fixed the App crash issue on units with SN prefix "TAC" and "TNU".
  - n) Improved the OPM measurement handling; removed the OPM measurement checkbox Setup on OTDRs without inline dual PONT option.
  - o) General measurement, filter and analysis improvements.

### V-Scout changes and LinkMap improvements:

- 1. Improved macro bend event reporting in LinkMap.
- 2. Fixed V-Scout warning dialog for new V-Scout profiles.
- 3. Improved PON/U trace analysis and LinkMap; added a new Claro V-Scout profile option.
- 4. Apply saved thresholds settings when rebuilding LinkMap instead of current displayed measurement parameters.
- 5. Added merged event splitter support.
- 6. Improved detection of link end with merged events, last event will have the end icon.

### OPM/OLS/VFL features and improvements:

- 1. No changes

### Digital Fiber Inspection Scope improvements:

- 1. The OTDR App will delay showing fiberscope connected message until the application is fully loaded; notification will only occur once per connection.
- 2. Moved settings from Capture tab to Setup tab - MPO mode, Auto Freeze, and Rects/Dots.
- 3. Removed Shake setting as it's no longer necessary due to improved analysis.
- 4. Updated, reorganized and improved labels in the Settings tab to consolidate related parameters; added the Reset button:
  - a) Added IEC 61300-3-35 edition 3.0 selection as a separate default setting rather than being included in Analysis Settings, reducing the number of required combinations; Fixed IEC V1/V2 details on the Capture screen,
  - b) Added Connector Type (Male, Female, MPO Female) and Connector Material settings,
  - c) Renamed Tip Type options for clarity and accuracy and filtered by selected Analysis Parameters and Connector Type settings,
  - d) Improved switching between connector polish types: PC, APC and MPO modes,
  - e) Fixed potential application crash,
  - f) Fixed the Auto Crop Focus feature,
  - g) Created a new scope report to support reduced IECv3 inspection parameters,



- h) Now always show FOV setting,
- i) Added Save button to access Save/Auto Save menu.

### Known Issue

1. For P2P spans > 150km, user must manually set test parameters.

**Software version: 01.05.0008**

**February 20, 2024**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 1.4.0  
CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Restored support of the external MPO switch; users must connect switch prior to opening the Fiber Menu to allow OTDR time to detect the connected switch.
  - b) Improved PDF test report table layout.
  - c) Improved Company information table details.
  - d) Improved Platform/module serial number/SW version details visibility using Fiberizer SW and within test report.
  - e) Updated Spanish translations.
  - f) Improved the initialization process for detecting the OTDR HW.
2. File operation and related enhancements
  - a) Added 'Save Current Measure Trace View' checkbox to Save (currently only supports 1PW testing) and includes loss measurement and A/B marker positions within test results and report.
  - b) Fixed Redundant version number in .pdf and .html test report.
  - c) Added Measurement parameter setup table to Trace Info details and test report.
  - d) Saves Test mode and Network mode setup details are used to capture test results in .sor file for later viewing.
  - e) Improved text in Trace info viewing window.
  - f) **OTDR .json mode**
    - i) Fixed issue with strand # lost when test application is closed; now remember the last tested strand.
    - ii) When using web browser with .json OTDR mode pushed to OTDR, the distance unit will initially be set to feet and 'Clean-up Trace List before Measurement' automatically be enabled; removed Clean-up from Display setup.
    - iii) Added Strand # button to allow user to change strand # locally prior to new test.
    - iv) Added Autosave Overwriting warning when in .json mode; if filename already exists, asks user if they wish to overwrite previously saved result with same filename.
    - v) Remember the last used autosave index value between application launches in .json mode.
    - vi) Changed Network label from 'P2P' to 'P2P/PON Drop fiber' when in WALDO mode.
3. OTDR measurement and Analysis Improvements
  - a) Fixed 1550nm index value for SMF-28e+ glass to 1.4679.
  - b) Added missing 'Cancel' buttons to some pop-up setup windows.
  - c) Fixed issue with connector labels in Setup displayed in wrong position (OTDR<->AUX) on some OTDRs/HW.
  - d) Deleted P/F threshold 'CBand BFS'.
  - e) Renamed P/F threshold 'CBand CONST' to 'CBand'.
  - f) Fixed pulse width display for values over 20 usec.
  - g) Improved Analysis, filter, and measurements including calculation of partially measurable events.

### V-Scout changes and LinkMap improvements:

1. Improved event loss calculation and synchronization with LinkMap values.



### OPM/OLS/VFL features and improvements:

1. Changed PFP default P/F threshold to -21 dBm.
2. Added support for 'special' PN Z66-00-061G OPM option +15 to -65dBm.

### Digital Fiber Inspection Scope improvements:

1. Fixed potential application crash.
2. Always analyze fiberscope images to avoid results with no analysis.
3. Fixed missing image analysis indication.
4. Improved Job information table (Fiberscope report).

**Software version: 01.04.0006**

**September 26, 2023**

### Release Scope:

Formal Release. General Availability  
Boot Rom version: 1.3.1  
CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Updated Spanish, zh\_Chinese translations.
  - b) Updated UI style guide to match new requirements for fonts and colors.
  - c) Fixed the issue with Connection Quality Check Save/Load.
  - d) Restored the Fiber model to SMF28e; customized SM and MM fiber models are now available.
  - e) JSON OTDR and JSON PFP OPM features:
    - i. Released new PFP Splitter test mode (POPM) to measure 1550nm levels at distribution cabinets and save all strands in single .html and .json PFP file. Users can select first and last strands for cabinet up to 864 strands and move back and forth between strands with same JobID and CableID.
    - ii. Users can select first strand # to be tested for cabinet JobID/CableID displaying 128 cells per OLT.
    - iii. Changed json mode labels in JobID/AccountID from PFP to **OPM** on the web browser.
    - iv. Changed P/F OPM default to -21dBm.
    - v. Technician can resume testing using Start/ Stop to finish previous test using the original file saved in the test set; Fit "Save Continuously" label.
    - vi. When technician uses the AccountID/JobID OTDR feature in the web-browser to push details to OTDR, the unit will save results automatically using pushed details; label changed from OK to Save; fixed potential crash when saving result; added new "Waldo..." right menu button in LinkMap view.
    - vii. Updated .json OTDR file format content; changed 'port' label to 'strand'; displays Length and P/F Status in the SaveResultDialog window.
    - viii. Added new "Tag" feature to .json OTDR test mode to allow users to view the list of failed (tests) strands previously 'tagged'.
    - ix. Restored missing right menu buttons in Trace View.
    - x. Improved handling of LinkMap span merged events.
2. File operation and related enhancement
  - a) Fixed the intermittent html/pdf report crash issue.
  - b) Ignores corrupt files during the Fiberizer Cloud upload process.
3. OTDR measurement and Analysis Improvements
  - a) Fixed network configuration type default load.

