



# Software Release Notes

## OneAdvisor 800A

### Fiber Optic Applications

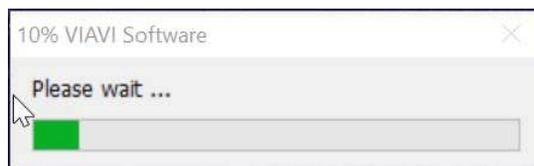
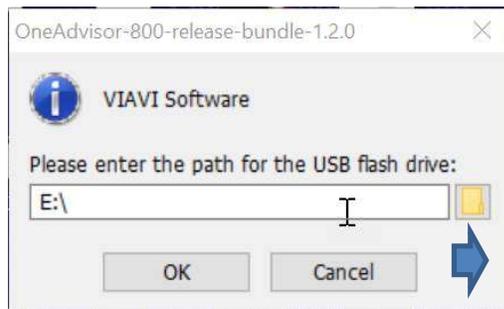
## General Information

### About this Document

This document provides OneAdvisor 800A firmware version numbers, a description of new features, and a list of unresolved issues associated with this release, unless otherwise specified.

### Installation Instructions

- Visit the website below to download the latest firmware. Firmware file has \*.exe extension which is self-extractable file.  
<http://ona-800.updatemyunit.net>
- Attached a USB memory device into your computer of at least 1GHz of space available (maximum USB capacity is 32B, and formatted as FAT32)
- Run the downloaded firmware file and when prompted select the drive that corresponds to the USB memory device. When completed all the firmware source files will be extracted in the USB root under a folder name "ale".



- Connect AC/DC power adapter into the OneAdvisor 800
- Insert the USB memory device into the USB port located on the top of the OneAdvisor 800.
- In OneAdvisor 800 Home Page select: {System}, {Upgrade}, {USB}, {Start Upgrade}:



- The upgrade progress will start and might take 10 minutes to 30 minutes. At the end of the upgrade process the OneAdvisor 800 will reboot to complete the upgrade.
- For more information, refer to OneAdvisor 800 User`s Guide.



# OneAdvisor 800A Fiber Optic Applications

## Latest version

Version ID: 26.1.2

Release date: 2026/03/23

Application	Date	Version
Mainframe	2026/03/17	26.0.4
Fiber Optics	2026/03/16	26.1.2

## General

### Corrections / Enhancements

- UI settings: “Go to classic setup” function removed, only the new UI is now available
- Help page: new QR code with a direct link to VIAVI Mobile Tech App documentation
- Multi-module management: compatibility matrix between E4146A and 41xxB or 41xxC OTDR modules updated

## OTDR

### Corrections

- FTTH-SLM: FO-1114 pop -up message updated

## FiberComplete PRO / FiberComplete

### New Features

- “High Resolution Acquisition” now available with any TrueBIDIR SW Option. (“TrueBIDIR” Measurement Sequence must be set with “Manual” Test Mode. ) TrueBIDIR with High Res. Acquisition adds short pulse measurements from each direction to detect closely spaced events and automatically correct long pulse events threshold. Enables “Sum of Events Loss per Distance- calculation with pass/fail analysis settings. Function active as well with an automatic switch sequence (from 12 ports to 192 ports)

## Multi Fiber MPO Switches (for FCOMP PRO apps)

### New Features

- Cable view result pages: new “- -” icon displayed. It indicates tests could not be performed due to missing continuity (fiber cut or cross-connected fiber). In this case, no results are displayed and .fcpro file results are empty.

## CD/ PMD/ AP (ONA 800 only)

### New Features

- Now available: Max. PMD Coeff., Min. and Max. CD Disp. Coeff @ 1550 nm

## TPA (Test Process Automation)

### Corrections/ New Features



- StrataSync: synchronization issue with configuration files re-saved under identical names resolved
- StrataSync/ OTDR Test type Template: new configuration locking feature
- StrataSync/ FCOMP PRO Test type Template: Locking feature mechanism wrongly locking all settings (only for specific configurations), now corrected



## Previous versions history

**Version ID:** 25.6.8

**Release date:** 2026/02/17

Hardware	Version	Build
Mainframe	26.0.3	2026/01/30
Fiber Optics	25.6.8	2026/02/17

### **FiberComplete PRO / FiberComplete**

#### Corrections

- Improved Time-of-Flight length measurement stability by fixing a random error that could appear after prolonged continuous use.



**Version ID:** 25.6.6

**Release date:** 2025/12/09

Hardware	Version	Build
Mainframe	25.2.6	2025/12/03
Fiber Optics	25.6.6	2025/12/03

## General

### Corrections / Enhancement

- PDF Report: Fixed random bug causing missing customer logo on the first page.
- Files Saving: Fixed issue where disconnecting USB created a fake “usbflash” folder treated as a drive.
- Translations updated in Chinese, French, German, Italian, Portuguese, Japanese, Spanish

## OTDR

### Corrections/ Enhancements

- ExpertOTDR: UI settings/ Added contextual help messages for “Test Mode” in Acquisition Page.
- ExpertOTDR/PON: UI settings / Modified “Link” Settings menu for consistency with FTTH-SLM.
- ExpertOTDR: Missing Launch Cable or Receive Cable event causing incorrect total loss random bug now fixed.
- FTTH-SLM:
  - Settings: UI settings / Mux/Demux Alarms removed.
  - Unbalanced Taps: Fixed incorrect Pass/Fail thresholds in PDF report.
  - Unbalanced Taps: Fixed issue where End of Fiber was misplaced.

## FiberComplete PRO / FiberComplete

### Corrections/ New Features

- UI settings: Added Contextual help messages for “Test Mode” in Acquisition Page, legacy “Table view” moved from Advanced page to Files page, miscellaneous commands & labels wording and warning message updates.
- TrueBIDIR SW option:
  - analysis get now an enhanced management if conditions prevent correct bidirectional analysis: warning pop up message, no results in IL/ORL or SLM view, .sor & .fcpro files saved, .pdf / .json reports without bidir. Analysis.
  - fiber end management issue now corrected.
  - .pdf report: wrong instrument information in case of multiple modules installed on same platform now corrected.
- Loopback SW option: on board UI wizard in process page updated. (now aligned with user manual revision).
- .pdf report: Fixed issue when OTDR trace cursors remained in PDF report even if hidden on instrument.

