# SmartOTDR

## Latest Version

**Version ID : 24.4.14**
**Release date : 2024-09-24**

| Application | Version | Date |
|---|---|---|
| File System | 23.13.14 | 2024/09/23 |
| Boot | 10.86.1 | 2024/07/10 |
| Fiber Optics | 24.4.14 | 2024/09/23 |
| Instrument Setup | 24.4.14 | 2024/09/19 |
| Linux Kernel | 25.12.2 | 2024/07/10 |
| Microscope | 24.4.14 | 2024/06/11 |

### OTDR
Corrections
- FTTH-SLM: receive cable connected directly to the splitter or short distance between the splitter and the receive cable incorrect management fixed

### Test Process Automation (TPA)
Enhancement
- Remote display support in VIAVI Mobile Tech App (VMT) in local mode now available

# Previous Versions History

**Version ID : 243111**

**Release date : August 12, 2024**

| Application | Version | Date |
|---|---|---|
| File System | 23.13.5 | 2024/08/12 |
| Boot | 10.86.1 | 2024/07/10 |
| Linux Kernel | 25.12.2 | 2024/07/10 |
| Fiber Optics | 24.4.9 | 2024/07/29 |
| Instrument Setup | 24.4.9 | 2024/07/02 |
| Microscope | 24.4.9 | 2024/07/22 |

## All Apps
New Features / Enhancements
- File naming now supports up to 120 characters

## OTDR
New Features / Enhancements
- User Interface/User Experience:
  - 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

## 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

## Test Process Automation (TPA)

<u>New Features/ Enhancements</u>

- New json versions:
  - OTDR test type: 1.6.1
  - Inspection test type: 1.3.3
- Regression issue with StrataSync metadata for binary (SOR) files now corrected

**Version ID : 241912**

**Release date : May 21, 2024**

| Application | Version | Date |
|---|---|---|
| Microscope | 24.2.5 | 2024/03/13 |
| Instrument Setup | 24.2.5 | 2024/05/06 |
| Fiber Optics | 24.2.5 | 2024/05/02 |
| Boot | 10.85.0 | 2023/12/26 |
| Linux Kernel | 25.10.0 | 2024/05/06 |
| File System | 23.9.1 | 2024/05/06 |

## OTDR
<u>Corrections</u>

- Miscellaneous bug fixes

**Version ID : 241140**

**Release date : March 18, 2024**

| Application | Version | Date |
|---|---|---|
| Microscope | 24.00 | 2024/03/13 |
| Instrument Setup | 24.00 | 2024/03/13 |
| Fiber Optics | 24.00 | 2024/03/14 |
| Boot | 10.85 | 2023/12/26 |
| Linux Kernel | 25.9 | 2024/03/12 |
| File System | 23.7.1 | 2024/03/12 |

## OTDR

New Features / Improvements

- New "Slope on section" parameter with configurable minimum distance range
- FTTH-SLM: Distributed Taps/Unbalanced Splitters: New "Taps_Discover" config file
- FTTH-SLM: New alarm thresholds for 1:128 splitter type

Corrections

- Vertical scale on the Trace view is no longer hiding the OTDR trace
- Real time mode:  Wrong distance & event numbering issues are fixed

## 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

**Version ID : 234930**

**Release date : December 06, 2023**

| Application | Version | Date |
|---|---|---|
| Microscope | 23.68 | 2023/12/06 |
| Instrument Setup | 23.68 | 2023/12/06 |
| Fiber Optics | 23.68 | 2023/12/06 |
| Boot | 10.84.0 | 2023/08/11 |
| Linux Kernel | 25.6.2 | 2023/09/22 |
| File System | 23.4.7 | 2023/12/06 |

## OTDR

New Features / Improvements

- FTTH-SLM: Updated splitter detection criteria in discover mode.
- FTTH-SLM: Distributed Taps/Unbalanced Splitters: New Discover mode + new test point selection between "Drop" & "Bus" (Thru)
- Launch and receive cable information addition into pdf report.
- VIAVI default splice threshold changed to 0.3dB for pass/fail analysis.

Corrections

- Configuration file overwrite management.
- Locked markers no longer lost during consecutive tests.
- Wrong global pass/fail indication in "eventLine" status is fixed.
- Pass/Fail status correctly updated when changing split ratio manually in PON test scenario.

## Power Meter

New Features / Improvements

- Power measurement unit displayed as dBm by default.

Corrections

- Overwriting during file saving problem now fixed.

## Test Process Automation (TPA) / Job Manager

New Features/ Improvements

- Management of special characters per UTF-8 improvement.
- New pop-up message when sync to StrataSync is in progress and complete.

## Inspection

Correction:

- Potential turn-up issue when P5000i probe connected to mainframe now fixed.