### V-Scout changes and LinkMap improvements

1. Changed 'Link Start' and 'Link End' labels to 'Fiber Begin' and 'Fiber End' in LinkMap.
2. Now displays Loss readings with two decimal places instead of one in LinkMap.

### OPM/OLS/VFL features and improvements:

1. Fixed the issue with OLS/OPM application not loading if BB-OPM hardware option was disabled.



## Digital Fiber Inspection Scope improvements:

1. Fixed DI-1000 crop mode issue and restored crop state.
2. Fixed DI-3000 resolution change issue.
3. Fixed MPO FOV visibility error.
4. Updated the Setup tab.
5. Changed "Tip type" labels to be more intuitive.
6. Fixed Live/Pause label on the Capture view.
7. Now shows Status under Analysis table.

## Known Issues:

- 1) When the 1310nm Auto Test selects a 120km distance range and high resolution it will use the wrong pulse width and display will show the wrong text.

**Software version: 01.02.0027**

**August 30, 2023**

## Release Scope:

Formal Release. Limited Availability  
Boot Rom version: 1.3.1  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) No changes
2. File operation and related enhancement
  - a) No changes
3. OTDR measurement and Analysis Improvements
  - a) Changed Res High value from 0.5m to 2.0m when distance range setting = 120km.

## V-Scout changes and LinkMap improvements

1. No changes

## OPM/OLS/VFL features and improvements:

1. Fixed issue where OLS/OPM application won't load if no BB-OPM hardware option is enabled.

## Digital Fiber Inspection Scope improvements:

1. No changes

## Known Issue:

1. When Distance Range is set to 120km and Resolution to High, the OTDR will display an error message. This software will provide a work-around to the issue by changing the resolution from 0.5 to 2.0 meters. The next General Availability release software will provide the actual SW fix.

**Software version: 01.02.0025**

**August 3, 2023**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.3.1  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) Updated the Spanish translation file.

- b) Changed font style used.
- c) Relocated the AutoSave setup button from the right-side menu to the main window next to the Span button.
- d) Initial release of json PFP mode in web browser; full feature release will come with next SW release.
- 2. File operation and related enhancement
  - a) Now ignores corrupt files while pushing files to the Cloud to avoid unit hanging up.
  - b) Added the Event threshold profile name to the OTDR test report.
- 3. OTDR measurement and Analysis Improvements
  - a) General measurement improvements.
  - b) Improved connection quality checking.
  - c) Fixed Reflection measurement value bug.
  - d) Updated Fiber Model setup list.
  - e) Improved Length selection availability and selection; users now have access to all units, but default depends on the region.
  - f) Now merged events tagged with “\*” can be viewed on event table; no need to double tap merged icon to view full details of merged events.
  - g) Improved P2P Auto Test parameters for spans >90km; for spans >110km user may need to do Manual setup.

### V-Scout changes and LinkMap improvements

- 1. V-Scout profile improvements: fixed label for PON and allow profile editing, cloning, renaming and deleting user profile.
- 2. PON demo file adjusted to display correct LinkMap upon initialization.
- 3. Improved LinkMap UI diagram.
- 4. Now shows V-Scout profile and measurement mode in Trace Information dialog window.

### OPM/OLS/VFL features and improvements:

- 1. No changes

### Digital Fiber Inspection Scope improvements:

- 1. Added brightness and contrast control to Live Capture View.
- 2. Added Field of View Pg 2 setup: Auto, Standard (DI-1000/DI-1000MPO), Wide (DI-1000L/DI-1000MPO+).
- 3. Improved handling of “Save” button.
- 4. Added Unique test result filename upon saving.
- 5. Updated German, Spanish, simplified Chinese translations.
- 6. Now Fiberscope application saves parameters before closing.
- 7. Removed Local/Remote Mode selection; the correct mode will be auto selected.

**Software version: 01.01.0034**

**February 24, 2023**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.3.1  
CPLD version: 10

### OTDR features and improvements:

- 1. General enhancements
  - a) No changes
- 2. File operation and related enhancement
  - a) No changes
- 3. OTDR measurement and Analysis Improvements
  - a) Added P/F threshold profiles to meet ISO/IEC 11801, ISO/IEC 14763-3, IEC 61280-4, G.6697/G.98x standards.
  - b) Added P/F Event thresholds name above the P/F table in the OTDR test report.
  - c) Added G.654 Corning TXF 2022 to fiber model setup list.



- d) Changed V-Scout Auto PON Drop to V-Scout PON ONT – Splitter and reduced distance range from 10km to 6km.
- e) Improved SPAN launch cable setup for dual  $\lambda$  testing.
- f) Improved OTDR Viewer BT Device connection cancelling issues.
- g) JSON – Increased download file limit to >2000 records.
- h) JSON – For dual  $\lambda$  tests, if any event not on both test results, use NULL instead of NA.
- i) JSON – Change text “LinkStart” to “Connector”.
- j) Fixed APP crash issue that occurred on some OTDRs after upgrading software.
- k) Improved trace analysis and filtering esp. for 100m fiber
- l) Fixed issue with Sample PON demo trace displaying wrong LinkMap
- m) All length units (m, km, feet, kfeet, miles) will display regardless of Global settings (metric or imperial)

### V-Scout changes and LinkMap improvements

- 1. No changes

### OPM/OLS/VFL features and improvements:

- 1. No changes

### Digital fiber inspection scope improvements:

- 1. No changes

**Software version: 01.01.0029**

**January 4, 2023**

### Release Scope:

Formal Release. General availability and mandatory **critical upgrade for OTDRs with SN prefixes TAC and TNU**

Boot Rom version: 1.3.1

CPLD version: 10

### OTDR features and improvements:

- 1. General enhancements
  - a) No changes
- 2. File operation and related enhancement
  - a) No changes
- 3. OTDR measurement and Analysis Improvements
  - a) Fixed issue that caused intermittent, erroneous Automode measurement results when testing short fibers for OTDRs with serial number prefix TAC and TNU.
  - b) Fixed issue with late reporting fiber end.