## Multi Fiber MPO Switches (for FCOMP PRO apps)

- UI settings/ UX:
  - IL/ORL bidir test sequence disabled if High capacity ext. switches activated with FiberComplete HW modules.
  - New dedicated Switch page, includes:
    - Remote Unit search: now with new “User” Port management (the user sets his specific connectivity port, allowing an identified, fixed and fast instruments pairing) .
    - Fiber Map; now with new “User” Range management (user ports range displayed in white in Fiber Map).
    - Switch Page shortcut in Process view.
  - Process view/page: now connectivity ports on local /remote are displayed.
- Fiber Map in Process Page:
  - now enabled up to 192 ports (incl. High Capacity Ext. Switches).
  - Enhanced Principle: “fast + advanced mapping” allows to perform a continuity check before launching any bidirectional test sequence, identifying fibers/ ports discontinuity (yellow color code) and cross connected fibers/ ports (red color code). Cross connections are identified based on the estimated polarity.
  - New STOP function added (stop gets enabled after fast mapping performed).
  - Scrolling from 1 up to 192 ports is enabled for convenient analysis.
  - Safety: soft keys in FCOMP PRO and Expert OTDR apps get disabled during the Fiber Map testing.
- Automatic switch sequence management:
  - Multi fiber project (MPO type) automatic switch sequence now enabled up to 192 ports (incl. High Capacity Ext. Switches).
  - Time saving: any fiber with port discontinuity/ cross connection will be skipped from test. Circle icon gets displayed in fiber/label in Cable view, file .fcpro is generated and saved with no results, port number is indicated.
  - Time saving: Set up transfer only sent once (for 1<sup>st</sup> fiber/port) within a switch sequence.
  - Safety: soft keys in FCOMP PRO and Expert OTDR apps get disabled during the switch testing sequence.
- .pdf reports:
  - now include remote unit switch type and serial number.
  - Multifiber project with MPO connectors: results table in summary. pdf report now includes port number (1 to 12) for each MPO connectors label.

## Cable-SLM Project Management

- UX: Cable view: “Wheel” Icon displayed while test been performed.



- Projects results files and project status information automatically restored in case of hard reboot.
- At project closing, UI settings are retained instead of default settings configuration, incl. results files and reports settings.
- Regression issue corrected: label list selection automatically roots to Project directory.
- Security enhanced in case of multiple projects opened on Expert OTDR and FCOMP PRO apps and on local/ remote units , before launching a test sequence.

#### **CD/ PMD/ AP (ONA 800 only)**

- New TPA Job test management for CD, PMD and AP measurements
- Configuration files for the CD, PMD and AP functions now managed by StrataSync

#### **OSA/OCV**

- Easier switching between nm and THz.
- WDM-Expert SW option: Added ability to configure and sort OSA results table, DWDM ITU-T channel names and composite power in PDF report.



**Version ID: 25.4.16**

**Release date: 2025-09-10**

Hardware	Version	Build
Mainframe	25.1.0	2025/09/10
Fiber Optics	25.4.16	2025/09/05

## **OTDR**

### Enhancements / Corrections

- OTDR Advanced settings: IOR range now from [1.00000 to 1.70000] ], Backscatter Coefficient range now from [-150.0 to -50.0]
- Various optimizations and fixes in PON and P2P applications improving noise management, events detection / analysis and events conflict management

## **FiberComplete PRO / FiberComplete**

### Enhancements / Corrections

- Loopback bidirectional OTDR analysis: “loopback cable” detection enhanced
- TrueBIDIR bidirectional OTDR analysis: various optimizations for improved management of launch cable, receive cable, grouped events and fiber end events
- Fixed random blank/ incorrect values during bidirectional IL/ORL measurements in CW mode
- Pass/fail alarms on json reports: global alarm incorrect status fixed
- Random system freeze with FiberComplete PRO jobs fixed
- 41xx FiberComplete modules: Set-up transfer now correctly handles different lasers range between Local & Remote units
- Auto save management now secured for FiberComplete /Optical Dispersion modules paired with FiberComplete /Optical Broadband source modules

## Previous versions history

**Version ID: 25.4.9**

**Release date: 2025-07-21**

Hardware	Version	Build
Mainframe	25.1.0	2025/05/13
Fiber Optics	25.4.9	2025/07/21

### All Applications

- New Settings menu user interface translations now updated in Chinese, French, German, Italian, Japanese, Portuguese and Spanish.
- Incorrect modules incompatibility warning messages removed for 4146A modules with 4106A and 4136A modules, 8136D with OSA-110R modules).

### OTDR

#### Corrections/ Enhancements

- ExpertOTDR: “SmartAcq+” acquisition mode is now set by default after SW upgrade, instead of “Auto” mode. “SmartAcq+” automatically sequences multiple pulse widths acquisitions to enhance the detection of all fiber link elements. It generates a consolidated results table and displays a single OTDR trace that seamlessly combines all utilized pulse widths. csor files (merged traces) are automatically saved at test completion. This mode is not recommended for bi-directional testing.
- Miscellaneous measurement enhancements in Point to Point and PON configurations.

### FiberComplete PRO / FiberComplete

#### Corrections/ Enhancements

- Side by side reference: regression bug preventing the last measurement step now corrected.
- False event no longer generated after a very high reflective event.

### Cable-SLM / Multi Fiber MPO Switches (for ExpertOTDR & FCOMP PRO apps)

#### Corrections/ Enhancements

- Launch and Receive Cables length measurement function now disabled in FCOMP/ FCOMP PRO app when a MPO switch is activated. Workaround: measure Test cable length in Expert OTDR (pre- select switch port number) before activating FCOMP app. After performing an automatic switch sequence/ closing/ reopening a project, the project page gets now correctly repopulated.
- After performing an automatic switch sequence/ closing/ reopening a project, the project page gets correctly repopulated.