### V-Scout changes and LinkMap improvements

- 1. No changes

### OPM/OLS/VFL features and improvements:

- 1. No changes

### Digital fiber inspection scope improvements:

- 1. No changes

**Software version: 01.01.0026**

**October 25, 2022**

### Release Scope:

Formal Release. General availability

Boot Rom version: 1.2.3

CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Added support for new OTDR SN prefix TAC and TNU; added SN for PON tuned OTDRs with SN prefix TRF.
  - b) Added test report translation support for Spanish, Portuguese, Chinese (Simplified) and French; increased loss values to 3-decimal places.
  - c) OTDR Viewer Mode: Fixed initialization bug; improved messaging when no OPX is detected; hide “Cleanup Traces before Measurement” and “Setup Tab” in Viewer mode; default onto Results Tab”; keep Measurement Plan setting and sorting.
  - d) Changed label on operations from Abort to Cancel.
  - e) Implemented fan control with Rev D PCB.
  - f) Added pdf file when downloading result using web browser.
  - g) Added ‘SKIP’ fiber index feature to built-in web browser in JSON save mode.
2. File operation and related enhancement
  - a) Pushes the entire folder of saved results including LinkMap to Fiberizer Cloud.
  - b) Adds Platform and Module details into .sor file.
  - c) Improved report format and labels.
3. OTDR measurement and Analysis Improvements
  - a) Added new Advance PON support for PON optimized OTDRs only; non-PON OTDRs will not support Advance PON features. Improved Lmax, filter and analysis for PON spans.
    - Supports up to 3 balanced splitters.
    - Supports unbalanced splitters.
    - Supports Taps.
  - b) In PON/B or PON/U Network mode, Profile Setting is default to Manual PON allow user to specify test link details.
  - c) In PON/B or PON/U Network mode, EOF value is hardcoded to 20dB.
  - d) Added Real Time Refresh rate update setting Low vs. High (original) to get more smooth trace signature.
  - e) Increased microbend default threshold from 0.2 to 0.5dB and changed dB/km to unselected by default.
  - f) Increased P/F threshold values; added 3 new factory P/F settings: F2 PON, C-Band CONST and C-Band BFS.
  - g) Fixed negative number value format in test report.
  - h) Added setup to show Real Time button on right side menu.
  - i) Added user setting to choose which Tab to display upon completion of test.
  - j) Added support for OPX-MPO-12 switch to FiberMenu.
  - k) Added support for VConnect APP (internet access, RServer and auto enable GPS coordinates and save to .SOR using AutoSave or manual Save when paired). View GPS coordinates in Save setup Menu under Common tab.
    - Apple devices – Download VxConnect ver. 2.1.0 Build 61 or higher from VeEX APP site (turn on BT and HotSpot),
    - Android devices – Download VConnect from Google Play Store.

### V-Scout changes and LinkMap improvements

1. Fixed Auto VScout unit selection bug.
2. Fixed APP crashing when VScout is not enabled; when VScout icon is tapped, display message on Fiber Menu stating option not supported.
3. Improved event icons and merged event thresholds.
4. Improved V-Scout profile editing; removed redundant V-Scout test profiles.
5. Improved filters for PON and LinkMap analysis.

### OPM/OLS/VFL features and improvements:

1. Added support for 1490/1577nm in-line PON measurement.
2. Fixed OPM WID measurement issue and OPM crash when option not enabled.
3. Updated FX81 2WL tethered thresholds values.
4. Display VeEX product SN instead PCB SN.



## Digital fiber inspection scope improvements:

1. Short/long stem switched for old results.
2. Added DI-1000 MPO+/MPO selector option to support different FOV specifications.
3. Fiber image size decreased for DI-1000 MPO+.
4. Fixed P/F analysis threshold check.
5. Retain FiberScope settings for APP reloads.
6. Restored DI-3000 Freeze/Live button operation.

**Software version: 01.00.5014**

**June 23, 2022**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.2  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) JSON changes
    - Added new ReDO feature to overwrite existing fiber test results and save with new time stamp.
    - Added specific DWDM wavelength/CH# labels.

## V-Scout changes and improvements

1. No changes

## OPM/OLS/VFL features and improvements:

1. No changes

## Digital fiber inspection scope improvements:

1. No changes

**Software version: 01.00.5008**

**May 27, 2022**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.2  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) Added new Account/JobID fields to the web browser menu for the new JSON feature. No special characters are allowed in the fields.
  - b) Updated Simplified Chinese translation.
2. File operation and related enhancement
  - a) Added ability to save and download results in the JSON format with new AutoSave menu modified for JSON and the Reset button to revert to the normal OTDR AutoSave menu
3. Measurement and Analysis Improvements
  - a) Added new F2 PON pass/fail test profile

## OPM/OLS/VFL features and improvements:

1. No changes



### Digital fiber inspection scope improvements:

1. Added support for DI1000L fiberscope
2. Fixed different model scope jpeg backward compatibility issue
3. Improved DI-1000MPO+ image analysis
4. Fixed Fiberscope freeze/resume button

### Known Issues

1. When special characters are entered into the Account/Job ID field, although you get confirmation data is saved, it is not actually pushed onto OTDR Autosave menu. Solution - Don't use any special characters.

**Software version: 01.00.4997**

**February 7, 2022**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.1  
CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Changed network type from PTP to P2P
  - b) Fixed maintenance server related crash (sleep/wakeup)
  - c) Improved Report save time
  - d) Added Exit functionality to About view.
  - e) Removed redundant controls when using the OTDR Viewer and the About view
  - f) Improved the OTDR Viewer initialization message
  - g) Now shows filename (TraceID content) on OTDR Traces viewing display
  - h) Raised OTDR traffic detection level from -40 to -30dBm
  - i) Fixed OTDR overwriting error when upgrading remotely
2. File operation and related enhancement
  - a) Applied a new test report design: new font, added more user details, removed empty user defined fields
  - b) Fixed TRACE file saving time stamp to adapt for time zones and daylight saving
  - c) Changed autosave test # increment from Fiber ID to Trace ID
  - d) Fixed OTDR Auto save parameters dialog crash issue
3. Measurement and Analysis Improvements
  - a) Added OTDR Network type combo box annotations to settings
  - b) Adjusted OTDR Default event threshold values
  - c) Improved OTDR Analysis: PON and event splice recalculation tweaks
  - d) Redefined OTDR event thresholds' limits to be more realistic for current applications
  - e) Multi-wavelength testing, allow different PWs in auto settings to ensure end detection on very long fibers