## Previous versions history

Version ID : 25.4.7

Release date : 2025-07-02

Hardware	Version	Build
Mainframe	25.1.0	2025/05/13
Fiber Optics	25.4.7	2025/07/01

### All applications

- Wrong modules incompatibility warning messages for certain combinations removed
- Wrong modules incompatibility warning messages for certain combinations removed (4146A OTDR module with 41XXB FCOMP module)

### OTDR

#### Corrections/ Enhancements

- Reduces false splice detections on the fiber link, launch & receive cables
- Reduces false elements detection in the noise
- Enhances fiber end detection for highly reflective fiber ends
- Resolves occasional acquisition time slow-down
- PON: Corrects random incorrectly labeled detected elements
- E41xxC OTDR Module: incorrect "Live signal detected" warning message now fixed
- E81165C OTDR module now operating on ONA-800A platform

### FiberComplete PRO / FiberComplete

#### Corrections/ Enhancements

- .fcpro file reloaded on instrument now correctly populates Expert OTDR settings
- Average splice loss / link calculation & alarms management miscellaneous corrections implemented
- Link Loss measurement Alarms management results display modifications if negative or 0 loss use cases
- High-capacity switches with port # >48 + FCOMP PRO communication issue corrected
- Events detected within Launch Cables or Receive Cables no longer have the alarm thresholds triggered  
Tap actions on Event icons (SmartLink Tab) now restored with # of Acq. >1 in Auto Test mode
- Alarms thresholds no longer applied in events within LC /RC section (= Expert OTDR)
- Generic configuration files updated



## Previous versions history

Version ID : 25.1.18

Release date : 2025-03-12

Hardware	Version	Build
Mainframe	24.3.2	2025/02/15
Fiber Optics	25.1.18	2025/03/12

### All Apps

#### Corrections

- Bug fix - specific use case (Splice very close to a Gainer leading to false positive splice)

### FTTH-SLM App

#### Corrections

- Combo OTDR/ PM softkey reactivated on instrument

### FiberComplete PRO (Bidir. OTDR) / FiberComplete (Bidir. IL/ORL + OTDR)

#### Corrections

- Bug fix - specific TrueBIDIR use case (Event very close to Receive cable leading to wrong Receive Cable positioning)

### Microscope App

- Bug fix: Microscope app enabled again when P5000i connected on instrument after ONA800 powered up.



## Previous versions history

Version ID : 25.1.15

Release date : 2025-02-20

Hardware	Version	Build
Mainframe	24.3.2	2025/02/15
Fiber Optics	25.1.15	2025/02/20

### New Product Support

- New 4100 C FiberComplete module: up to 45dB dynamic range/ 200 km range

### All Apps

#### New Features / Enhancements

- New Settings menu user interface for a faster and smoother experience. For ExpertOTDR, FTTH-SLM, FiberComplete / FiberComplete PRO, PowerMeter /Source (LTS), CD/PMD/AP apps
- Obsolete modules: Software upgrade is now automatically disabled, and an information message is displayed
- Compatibility management for module combinations is now enabled, with a warning message displayed if any incompatibility is detected

### OTDR

#### New Features

- ExpertOTDR: New Smarta+ test mode for an enhanced automatic multi-pulse acquisition for Point-To-Point links
- Splices event detection enhanced algorithm
- PON measurement enhancements and bug fixes for improved accuracy and reliability.

#### Enhancements

- Singlemode / Multimode 4100A series Module:
  - Now possible to select between Auto & High Resolution OTDR settings (short pulses)
  - Fan no longer runs permanently, reducing noise
  - Updated TIA alarms thresholds

### **FiberComplete PRO** (with TrueBIDIR SW option & 4100 A, B, C & 4100 B FCOMP modules) / **FiberComplete** (4100 BFCOMP modules)

#### Enhancements

- Enhanced Datalink communication management
- Loopback SW : warning messages adapted & translated
- Cursors setting now saved within the configuration file



## **Cable-SLM / Multi Fiber MPO Switches** (OTDR & FCOMP PRO apps)

### Enhancements

- Switch- no switch with TrueBIDIR SW option use case now enabled
- Switch management with TrueBIDIR SW option + high-capacity external switch use case: Full scan disabled
- Multiple bug fixes including regressions



## Previous versions history

Version ID : 24.4.21

Release date : 20/12/2024

Hardware	Version	Build
Mainframe	24.2.3	29/10/2024
Fiber Optics	24.4.21	18/12/2024

**FiberComplete PRO** (with TrueBIDIR SW option & 4100 A, B, C & 4100 B FCOMP modules) / FiberComplete (4100 BFCOMP modules)

### Enhancements

- Referencing: “Factory” references now become “Default” references. Default references should only be used for demonstrations, training or specific use cases when side by side or Loopback referencing is not possible. Report to user manual for details.
- Referencing : 0 ORL results in Side by side or Loopback, with green/orange/ red color status . Thresholds for the color status have been revised to adapt to all test cables length.
- TrueBIDIR with AUTO OTDR Acq. Mode: warning message now displayed in case of auto pulse AB different from auto pulse BA (due to test connector port high loss on one side)

### Corrections

- Hardware integrity secured in case of hard reset + SW specific failure

**Cable-SLM / Multi Fiber MPO Switches** (OTDR & FCOMP PRO apps)

### Corrections

- Cable-SLM project / Bingo card: Start fiber # random issue now fixed

### New Features/ Enhancements

- Cable-SLM project with no alarms (no color pass/fail status) : new icon (round circle) now displayed in the case/ label to indicate that a test has been performed.

### **TPA / Mobile Tech App**

- Optical power tests can now be added to TPA Jobs and deployed

Combo PM/OTDR feature can be managed from TPA Jobs



## Previous versions history

Version ID : 24.4.14

Release date : 23/09/2024

Hardware	Version	Build
Mainframe	24.2.2	06 Sep 2024
Fiber Optics	24.4.14	23 Sep 2024

### All Apps

#### New Features / Enhancements

- File naming now supports up to 120 characters

### Power Meter

#### New Features / Enhancements

- 1577nm now available in the pre-set menu
- User Interface/User Experience:
  - Loss/Power: Enhanced readability with a larger font size
  - General softkeys: Resized to provide a better readability and accessibility

### OTDR

#### New Features / Enhancements

- User Interface:
  - OTDR trace cursors: new left and right softkeys to allow more precise cursor movement for improved navigation and accuracy.
  - OTDR trace cursor values: Enhanced readability with a larger font size
  - OTDR zoom function: A long press on 'A' provides the ability to independently zoom horizontally or vertically.
  - General softkeys: Resized to provide a better readability and accessibility
- Minimum Launch cable length measurement margins adjusted to avoid inappropriate warning message
- Expert-OTDR: [Real time] function is removed from the setup menu. It remains accessible via the general softkeys (direct access).

#### Corrections

- Link ORL missing @1550nm bug fixed
- FTTH-SLM: Launch cable connected directly to splitter: incorrect management fixed
- FTTH-SLM Base: missed 1x8 splitter bug fixed
- FTTH-SLM: PON topology with direct or short distance between the splitter connection and the receive cable, now correctly managed

### **FiberComplete PRO (with TrueBIDIR SW option & 4100 A, B, C & 4100 B FCOMP modules) / FiberComplete (4100 BFCOMP modules)**

#### New Features / Enhancements

- New alarms:
  - In [IL/ORL alarms] set up section: new [Link Loss min.]



- New [Length Alarms] min /max
- In [OTDR Alarms] :
  - New [Launch cable Min] and [Receive cable Min.] length
  - New [Average splice loss/ link] (only if TrueBIDIR is set up)
- IL/ORL Reference process enhancement with a new “Test cords verification step”: measurement & result with Reference grade jumpers now implemented with additional user guidance
- Lock markers function fully enable with TrueBIDIR acquisitions
- Json reports files rationalization: a single JSON file is generated including all set up & results information whatever the test sequence (IL/ORL, IL/ORL + OTDR, TrueBIDIR)

### Corrections

- Real Time OTDR now reactivated with Loopback OTDR acquisition set up in FComp PRO app

## **Cable-SLM / MultiFiber MPO Switches**

### Corrections

- 4100 BFCOMP modules + automatic switch sequence: regression issue from 24.2.7 SW version now corrected
- Switch port number, switch catalog number and serial number now listed in the instrument’s reports (.pdf, .json)
- CableSLM Regression issue with incorrect file naming management now corrected
- CableSLM Regression issue (when project remained opened when the mainframe is switched off) with files saved not in the project directory now corrected

## **TPA**

### New Features/ Enhancements

- New JSON versions:
  - FCompPro test type: 2.0.1
  - OTDR test type: 1.6.1
  - Inspection test type: 1.3.3
- FCompPRO Test Plan:
  - Locking function now enabled with [instrument config locked] set to True: lock all Alarms, Link description and Report fields when job activated
  - All new FiberComplete PRO alarms now available
  - [Sequence Pattern]: select which fiber(s) out of a batch of 12 will run an OTDR acquisition in addition to IL/ORL measurement
- Configuration file with hybrid FCOMP/Expert OTDR set up: now correctly managed with Job (TPA) sequence

### Corrections

- Regression issue with StrataSync metadata attributes to binary (SOR) files now corrected
- Remote display support in VIAMI Mobile Tech App (VMT) in local mode now available
- OTDR job now can now manage manual switch port allocation with OTDR job (through API or StrataSync template with label list import) (with next TPA version update)



## Previous versions history

Version ID : 242310

Release date : June 03, 2024

Hardware	Version	Build
Mainframe	24.1.1	03 May 2024
Fiber Optics	24.2.7	03 June 2024

### Mainframe

#### New Features / Improvements

- Support ONA800 new platform software version.

### OTDR

#### New Features / Improvements

- Combo OTDR and connector inspection pdf report generation is now possible through the instrument setup.

#### Corrections

- Miscellaneous bug fixes

### FiberComplete PRO (Bidir OTDR): 4100 series / 4100 B FCOMP series

#### Corrections

- TrueBIDIR conflict with built-in calibrated power meter resolved.

### OSA/OCC

#### Problems Correction

- OSA pdf report now keeps the spectrum view defined on test set when unit is set to nm or THz.



## Previous versions history

Version ID : 241140

Release date : March 18, 2024

Hardware	Version	Build
Mainframe	4.3.4	04 March 2023
Fiber Optics	24.00	14 March 2023

### OTDR

#### New Features / Improvements

- New “Slope detection” set up now enabled with minimum distance management
- FTTH-SLM: Distributed Taps/Unbalanced Splitters: New “Taps\_Discover” config file
- FTTH-SLM: New alarm thresholds for 1:128 splitter type
- QUADv2: Minimum pulse is now set to 3 ns instead of 5ns

#### Corrections

- Vertical scale on the Trace view is no longer hiding the OTDR trace
- Real time mode: Wrong distance & event numbering issues are fixed
- Miles distance display is clearly displayed in the information bar

### FiberComplete PRO (Bidir OTDR): 4100 series / 4100 B FCOMP series

### FiberComplete (Bidir IL/URL + OTDR) : 4100B FCOMP series

#### New Features / Improvements

- STOP: Pass/Fail management disabled with STOP activated during a test sequence
- Remote unit : Pass/fail icons status management disabled with IL/URL+OTDR sequence
- Slope detection set up now enabled with minimum distance management
- Convenient reload of previous raw results (IL/URL + OTDR) : 1 unique proprietary raw file. Fcpro now includes automatically .msor (OTDR)

#### Corrections

- Bidir. Loopback function re-enabled with QUAD v1
- Table view display corrected with IL/URL test sequence
- Referencing wizard messages consistency
- Average slope label now indicated in pdf report
- Robustness of datalink with OneAdvisor 800 platform

### Cable-SLM / MultiFiber MPO Switch

#### New Features / Improvements

- Expert app:
  - Raw .sor files now saved in OTDR acquisitions (feature already available in FCOMP/FCOMP PRO test sequence)
  - Cable view always enabled during test
- Project without label: Number of fibers per row now by 12 (before by 8)
- Pass /fail check and cross icons added in addition to green/Red Colors coding of pass/fail status