### V-Scout changes and improvements

1. Added Sync Event table counter with LinkMap counter
2. LinkMap display is now available to all OTDRs. V-Scout test profile is still optional and required purchased option for PON OTDRs and recommended for all other OTDRs.
3. Fixed bug and re-instated including larger PW if required for high loss or very long fibers

### OPM/OLS/VFL features and improvements:

1. OPM wavelength set support
2. Adjusted OPM measurement dialog buttons
3. If supported, shows OLS 330Hz button; if not supported, hides button after OLS application is loaded.
4. Added FX80/81T tethering support for BB-OPM and PON mode; user should select mode using OPM



## Digital fiber inspection scope improvements:

1. Added test profile for LC/APC short, angled female tip
2. Added support for MPO16
3. Added saving test parameters (company, operator, etc.) and data to test report

## OX-MPO-12 improvements:

1. No change

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**Software version: 01.00.4976**

**October 29, 2021**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.0  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) Fixed the OTDR server crash
  - b) Added support for new receiver calibration parameters
2. File operation and related enhancement
  - a) No change
3. Measurement and Analysis Improvements
  - a) Improved Filter/Analysis performance
  - b) Improved zero-km measurement point
  - c) Improved LinkMap splitter detection
4. V-Scout changes and improvements
  - a) No change

## OPM/OLS/VFL features and improvements:

1. Fixed the OPM server crash

## Digital fiber inspection scope improvements:

1. No change

## OX-MPO-12 improvements:

1. No change

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**Software version: 01.00.4968**

**June 30, 2021**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.0  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) Added Italian language support to test set and result report
  - b) Updated Russian language
  - c) Fixed Splash screen
  - d) Moved About from tab to Setup menu button
  - e) Fixed FiberizerCloud upload issue and error message for OTDR, OPM, FiberScope



2. File operation and related enhancement
  - a) Added oxlts optional time support
  - b) Autosave labels changed
  - c) Fixed report trace grid display values
  - d) Updated report event table text/labels
  - e) Separated cumulative/total loss labels in report
  - f) Fixed report reflectance value format
3. Measurement and Analysis Improvements
  - a) Improved Filter/Analysis performance
  - b) Improved API "RefEventSCalculate" command
  - c) Improved zero-km measurement point
  - d) Improved Fiber Model list; updated Fiber model values for Corning SMF-28e Ultra, SMF-28e+, SMF-28-ULL glass
  - e) Don't indicate P/F thresholds on event table view; show P/F on LinkMap
  - f) Fixed tab/viewing issue bug
  - g) Improved low level filter/analysis measurement results
4. V-Scout changes and improvements
  - a) Improved LinkMap - automatic analysis: compare-no analysis, compare-with-analysis, added additional modify commands; other misc improvements
  - b) Add comment in Reflective Event LinkMap icon regarding merged events
  - c) In manual mode, if EOF > 30dB LinkMap analysis will now assume testing PON network
  - d) PON mode: if have merged event at end that shows high loss then change end icon to splitter even if can't accurately display patch cord after splitter.

### OPM/OLS/VFL features and improvements:

1. Remove OLTS tab for OS/OPM APP

### Digital fiber inspection scope improvements:

1. Improve Error dialog text
2. Added FiberScope switch support for DI-3000 to remote connect to via Wi-Fi
3. Update threshold table header
4. Add pdf report generation
5. Fix issue with showing wrong analysis parameters/tip on measurement results
6. Add portrait report orientation

### OX-MPO-12 improvements:

- 1) No change

**Software version: 01.00.4950**

**December 24, 2020**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.0  
CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Added Finnish translation
  - b) Improved Chinese, German and Spanish translations
  - c) Moved OTDR About as a button to the Setup screen
  - d) Now shows the Unlock & Time on unregistered units for R-Server status
2. File operation and related enhancement
  - a) No change

3. Measurement and Analysis Improvements
  - a) Improved color selection between tests to provide more contrast when viewing multiple traces
  - b) Improved ORL formatting in manual ORL mode
4. V-Scout changes and improvements
  - a) No change

### OPM/OLS/VFL features and improvements:

1. Resolved issue with VFL laser not turning off after closing test application
2. Improved OLS operation; corrected laser wavelength disappearance issue
3. Improved OPM to OTDR APP swapping

### Digital fiber inspection scope improvements:

1. Improved DI-3000 FiberScope operation for Wi-Fi and USB/wired (except MPO tip)
2. Improved MPO analysis, MPO OpenCV

### OX-MPO-12 improvements:

1. No change

### Known issues:

1. VFL fails if no OLS or OPM option is enabled.

**Software version: 01.00.4939**

**September 23, 2020**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.0  
CPLD version: 10

### OTDR features and improvements:

1. General enhancements
  - a) Activated HOME button to mirror HOME icon operation when in Fiber Test Mode
  - b) Added WiFi connection support to OTDR Viewer application for OPX-BOXe
  - c) Added features with R-Server support including:
    - i. Timebomb feature
    - ii. V-Connect application
  - d) Removed WiFi Insider from Advanced Menu
  - e) Corrected copyright and date/time on web homepage and VNC page
  - f) Corrected Upgrade messaging when language set to Chinese or Japanese
  - g) Updated zh\_CN (Mandarin) translation
2. File operation and related enhancement
  - a) No change
3. Measurement and Analysis Improvements
  - a) Resolved Realtime test trace compression issue when test stopped
  - b) Improved Trace Report including improved ORL calculation
  - c) Now users can apply analysis to results even if test stopped prematurely
  - d) Corrected issue with floating numbers which impacted some analysis results
4. V-Scout changes and improvements
  - a) No change

### OPM/OLS/VFL features and improvements:

1. Resolved issue with VFL laser not turning off after closing test application
2. When OPM is not enabled, tapping OPM will no longer open test application



## Digital fiber inspection scope improvements:

1. Updated FiberScope icons
2. Added DI-3000 FiberScope support for WiFi and USB/wired (except MPO tip)
3. Improved support for MPO analysis