### Corrections

- FCOMP or FCOMP-PRO with MPO switch: continuity mapping stabilized with fanout cables configuration
- MPO switch enhanced User guidance

### **OSA/OCC**

#### Problems Correction

- OSA – Channel spacing in OSA results table of the pdf report is fixed
- OSA810B with ONA800: No more app crash after pressing the fast report button

### **Inspection**

#### New Features/ Improvements

- Add a new tip setting (\*.tip.xml) while retaining the existing settings
- Select an IEC 61300-3-35 edition 3 profile for pass-fail testing
- Miscellaneous bug fixes

<b>Hardware</b>	<b>Version</b>	<b>Build</b>
Mainframe	4.3.2	03 October 2023
Fiber Optics	23.68	04 December 2023

### **OTDR**

#### New Features / Improvements

- Add loopback software option to new E4146A-PC and -APC singlemode/multimode modules.
- FTTH-SLM: Update splitter detection criteria in discover mode.
- FTTH-SLM: Add new set of unbalanced tap couplers and enhance setup menu to address new configurations.
- Add launch and receive cable information in pdf report.
- Change Viavi default splice threshold to 0.3dB for pass/fail analysis.

#### Corrections

- Manage configuration file overwrite.
- locked markers no longer lost during consecutive tests.
- wrong global pass/fail indication in "eventLine" status.
- Pass/Fail status correctly updated when changing split ratio manually in PON test scenario.

### **Powert Meter**

#### New Features / Improvements

- Display the power measurement unit as dBm by default.

#### Corrections

- Problem with overwriting during file saving.

### **FiberComplete PRO - FiberComplete**

#### New Features / Improvements



- Prevent remote unit to go to sleep mode during multi-fiber test sequence.
- Always focus File Explorer to the running project directory

## Cable-SLM / MultiFiber MPO12 Switch

### New Features / Improvements

- Cable-SLM + FiberComplete PRO: messages updated in manual operation.

## Job Manager/Test Process Automation

### New Features/ Improvements

- Improve management of special characters per UTF-8.
- Add pop-up message when sync to Stratasync completed.

## Inspection

### New Features/ Improvements

- Potential turn-up issue when P5000i connected to mainframe.

Hardware	Version	Build
Mainframe	4.3.2	03 October 2023
Fiber Optics	23.62	19 October 2023

## OTDR

### New Features / Improvements

- Main enhancements:
  - FTTH-SLM: 1/64 splitter topology measurement
  - OTDR grouped-events
- Main bug fixes:
  - FTTH-SLM: Multiple fiber ends icons at 1310/1550nm
  - Events displayed after a manual “Fiber End” event addition in SmartLink view
  - Wrong Section loss displayed in PDF and json files
  - Cursor position and display on PDF report
- Translation updates (German)

## FiberComplete PRO - FiberComplete

### New Features / Improvements

- Simplified set up & New options:

-> Caution: all existing Config. Files may need to be redone.

-> Caution: both units will need to have this SW version. Mixing previous SW versions with this one will cause communication errors.

- New: Direct short cuts in Process view for: “Launch cable, receive cable, Location A, Location B”: a long touch gesture on the purple screen zone allows to open the dedicated dialog box, without the need to go in the set up menu,
- New: Set up wording & sections changed: “Test Cables”, “laser” selection different between IL/ORL & OTDR,
- New OTDR acquisition option: “Manual” with “Pulse” & “Acquisition time” set up,
- New: .sor files saving option in Report set up (file content: “one & all traces”),

- Simplified: Expert set up menu adjusted upon FCOMP set up:
  - If OTDR acq. Is auto or manual -> “Expert OTDR” app set up available is: Display/Advanced. By default: Connector test = no ; include link start connector= yes, include link end connector = yes,
  - If OTDR acq. Is Expert OTDR-> “Expert OTDR” app set available is : Acquisition/ Alarms/Display/Advanced.
- Rationalization & better user guidance:
  - New: time synchronization between local & Remote @Start,
  - New: Referencing/ Factory Ref: automatic exit of the referencing menu after “factory ref” icon pressed,
  - New: icon continuity now displayed during the referencing process/ removed from Process, IL/ORL bidir & Smartlink views,
  - New: @Start, an alert message is displayed if no referencing has previously been recorded,
  - Specific Test sequences no longer available: ORL standalone, OTDR Unidir only
  - Remote unit: Smartlink view no longer displayed, results files no longer saved
  - Revised: Autoset (Fields list in the user manual),
  - Revised & renamed: 5 Default config files for demonstration: IL ORL ; IL ORL Fault Finder; IL ORL UnidirOTDR ; IL ORL TrueBIDIR; TrueBIDIR. (previous default config files will no longer be available),
  - Revised: all non-relevant soft keys are inactivated during the referencing process.
- FCOMP. Pdf Report:
  - Wording updated,
  - IL/ORL & Length results with mode: CW or OTDR mentioned,
  - Translation updates: German.
- Main bug fixes:
  - TrueBIDIR analysis,
  - References with Loopback method: ORL display & specific test sequences,
  - Referencing process stability
  - Synchronization between units (with & without switch),
  - Fast report with .msor & .sor,
  - Automatic detection of remote & local SW version & HW incompatibilities: pop up messages, adjusted set up,
  - Loopback OTDR Acq.: transmission of FCOMP set up in Expert, corrections in .pdf report

## Cable-SLM / MultiFiber MPO12 Switch

- Cable-SLM + FiberComplete PRO:
  - Project report – FCOMP: both devices, alarms, results table with total tested/passed/failed ; label ID, Link Loss AB & Link Loss BA with mode : CW or OTDR mentioned, # of events,
  - Continuity icon now displayed in Cable view,
  -



- Cable-SLM :
  - Project creation simplified (less fields, label list @ no by default)
  - Load config files after project creation no longer possible
  - During a test sequence, in cable view: "Close project" soft key inactivated, other fiber selection not possible anymore
  - Results view: color coding simplified, check mark removed on project without labels.
- MultiFiber MPO12 switch:
  - Switch serial # displayed in the .pdf report
  - No longer available: "full switch sequence" without an opened project (with Cable-SLM SW option installed)
  - Correction of the switch module management on ONA800 platform

## Dispersion

### New Features/ Improvements

- Management of the broadband source module (E81BBS2A-)
- Wait period set up now possible

## OSA/OCC

### Problems Correction

- OSA - Error in calculating cursor position
- OSA - text setup "Detect.: Permanent" partly overrides "Splitter" on display
- OSA – correction of turn-up random issue with OSA-110 in ONA-800A
- OCC-4055 and OCC-4056: Incorrect auto threshold calculation

## Inspection

### New Features/ Improvements

- Translation Updates (French)

**Version ID : 4.3.0**

**Release date : August 18, 2022**

Hardware	Version	Build
Mainframe	4.3.0	18 August 2023
Fiber Optics	23.40+svn78878	21 July 2023

## OTDR

### Problems Correction

- ExpertOTDR: minor modifications of the setup menus
- Miscellaneous bug fixes and translation corrections

## FiberComplete PRO / Multi-Fiber Switch

### Problem Corrections and Improvements

- Individual report (.txt + .pdf) : remote unit serial number and calibration date now displayed
- Miscellaneous bug fixes and translation



## **OSA/OCC**

### Problems Correction

- Modification of the nanoOSA message when other FO application is selected/running

## **Test Process Automation (TPA) / Job Manager**

### New Features/ Improvements

- Aligned Metadata sent to Stratasync across instruments
- Add broader character support for TPA fields
- Miscellaneous bug fixes

## **Inspection**

### New Features/ Improvements

- Delete tip settings via the setup menu
- Delete analysis profiles via the Setup menu
- Delete report logos via the Setup menu
- Miscellaneous bug fixes



Version ID : 4.2.0  
Release date : May 03, 2022

Hardware	Version	Build
Mainframe	4.2.0	03 May 2023
Fiber Optics	23.22+svn78878	03 May 2023

## OTDR

### Problems Correction

- E41CWDM10U OTDR module no longer crashes with T-BERD/MTS-2000 & 4000v2 Platforms

### Improvements

- Combo PM/OTDR Test Results
  - Auto Store disabled. Now possible to add comments, notes or change event type.
  - Power level now included in PDF report

## FiberComplete PRO / Multi-Fiber Switch

### New Features

- Analysis & alert messages now displayed if units have different FO SW version
- Alert message displayed if the remote unit has a different laser set than the master unit (for ex. 3 lasers selected on master whereas 2 lasers only are available on remote)

### Problem Corrections and Improvements

- “.sor” savings set up (“one trace” or “one and all traces”)
- Results display: IL/ORL tab (IL/ORL Bidir; length, Mode: CW or OTDR)
- Limitations of options selection (SmartAcq, PON & unbalanced FTTH) when TrueBIDIR is selected
- .pdf report correction
- German translations corrections
- Referencing not possible if on-going testing sequence

### With Multi-Fiber Switch Module:

- Automatic switching sequence with Cable-SLM : set up +messages have been updated
- Polarity & continuity: faster measurement process
- Cable-SLM SW is now an option for FiberComplete + Multi-Fiber switch
- Length measurement fix

## OSA/OCC

### Problems Correction

- OSA A-B cursors info changed to dB instead of dBm
- Software crash when an OCC-4056 module with an SFP transceiver plugged-in is fixed



## Test Process Automation (TPA) / Job Manager

### New Features/ Improvements

- Added formal support for Android connectivity (smart devices running Android 12 or a newer version recommended)
- Improved support for iOS connectivity with VIAVI Mobile Tech app
- Improved support for Ethernet/Wi-Fi connectivity with VIAVI Mobile Tech app
- Added support for job creation via API
- Added support for job creation via VIAVI Mobile Tech app
- Added support for configuration deployment from StrataSync
- Added support for software option deployment via VIAVI Mobile Tech app
- UX/UI improvements for the instrument-based Job Manager
  - Support for creating jobs locally via templates
  - Improved integration with fiber tests
- Miscellaneous bug fixes

## Inspection

### New Features/ Improvements

- Added support for importing test results from a USB-connected FiberChek probe microscope
- Added support for updating the profiles on a FiberChek probe microscope when deployed from StrataSync
- Added an About screen under Setup
- Improved management of tip settings and profiles when deployed from StrataSync
- Improved popup messages when using Job Manager
- Miscellaneous bug fixes

**Version ID : 4.1.2-r0\_a1**

**Release date : March 2nd, 2023**

▪ Application	Version	Date
Mainframe	4.1.2-e5dbceb9fb	2023/03/01
Fiber Optics	23.08+svn78059	2023/03/02

## Mainframe / Base Unit

### Problem corrections

- Expired temporary FO license still visible on ONA-800 system screen is fixed
- Sync of FO configuration files in ONA-800 with Stratasync is fixed
- FTТА-SLM Application crash on ONA-800 is fixed
- 

## OTDR

### Improvements



- Enhancement of grouped events pass/fail analysis
- Possibility to add a customized pulse width in the OTDR setup menu
- Default bend detection change to 0.3dB

#### Problem corrections

- “Show cursor” setting is now saved in the config file
- SLM/Table update problem when changing event type manually is fixed
- “.” Symbol added to German keyboard
- 

### **LTS (Power Meter/ Source Application)**

#### Problem correction

- Problem with directory management is fixed

### **Cable-SLM**

#### Improvements

- Enhanced management of labels
- Acquisition test sequence performed according to presence of optical switch or not
- New Cable-SLM project creation in OTDR Expert mode

#### Problem corrections

- FCOMP-PRO job associated to Cable-SLM now pushes configuration into both FCOMP-PRO and OTDR Expert.