## OX-MPO-12 improvements:

1. No change

**Software version: 01.00.4920**

**March 30, 2020**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.0  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) Resolved EZ Remote issue when set to Japanese
  - b) Added Web browser reboot feature
  - c) Added Display setting (antialiasing) to show trace view with thinner line
2. File operation and related enhancement
  - a) Restored demo sample trace files
  - b) Improved Trace list view
3. Measurement and Analysis Improvements
  - a) Updated OTDR image and now shows full zoom according to wavelength/pulse settings when new measurement started
  - b) Improved distance unit handling: now the pdf-report reflects the saved units and not defaults to km
  - c) Improved Measurement completion process; continuous improvement to analysis routines
4. V-Scout changes and improvements
  - a. No change

## OPM/OLS/OLTS features and improvements:

1. Fixed 'No device available' notification (i.e., OLS option not available, display message)

## Digital fiber inspection scope improvements:

1. No change

## OX-MPO-12 improvements:

1. No change

**Software version: 01.00.4912**

**February 4, 2020**

## Release Scope:

Formal Release. General availability  
Boot Rom version: 1.2.0  
CPLD version: 10

## OTDR features and improvements:

1. General enhancements
  - a) New Fiber Menu layout including EZ-OTDR, V-Scout Auto, Expert OTDR, and FiberScope
  - b) Bootup time to FiberMenu is <15 seconds; FiberMenu+OTDR APP < 30 seconds
  - c) Updated Japanese, Chinese and Spanish translations and adjusted label widths



- d) No device available notification fixed (i.e., OLS option not available, display message)
- 2. File operation and related enhancement
  - a) Added R-Server Registration and Advanced Management support.
  - b) Automatically replace special characters and spaces in filenames with underscore for RServer
  - c) Added new OTHER save fields for originating/terminating locations, comments, NodeID, Account, TechID and TechName
  - d) Added ability to save filtered .sor files for 3<sup>rd</sup> party view.
  - e) File save time reduced to  $\leq 2$  seconds for single .sor file
- 3. Measurement and Analysis Improvements
  - a) When available, 1550nm is the new factory default
  - b) Improved LMax (Distance Range) selection
  - c) Consolidated OTDR Setup into single page view; improved Fiber Model options; user can create setup profiles. The factory default is now Corning SMF28.
  - d) Improved Measurement completion process; continuous improvement to analysis routines
  - e) Optimized P/F thresholds
  - f) New bi-directional trace X view and event analysis added
  - g) Added Display setting button to Right-side menu; new support user defined grid spacing (fixed v. auto scale) and grid background color (Light v. Dark)
  - h) Improved consistency between ORL measurement values (Event table, manual measurement and LinkMap)
- 4. V-Scout changes and improvements
  - a) Improved LinkMap parameters association
  - b) Span Start/End icons no longer greyed out when Loss Excluded checked.
  - c) V-Scout tab label changed to LinkMap

### OPM/OLS/OLTS features and improvements:

- 1. Fixed OLS wavelength select issue
- 2. Improved OPM Zero
- 3. Improved VFL laser operation

### Digital fiber inspection scope improvements:

- 1. Added direct connect support for DI-2000/3000 Fiberscopes

### OX-MPO-12 improvements:

- 1. Added support for new OPX-MPO12 optical switch. Users must connect prior to opening OTDR APP.

**Software version: 01.00.4861**

**April 19, 2019**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.20  
CPLD version: 10

### OTDR features and improvements:

- 1. General enhancements
  - a) New bootrom ver. 1.1.20 and CPLD ver. 10
  - b) Support custom logos
  - c) Home button will take user to Utility menu
  - d) Home icon on touchscreen will take user to Fiber Menu
  - e) Improved Spanish translation
  - f) Added Japanese translation
- 2. File operation and related enhancement
  - a) Improved USB Export



- b) Added operator field to Save Menu
- 3. Measurement and Analysis Improvements
  - a) OTDR traffic detection trigger set at -40dBm
- 4. V-Scout changes and improvements
  - a) No change

#### OPM/OLS/OLTS features and improvements:

- 1. No change

#### Digital fiber inspection scope improvements:

- 1. Restored ability to use FiberScope APP even if no Scope detected.

**Software version: 01.00.4850**

**February 20, 2019**

#### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.19  
CPLD version: 10

#### OTDR features and improvements:

- 1. General enhancements
  - a) Improved EZRemote feature
  - b) Improved language support where multi-languages exist between platform and Application software
  - c) Improved platform communication with new FX150+ OTDR
- 2. File operation and related enhancement
  - a) No change
- 3. Measurement and Analysis Improvements
  - a) Added Realtime Automode and Realtime On-The Fly test modes
- 4. V-Scout changes and improvements
  - a) No change

#### OPM/OLS/OLTS features and improvements:

- 1. No change

#### Digital fiber inspection scope improvements:

- 1. Improved DI-1000 Crop feature Shake detection

**Software version: 01.00.4842**

**January 16, 2019**

#### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.16  
CPLD version: 10

#### OTDR features and improvements:

- 1. General enhancements
  - a) Added support for new FX150+ SN prefix
  - b) The bootup time to OTDR Start now is 1 minute; improved OTDR initialization
  - c) The software option list now shows V-Scout Link Mapper instead of FX300 VFL
- 2. File operation and related enhancements
  - a) Added the Operator field to Saved Files



- b) Improved the GPS detection
- c) Added HTML reports for the R-Server
- 3. Measurement and Analysis Improvements
  - a) Improved the Auto mode for FX150+ using short pulse and test time
  - b) Improved the Auto mode detection for short and very long fibers
  - c) Improved the EOF detection for non-reflective ends and multi-trace analysis LinkMap results
  - d) Added the Manual and Auto Real time test modes. The Manual RT supports on-the-fly parameter changes
- 4. V-Scout changes and improvements
  - a) Auto freeze now works even if Image center offset by up to 33%
  - b) Added the check box for re-analyzing when rebuilding LinkMap

### OPM/OLS/OLTS features and improvements:

- 1. Improved OPM result saving
- 2. Added the HTML report support for R-Server

### Digital fiber inspection scope improvements:

- 1. Improved the auto zoom after image is frozen
- 2. Added the crop option for APC images
- 3. Improved the LC/APC auto-freeze and pass/fail analysis
- 4. Improved the Auto freeze: centering and shake
- 5. Added the HTML report support for R-Server