### **FTTH-SLM**

#### Improvements

- 4100A module: With FTTH-SLM Base License, the selection and analysis of 2 splitters is now available

#### Problem corrections

- Improvement of Splitter test with Launch cable directly connected to the first splitter
- Event code on top of existing splitter icon is not set when reloading .csor file

### **FiberComplete PRO**

#### New functionalities

- Allowing long acquisition time (up to 3min) with manual OTDR set up

#### Improvements

- Faster switching time for MPO switch
- Switch port selection now possible with Cable-SLM project/ label/ Simplex fiber
- Enhancement of the stop function in FCOMP-PRO while running a test sequence
- Enhancement of the automatic switching sequence for MPO switch module / 4100B FiberComplete Module / ONA-800 Platform

MPO SWITCH MODULE:



- Set up option “switch sequence” no longer accessible in the HMI when a project has been opened via Cable-SLM (option remains possible in manual switching mode only)
- Set up option “MPO 20/24 & MPO 24/24” no longer accessible in Cable-SLM project/ label list/ multifiber connectors/fiber count
- Set up option “Report/ consolidated option” no longer accessible when Cable-SLM project is running

#### FCOMP-PRO:

- Pdf report now includes OTDR traces after “replay TrueBidir” is performed
- Time-out between products in both extremities is fixed
- 4100A module now compatible with TrueBidir & Loopback SW options
- Simultaneous project creation either on ExpertOTDR or FCOMP-PRO with Job manager
- Problem with the display of the FCOMP-PRO icon is fixed on ONA-800

#### OSA/OCC

##### Problem corrections

- Configuration table functionality is now available with WDM expert license new GUI
- In Grid Mode "Manual" the marker follow the WDM table line selection

#### Job Manager

##### Enhancements

- Possibility to handle job template files coming from StrataSync or MTA

#### TPA 1.0

##### New Function

- Integration of a full StrataSync/Mobile Tech App process with Job Manager

#### Inspection

##### New Function

- User interface refresh
- Allows probe microscope firmware updates via host instrument
- Now possible to add new inspection tip settings via a USB drive or StrataSync
- Now possible to add new test profiles via StrataSync
- End face image now saved/embedded within the saved JSON results



Version ID : 222950  
Release date : July 21st, 2022

▪ Application	Version	Date
Fiber Optics	22.52	2022/07/21

## Mainframe / Base Unit

### Improvements

- Management of exclusivity when 2 OTDR modules housed on the same machine
- P5000i Inspection Probe Asset Management in StrataSync
- Increase number of characters in comment field (up to 99)
- Improvement of boot up process with color transition

### Problem corrections

- Special characters ( "-" and "\_" ) added on German alphabetic keyboard
- Display error on upgrade screen corrected
- Files with a space in the name can now be uploaded to MTA (iOS only)
- Japanese: Application no longer crashes while saving pdf report

## OTDR

### New functionalities

- Predefined G654E specifications added to the list of fiber parameters (IOR, backscattered...)

### Improvements

- Improved Touchscreen calibration for TRACE TABLE SLM selection
- Events table redesigned for better legibility
- Ability to hide trace in Expert OTDR addition
- New A & B cursor management
- Update launch cable” menu labelling - now Test Cable

### Problem corrections

- OTDR Assistant (SmartTEST, FTTH-SLM): incorrect field in page "record information"
- No longer cut task naming shorter than 100 characters
- Launch cable management if incorrect length entered
- Problem of event detection after fiber end on short links now fixed
- Labelling of splice detection when manually set to 0.05dB always shows "Auto"
- Mini linear view correction when switching direction with an .msor file
- Correction of SmartLinkMapper refresh in OTDR tab after FiberComplete acquisition
- "Copy file/link to all" doesn't copy job id to the SLM-Enterprise menu
- OTDR Expert - Cursors remain hidden even in Analysis when set to "No"
- Trace info - correction of linear attenuation between A&B cursors
- Issues with mini linear view when many events detected



## FTTH-SLM

### Problem corrections

- Correction of incorrect trace recombination in multi-pulse acquisition

## FiberComplete PRO

### New functionalities

- FiberComplete-PRO MPO reference management
- CABLE-SLM integration and management into FCOMP-PRO

### Improvements

- FCOMP-PRO now saves msor file with AB and BA multi-wavelength OTDR traces and distributed events (sor storage to be selected in Expert)
- Enable loss and ORL results display with TrueBIDIR only
- Add loss, ORL and length in summary table when performing TruBIDI only test
- High fiber count cable Workflow with FCOMP-PRO
- Launch cable management in Bi-dir IL/ORL only test configuration
- Do not allow START/Real Time OTDR when FCOMP/FCOMP PRO is active
- CABLE-SLM integration and management into FCOMP-PRO
- OTDR/FCOMP/FCOMP-PRO: Contextual help for ORL & total Loss
- OTDR loopback: change the JSON loopback extension file from “.fcpro.json” to “.bidir.json”.
- New FCOMP-PRO connectivity icon.
- Add fiber number in FiberComplete PRO Loopback Summary table.
- Add section/slope selection in the SmartLink view.
- Adapt reference process graphic to MPO connector.

### Problem corrections

- FCOMP-PRO: Wrong format type displayed in the file explorer.
- B to A slope values are not stored correct in the TrueBIDIR json files
- Incorrect Cable-SLM target storage folder when set up as "dir/current" different than disk
- In cable view, long labels are truncated- Now possible to scroll left and right

## OSA/OCC

### Problem corrections

- OCC pdf report now matches results table
- Wait period with nanoOSA (41OSA) now working
- Open OSA trace without autozoom and keep zoom defined at storage
- OCC drift function brought back



Version ID : 220740

Release date : February 17<sup>th</sup>, 2022

Application	Version	Date
Fiber Optics	22.02	2022/02/17

## Mainframe / Base Unit

### New functionalities

- Management of the new 4100 A-Series OTDR module

### Improvements

- Improved and simplified software upgrade messages and softkeys (via Ethernet/WiFi)
- Test set calibration date added to all .pdf reports
- Improved readability in the About page of modules long part number and serial number

### Problem corrections

- Merge of multiple .pdf in the File Explorer

## Microscope

### New functionalities

- Microscope function put in live mode when coming from the job manager

## LTS (Light source & power meter)

### Problem corrections

- Proper management of the power meter zero offset

## OTDR

### New functionalities

- Fiber ID added to Fast Report setup menu

### Improvements

- Key and menu labels updates:
  - **File** setup changed into **Report**
  - **File** softkey changed into **File Explorer**
- User interface updates:
  - Zoom buttons position moved to the top right corner of the graph
  - Setup menu: **Test Cables** section added. It contains Launch, Receive and Loopback cable settings
  - SmartLink Mapper: ability to select a section/slope
  - SmartLink Mapper: enhancement of the event detail description (splitter description with FTTH-SLM Base license, pass/fail criteria & threshold values)

## FTTH-SLM

### New functionalities

- Job ID added to .csor PDF report

### Improvements

- When Job Manager pushes FTTH config file, it updates the "Config." setup field inside FTTH-SLM

### Problem corrections



- When the first event corresponding to the first standard splitter (of an unbalanced splitters network) is detected at position < 0m, the event is not detected/interpreted as splitter but as launch cable.

## FiberComplete PRO

### New functionalities

- Fiber number increased to 9999
- Cable-SLM management to create project/cable view and simplify the management of high fiber count testing:
  - New button **Manage Project** and setup popup window: import label list, create simplex or MPO cable structure
  - Fully automated test sequence for up to 12 fibers (with integrated MPO switch)
  - Pass/fail status of tested fibers/labels in **Cable** tab
  - Creation of a .prj file that contains labels / structure and pass/fail status
  - When a Cable-SLM project closes, a summary .pdf report is generated. It contains the average loss, worst ORL, length and pass/fail status per tested labels/IDs and wavelengths.
  - Switch port used for the current measurement is displayed in the **Process** tab
- Length of the fiber under test, displayed in the **Process** tab on the **synoptic**, does not include the launch and receive cables length

### Improvements

- Suppression of launch and receive cable management by event position
- Enhancement of bi-directional OTDR (Loopback mode) slope measurement
- Pass/fail event thresholds made available for the bi-directional OTDR Loopback mode
- Better management of custom jobs coming from StrataSync
- Fault Finder results only visible in the Fault Finder tab
- OTDR Loopback mode allowed when changing setup from IL/ORL and/or TrueBIDIR/BiDir OTDR

### Problem corrections

- Fault Finder results only visible in the Fault Finder tab
- When using Expert OTDR settings, the file naming of the OTDR results missed the wavelength field (if OneTrace/.sor). To make sure the file name is understandable, underscores are added between the fields.
- Improved length measurement with 4100 MA3-FCOMP

## OSA/OCC

### Improvements

- Nano OSA: better management of the splitter compensation function

Version ID : 21.9.11

Release date : Dec 01, 2021

Application	version	Date
Fiber Optics	21.62	2021/11/26

## Mainframe / Base Unit

### New functionalities

- Improvements and corrections of the new user interface



### Improvements

- German translation errors
- PDF report now better highlights failed results

### Problem corrections

- Home page text overlap in Portuguese language

## **OTDR**

### Improvements

- TrueBIDIR function can now be activated on any 4100 series B & C OTDR modules
- Management of different extremities

### Problem corrections

- TrueBIDIR now works when directory name contains space

## **FCOMP-PRO/FiberComplete**

### Improvements

- TrueBIDIR function now activates on any 4100 series B & C OTDR modules
- Management of different extremities

### Problem corrections

- Setup exchange now possible even if talk set or cloud connection enabled between both test sets

Version ID : 21.9.2

Release date : October 8<sup>th</sup> 2021

Application	version
Fiber Optics	21.50

## **Mainframe / Base Unit**

### New functionalities

- Improvements and corrections of the new user interface
- Addition new license TrueBIDIR: ETRUEBIDIR-FCOMP-PRO

### Improvements

- PDF reports always include cursors A&B on graph
- Ability to do a screenshot from the Results page with new UI
- Translation updates (Chinese, German, Hungarian and others)

### Problem corrections

- T-BERD/MTS4000 random lock up at turn-up (White screen)

## **Microscope**

### Improvements

- Test report settings always kept at product turn off

## **OTDR**

### New functionalities

- New TRUEBIDIR functionality allowing performing automated bi-directional OTDR measurements with setup and results transfer through the fiber under test
- Add 25GHz channel grid for DWDM OTDR application

### Improvements



- Better management of 3-splitter clusters in PON architecture with FTTH-SLM
- Optimized test time vs. pulsewidth in high split ratio (>1x64)

#### Problem corrections

- The launch cable integrated into the OTDR modules is correctly managed
- Average loss value different between pdf report and SLM Test Process Automation (TPA)

#### New functionalities

- Management of FiberComplete workflow into Stratasync, MobileTechApp and Job Manager
- Management of new FCOMP-PRO results and jobs (workflow process availability pending official Stratasync software version 13.0 and MobileTechApp 4.6)
- Send and receive FCOMP-PRO config files to/from Stratasync

#### Improvements

- Add metadata to Bidir IL/ORL pdf reports for Stratasync
- Inspection scope + OTDR process flow better managed Problem corrections
- Factory sync of purchase order number and date

### **OSA/OCC**

#### New functionalities

- New OSA module for T-BERD/MTS 2000/4000/5800 and ONA-800 mainframes
- New OSA user interface

### **FCOMP-PRO/FiberComplete**

#### New functionalities

- New TRUEBIDIR functionality allowing performing automated bi-directional OTDR measurements with setup and results transfer through the fiber under test
- Ability to sequence automated bi-directional IL/ORL and TrueBIDIR OTDR Improvements

- MPO switch management sequencing 12 FiberComplete measurements and auto-detecting MPO cable polarity type.



## Technical Assistance

For assistance related to the use of your product, call or e-mail VI.AVI Technical Assistance Center (TAC) in your region. For a current listing of TAC phone numbers and e-mail addresses, go to: <http://www.viavisolutions.com/en/services-and-support/support/technical-assistance>



Viavi Solutions  
1-844-GO-VI.AVI  
[www.viavisolutions.com](http://www.viavisolutions.com)