**Software version: 01.00.4827**

**October 24, 2018**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.13  
CPLD version: 9

### OTDR features and improvements:

- 1. General enhancements
  - a) Added EZ-Remote client access feature
  - b) Improved the low battery operation. When the unit has a low battery (<10%), the warning message will now allow the user to exit the dialog and continue using the unit.
- 2. File operation and related enhancements
  - a) Now user can force TraceID # in Setup to change to a new number prior saving if sequential # increments not desired.
  - b) Flag when user create filenames with space or / (specialty characters) as it can disrupt test operations
- 3. Measurement and Analysis Improvements
  - a) Improved the Manual mode test timer when using MM OTDR.
  - b) Splices with Signal gain that exceed the threshold value will no longer be failed in the Event table or LinkMap
- 4. V-Scout changes and improvements
  - a) Redesignated OTDR V-Scout Profile setup screens

### OPM/OLS/OLTS features and improvements:

- 1. File operation and related enhancements
  - a) Updated OPM results will be put into OTDR results path when they are copied from the USB

### Digital fiber inspection scope improvements:

- 1. Improved Auto Freeze and Pass/Fail Analysis for LC/APC and E2000/APC. User can now specify the connector type: General, LC/APC or E2000
- 2. Added MPO Group Viewing/Capture Mode. No Pass/Fail Analysis.



### Known Issues:

1. For span > 80-90 km, 1310nm places EOF label by extrapolating slope to noise floor
2. FiberScope image files or oxlts files are not available for viewing and copying in Utilities>File>Saved. Must use the FiberScope or OPM Application Export USB feature to copy file to USB or push files to the Cloud.
3. Auto-Mode is not selecting correct PW at 1310nm for long fibers (>90km). Use Manual or V-Scout Profile
4. Home button does not do anything in OTDR mode

**Software version: 01.00.4759**

**July 3, 2018**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.11  
CPLD version: 8

### OTDR features and improvements:

1. General enhancements
  - a) Added 10 second delay between the platform software loading and opening OTDR application after powering up
2. File operation and related enhancements
  - a) No changes
3. Measurement and Analysis Improvements
  - a) Event with gain (negative loss) will no longer be categorized as a failed event
4. V-Scout changes and improvements
  - a) No changes

### OPM/OLS/OLTS features and improvements:

1. No changes

### Digital fiber inspection scope improvements:

1. No changes

### Known Issues:

1. Real-time mode defaults to Manual mode test settings even when Auto or VScout selected
2. For span > 80-90 km, 1310nm places EOF label by extrapolating slope to noise floor
3. When the splice gainer value exceeds the splice loss P/F threshold, it shows as a failure in the Event Table
4. FiberScope image files or oxlts files are not available for viewing and copying in Utilities>File>Saved. Must use the FiberScope Export USB instead in the application
5. For 1310nm long fibers (>90km) Auto-Mode is not selecting correct PW. Use Manual or VScout Profile
6. When No trace end is visible above the noise floor, EOF will often be found late. To maximize test range, need to optimize DR, increase PW & Test Time and use the low resolution.

**Software version: 01.00.0067**

**June 15, 2018**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.11  
CPLD version: 8

### OTDR features and improvements:

1. General enhancements
  - a) Improved the Cloud Setup dialog appearance
  - b) Updated the user manual

- c) Added the EZ-Remote feature support
- d) Updated the internal user manual
- 2. File operation and related enhancements
  - a) No changes
- 3. Measurement and Analysis Improvements
  - a) Improved the OTDR Span Begin/End setup
  - b) Improved the 2nd splitter PON event recovery, minimized dropout
  - c) Improved the splice detection on PON networks
  - d) Corrected the Leaf fiber IOR setup association G.652 to G.655
  - e) Added distance information to the vertical marker/cursor. Added cumulative loss at the marker position in the Event View
  - f) Corrected reported issue that unit can freeze up when attempting to zoom in
  - g) Now Span Begin/End settings automatically applied to all traces displayed in the viewing window
  - h) Improved the End of fiber event loss and the reflection handling by not including results into total span values
  - i) Added the scattering limit for reference events
  - j) Increased the event threshold from 20 to 30
  - k) Updated splitter threshold values and added support for 1x64, 1x128, 2x64 and 2x128 splitters
  - l) Improved analysis results when using the 190nsec Pulse
- 4. V-Scout changes and improvements
  - a) Improved Total Span ORL with LinkMap Total ORL results
  - b) Improved reporting of merged events from multiple spans in LinkMap
  - c) Improved LinkMap for the AutoPON test; updated splitter loss threshold values and added 1x64, 1x128, 2x64, 2x128 splitter support
  - d) LinkMap layout changed to incorporate icon messaging. Users must now select tab to display results for the current icon or the total span
  - e) Improved VScout analysis for 190nsec

### OPM/OLS/OLTS features and improvements:

- 1. Added the Pass/Fail threshold indication in oxlts files
- 2. Added support for RXT4111 Light source, option 499-05-806

### Digital fiber inspection scope improvements:

- 1. Added support for VS500 short/long stem and auto-detect for the installed stem
- 2. Improved auto-freeze and Pass/Fail analysis when using VS500 APC tips

### Known Issues:

- 1. Real-time mode defaults to Manual mode test settings even when Auto or VScout selected
- 2. For span > 80-90 km, 1310nm places EOF label by extrapolating slope to noise floor
- 3. When splice gainer value exceeds splice loss P/F threshold, event table shows it as a failure
- 4. Can't view FiberScope image files in Utilities>File>Saved. Must view and copy files using Scope APP Export USB
- 5. For 1310nm long fibers (>90km) Auto mode is not selecting correct PW. Use Manual or VScout Profile.
- 6. When No trace end is visible above the noise floor, EOF will often be found late. Optimize for DR, increase PW & test time and use low resolution to maximize test range.

**Software version: 01.00.0064**

**March 7, 2018**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.10  
CPLD version: 8

### OTDR features and improvements

- 1. General enhancements

- a) Improved Italian and Russian language support
  - b) New rootfs to stabilize Test application and disable Auto Reset
  - c) Aligned time zone settings
  - d) Improved WiFi connection; added 5G Wi-Fi/Bluetooth support
  - e) Changed VNC cursor prompt to 'x'
  - f) Improved USB exporter
  - g) Corrected intermittent Application reset
  - h) Added boot up Quick Guide image screens (Side button and Zoom introduction)
  - i) Added new language support: Chinese, Spanish, Portuguese and Polish
  - j) Home icon will load Fiber Test menu; Home button will load Utilities menu.
  - k) Now supports FX150 remote control and pdf file transfer via ReVeal FX300 ver. 1.0.5
  - l) Now supports the wireline Ethernet via OTG cable
2. File operation and related enhancements
    - a) Improved Bluetooth file transfer process
    - b) Added possibility to create pdf report by selecting saved .sor result files and applying 'pdf to USB' feature in Utilities>Files>Saved>pdf
3. Measurement and Analysis Improvements
    - a) Improved section length calculation when merged events involved
    - b) Improved auto analysis event detection (low splice, longer fiber, no end reflection)
    - c) Improved auto distance range detection for long fibers
    - d) Increased 1310nm auto PW when testing long fibers
    - e) Now can supports event detection or user entered length for SPAN Start/End. User can choose to include/exclude connector insertion loss
    - f) Improved Event Pass/Fail check for merged events. Merged Event will show highest Reflectance value
    - g) Added new IOR for AT&T fibers
    - h) The new Factory default settings
      - for Auto test mode: Not A PON with disabled Front Panel check
      - for multi-wavelength (1310/1550) options: 1550 wavelength testing
      - for P/F Analysis: splice=0.3dB, connector=0.75dB; Refl= -40dB; ORL = 28 dB
      - for event table: splice=0.1dB
  4. V-Scout changes and improvements
    - a) Improved section loss calculation and display section length in LinkMap
    - b) Now the end of fiber length measurement is displayed **BOLD** in LinkMap
    - c) Applied grey color to out-of-span events in event reports
    - d) Improved LinkMap Set SPAN setup. Still limited to Event, not Length entry.
    - e) When using VProfile it's required to select and save PW(s) before testing is allowed

### OPM/OLS/OLTS features and improvements

- 1) Added Pass/Fail threshold indication in oxlts files
- 2) Able to view oxlts files using Utilities>Files>Saved
- 3) Added further improvement to OLS Loop mode when operating with WaveID
- 4) Auto detecting if OPM is plugged in

### Digital fiber inspection scope improvements

1. Auto detecting if FiberScope plugged in
2. Allows access to FiberScope application to view saved results when FiberScope is not connected
3. Added the Fiberscope shortcut icon to right side menu
4. Added the big image/small image profile selection for new short round stem
5. User can now decide in Setup what to do when Capture button is pressed (Disabled, Save on Tap, Save on Autofreeze)
6. Added the Export USB command in the Scope Results tab



### Known Issues

1. Real-time mode defaults to Manual mode test settings even when Auto mode or VScout selected
2. For span > 80-90 km, 1310nm place EOF label by extrapolating slope to noise floor
3. When splice gainer value exceeds splice loss P/F threshold, event table shows this as a failure
4. Can't view FiberScope image files in Utilities>File>Saved. Must view and copy files using Scope APP Export USB.

**Software version: 01.00.0025**

**October 24, 2017**

### Release Scope:

Formal Release. General availability  
Boot Rom version: 1.1.7  
CPLD version: 8

### OTDR features and improvements:

1. General enhancements
2. Added ability to remove USB stick when operating in OTDR mode
3. Added Russian, Spanish and Portuguese language
4. Improved Kazakh and Turkish language
5. Updated FX150 user manual
6. Added ability to enable Software options in the field using Utilities>Settings>Software Option KEY CODE
7. Setup Screen parameter now matches distance units
8. File operation and related enhancements
9. Improved OPM file detection
10. Measurement and Analysis Improvements
11. Added ability for user to optimize test for: best deadzone, best dynamic range or Auto
12. Improved Short span end of fiber analysis detection
13. Improved end of fiber detection in noisy trace
14. Changed attenuation to read dB/km regardless of distance unit settings
15. Added Latency calculation in Event View and LinkMap view
16. Added ability to set span by length as well as marker
17. V-Scout changes and improvements
  - a) Out-of-span events are now included in LinkMap
  - b) General improvement of LinkMap Total Loss Calculation and now match Event Table results

### OPM/OLS/OLTS features and improvements:

1. Improved OLS LOOP mode which will automatically cycle through all available lasers on OLS test port.
2. New OPM server button available for remote control.

### Digital fiber inspection scope improvements:

1. Added support for new VS500 FiberScope with software support enabled inside probe
2. Changed FiberScope Save to match OTDR and OPM filenames format/structure
3. Added ability to interface FiberScope with Cloud
4. Expanded fiber non-centering allowance required for AutoFreeze & Pass/Fail operation

### Known Issues to addressed in future release:

1. Real-time mode defaults to Manual mode test settings even when Auto or VScout selected
2. When gain splice value exceeds splice loss P/F threshold, event table shows as failure erroneously
3. V-Scout View column labels remain in English when Spanish is selected.



Software version: 01.00.0022

July 24, 2017

**Release Scope:**

Formal Release. General availability

Boot Rom version: 1.1.5

CPLD version: 8

**OTDR features and improvements:**

1. General enhancements
  - a) Improved backlight auto brightness control and LCD touchscreen calibration
  - b) Improved Italian and Chinese character set Language support
  - c) Added Spanish, Portuguese, Kazakh and Turkish language support
2. File operation and related enhancements
  - a) Utilities>File>Saved pdf icon is now disabled. For pdf, users must use OTDR Settings Enable+Report
  - b) Added ability to PULL data from Fiberizer Cloud into test set from Results Tab view
  - c) Added ability to export all files directly to USB stick in VeEX tree or Flat format from Results Tab View
3. Measurement and Analysis Improvements
  - a) Improved LinkMap total length measurement and Total Loss measurement
  - b) Improved cascaded PON Auto test functions and splitter event detection and end detection for lower dynamic range OTDR models and increase measurement time to 60 seconds
  - c) Improved Automode End of Fiber detection if end resides near noise floor
  - d) Improved detection of splices located near the noise floor
  - e) Improved test time for PON
  - f) Added ability for users to exclude loss of internal G.657 fiber connector loss to test fiber and extrapolate scatter loss to 0 km for Total Span Loss value
  - g) Allow user to add max. connector loss to Total Span Loss value when excluding OTDR connector loss (this is used when test fiber is not G.657 fiber type or external launch fiber does not match test fiber type).
  - h) Improved PON auto analysis, splice detection between splitters and use additional trace capture if needed
    - i. 2xN splitter support added for Manual PON
    - ii. Added User defined Splitter loss threshold now in Test Setup Page 2 Analysis
    - iii. PON distance range limited to 25km and physical max length restricted to 20km
    - iv. Change PON short to PW = 25 nsec; no longer 3 nsec
  - i) For post-measurement threshold changes, user can edit trace using Traces>Information area to select trace and edit test settings. In Event tab>Modify initiates re-analyze to build new event table.
  - j) Added 1650nm and improve Index of Refraction selection
  - k) Improved Automode for fiber > 160km and PW>10000nsec
  - l) Enable/Disable Front Panel Connection check in all test modes (Manual, Auto and Vscout)
  - m) For SM fiber, set min dB/km = 0.17
  - n) Improved 0km position for APC front panel connection
  - o) Realtime (Live) mode trace stabilized, less fluctuation
  - p) Added ability to select predefined Index of Refraction/Scatter Co-efficient or Custom User value
  - q) Improved End of Fiber detection when last section has higher Scatter coefficient
  - r) Improved Link map total length measurement and Total Loss measurement
  - s) Added ability for automode to use different pulse for 1310nm than 1550nm for long fiber spans.
4. V-Scout changes and improvements
  - a) Improved APC connector loss/reflectance/detection on LinkMap
  - b) Improved PON splitter type, loss calculation and linkmap association
  - c) Manual PON splitter ratio drives linkmap icon
  - d) Improved Span length measurement when last event is merged
  - e) Improved LinkMap high splice loss measurement
  - f) Generate linkmap option added
  - g) Added ability to edit icons and rebuild Vscout report



- h) Added comments regarding span issues.
- i) Support up to 3 acquisitions/wavelength if needed in V-Scout
- j) Added 2xN splitter icons

### OPM/OLS/OLTS features and improvements:

1. New Loop mode added
2. OLTS Wizard GUI added

### Digital fiber inspection scope improvements:

1. Added support for VS900 Fiberscopes

### Known Issues to addressed in future release:

1. Real-time mode defaults to Manual mode settings
2. When distance units set to kilofeet or feet, settings are still in km
3. When distance units set to kilofeet or feet, event table section attenuation not retaining dB/km units
4. When gain splice value exceeds splice loss P/F threshold, event table shows as failure erroneously
5. Export from OTDR APP requires user to select actual folder that contains .sor+pdf files.

**Software version: 01.00.0259**

**February 14, 2017**

### Release Scope:

Boot Rom version: 1.0.7  
CPLD version: 6  
Formal Release. General availability.

### OTDR features and improvements:

1. General enhancements
  - a) Added Chinese language support
  - b) Improved Russian language translation
  - c) Improved Bluetooth connectivity and performance
2. File operation and related enhancements
  - a) Added TraceID field content to .SOR and .PDF filename
  - b) Uploading OTDR test results to Fiberizer Cloud implemented
3. Measurement and analysis improvements
  - a) Improved Automode PW selection for lower dynamic range OTDR models
  - b) Improved cascaded PON Auto test functions and splitter event detection and end detection for lower dynamic range OTDR models and increase measurement time to 60 seconds
  - c) Limited Max PON fiber distance range setting to 25 km
  - d) Limited Max PON fiber span to 20 km
  - e) Improved Automode for 100+ km fiberspans
  - f) Improved End of Fiber detection on noisy traces
  - g) Support up to 3 acquisitions/wavelength if needed in V-Scout
  - h) Added 1650nm P/F thresholds and Refractive Index
4. V-Scout changes and improvements
  - a) Miscellaneous improvement to link map

### OPM/OLS/OLTS features and improvements:

1. Improved Relative Power (dBm) refresh updates
2. Save/Open VeEX\*.oxlts file format implemented
3. Results table for OPM measurement added
4. Job/Cable/Fiber ID added for saving results
5. Uploading of test results to Fiberizer Cloud implemented
6. Open existing measurement file to add more measurements



**Digital fiber inspection scope improvements:**

1. Enabled Profile Activate button
2. Added support for VS500 and new DI-1000 product ID
3. Improved centering detection

**Software version: 01.00.10**

**December 16, 2016**

**Release Scope:**

Boot Rom version: 1.0.6

CPLD version: 6

Formal Release. Commercial Release and General Availability.

### References

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#### Updating the Test Set Software

To download the latest software version available, go to <https://www.veexinc.com/support/software>, enter the first four characters of the test set's serial number (e.g., TAC0) and use the links to download the software packages and Release Notes to the PC. Unzip the file to obtain the Software Image file (i.e., [fx150-veex-arm.tar.gz](#)). The test set must always be connected to the AC/DC charger during the entire upgrade process. DO NOT turn it off at any time; the update process will take several minutes. To verify the software version number installed, turn the test set back on, open the [Utilities](#) section, select [Settings](#), and open [About](#). You may also use Web Remote Access to get the information.

#### Using a FAT32 micro-B USB memory stick or FAT32 USB-A Memory Stick with an OTG adapter

Make sure the test set can detect the memory stick, before starting this procedure.

- Turn the test set's power OFF.
- Copy the Software Image file to the root of the memory stick.
- Plug it into the test set micro USB-B port or into the USB-A to micro-B USB OTG adapter.
- [Option A](#): For a clean install (reset all settings and clear internal storage), turn the test set ON, by pressing the [SAVE+POWER](#) buttons simultaneously, until a tone (beep) is heard and wait for the bootup process to finish.
- [Option B](#): To preserve some existing settings and data, turn the test set ON, by pressing the [POWER+HOME](#) buttons simultaneously, until a tone (beep) is heard and wait for the bootup process to finish.
- The firmware update process starts. This will take several minutes. The test set will reboot itself at the end of the process.

#### Updating the Test Set Software via Wi-Fi or LAN

Make sure the test set is ON and connected to Wi-Fi, or to a LAN using the micro-B USB-RJ45 adapter cable.

PCs, Mac, tablets, and smartphones can be used to perform this task if they provide access to the file system and allow you to select the install package file.

- Using your PC or mobile device open a Web Browser and enter the IP address of the VeEX test set into the browser's address/search field (e.g., 10.0.20.1). The test set's IP address is displayed at the bottom-left corner of the screen.
- Once the test sets Web Remote Access page loads, select [Upgrade](#) from the menu on the left side of the screen.
- Tap or click on the [Select File](#) button and point it to the Software Image file.
- Tap or click on the [Upload](#) button to transfer the Software Image file to the test set.
- Once the file transfer is done, tap or click on [Upgrade](#) and let the test set go through the process, uninterrupted. This will take a few minutes. The test set will reboot itself at the end.

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