**Version ID : 234241**

**Release date : October 19, 2023**

| Application | Version | Date |
|---|---|---|
| Microscope | 23.62 | 2023/10/19 |
| Instrument Setup | 23.62 | 2023/10/19 |
| Fiber Optics | 23.62 | 2023/10/19 |
| Boot | 10.84.0 | 2023/08/11 |
| Linux Kernel | 25.6.2 | 2023/09/22 |
| File System | 23.4.4 | 2023/10/19 |

## OTDR

New Features / Improvements

- Removal of SuperExpert license, the features are now available by default in ExpertOTDR set-up menu
- Main enhancements:
    - FTTH-SLM: 1/64 splitter topology measurement
    - OTDR grouped-events
    - ExpertOTDR: Possibility to add a customized pulse width
- Main bug fixes:
    - SmartOTDR B: "Signal detected" false messages
    - 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 or presence in PDF
- Translation updates and overlap corrections (German)

## Inspection

New Features/ Improvements

- Translation Updates (French)

**Version ID : 233110**

**Release date : July 21, 2023**

| Application | Version | Date |
|---|---|---|
| Microscope | V23.40 | 7/21/23 |
| Instrument Setup | V23.40 | 7/21/23 |
| Fiber Optics | V23.40 | 7/21/23 |
| Boot | 10.81.4 | 3/31/2023 |
| Linux Kernel | 25.2.2 | 3/3/2023 |
| File System | 23.1.23 | 7/31/2023 |

## OTDR
New features/Improvements

- Receive Cable position bug fix
- Translation corrections and updates (German & Czech)
- Miscellaneous bug fixes

## Test Process Automation (TPA) / Job Manager
New Features/ Improvements

- Added broader character support for TPA fields
- Miscellaneous bug fixes

**Version ID : 231450**
**Release date : April 7, 2023**

| Application | Version | Date |
|---|---|---|
| Boot | 10.81.4 | 2023/03/31 |
| Linux Kernel | 25.2.2 | 2023/03/03 |
| File System | 23.1.12 | 2023/04/07 |
| Instrument Setup | 23.22 | 2023/04/07 |
| Microscope | 23.22 | 2023/04/07 |
| Fiber Optics | 23.22 | 2023/04/07 |

## OTDR
New features/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
- Change of signal detection threshold that triggers "traffic detection" warning message (136FB and 138FB65 versions only)
- New PON Signal Compensation Mode (SW option for 138FB65 version only)

## 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 : 230350**
**Release date : January 20, 2023**

| Application | Version | Date |
|---|---|---|
| Boot | 10.81.2 | 2022/10/28 |
| Linux Kernel | 25.2.2 | 2022/11/04 |
| File System | 23.1.0 | 2023/01/20 |
| Instrument Setup | 23.04 | 2023/01/20 |
| Microscope | 23.04 | 2023/01/20 |
| Fiber Optics | 23.04 | 2023/01/20 |

## OTDR

Improvements

- Enhancement of grouped events pass/fail analysis
- Default bend detection change to 0.3dB

Problem corrections

- ExpertOTDR: Event notes now available standard for Point-to-Point and PON Network Configs
- "Show cursor" setting is now saved in the config file
- Problem with directory management is fixed
- SLM/Table update problem when changing event type manually is fixed
- "." Symbol added to German keyboard

## Cable-SLM

Improvements

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

## FTTH-SLM

Problem corrections

- "Launch cable connected directly to splitter" bug is fixed
- "Event code on top of existing splitter icon is not set when reloading .csor file" bug is fixed

## Job Manager

Enhancements

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

## TPA
 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 a StrataSync update
- End face image now embedded within the saved JSON results

**Version ID : 222950**

**Release date : July 21, 2022**

| Application | Version | Date |
|---|---|---|
| Boot | 10.81.1 | 2022/07/21 |
| Linux Kernel | 25.1.0 | 2022/05/31 |
| File System | 23.0.7 | 2022/07/22 |
| Instrument Setup | 22.52 | 2022/07/21 |
| Microscope | 22.52 | 2022/07/21 |
| Fiber Optics | 22.52 | 2022/07/21 |

## Mainframe / Base Unit

New functionalities

- Integration of password protection at turn up. Optional license (EPASSWORDPROTECT)

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

**Version ID : 220740**

**Release date : February 17, 2022**

| Application | Version | Date |
|---|---|---|
| Boot | 10.81.0 | 2022/01/28 |
| Linux Kernel | 21.8.2 | 2021/12/17 |
| File System | 21.10.2 | 2022/02/17 |
| Instrument Setup | 22.02 | 2022/02/17 |
| Microscope | 22.02 | 2022/02/17 |
| Fiber Optics | 22.02 | 2022/02/17 |

## Mainframe / Base Unit

Improvements

- Improved and simplified software upgrade messages and softkeys (via Ethernet/WiFi)
- Test set calibration date added to all .pdf reports

Problem corrections

- Merge of multiple .pdf in the File Explorer

## Inspection

New functionalities

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

## FTTH-SLM

<u>New functionalities</u>

- Job ID added to .csor PDF report

<u>Improvements</u>

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

<u>Problem corrections</u>

- 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 (Loopback)

<u>New functionalities</u>

- Fiber number increased to 9999

<u>Improvements</u>

- Removal 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

**Version ID : 214750**

**Release date : December 1, 2021**

| Application | Version | Date |
|---|---|---|
| Boot | 10.80 | 2021/10/08 |
| Linux Kernel | 21.8.2 | 2021/09/27 |
| File System | 21.9.11 | 2021/11/26 |
| Instrument Setup | 21.62 | 2021/11/26 |
| Microscope | 21.62 | 2021/11/26 |
| Fiber Optics | 21.62 | 2021/11/26 |

## Mainframe / Base Unit

New functionalities

- Improvements and corrections of the new user interface

Improvements

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

Problem corrections

- Home page text overlap in Portuguese language

**Version ID :  214050**

**Release date : October 8, 2021**

| Application | Version |
|---|---|
| Boot | 10.80 |
| Linux Kernel | 21.8.2 |
| File System | 21.9.2 |
| Instrument Setup | 21.50 |
| Microscope | 21.50 |
| Fiber Optics | 21.50 |

## Mainframe / Base Unit

<u>New functionalities</u>

- Improvements and corrections in the new user interface

<u>Improvements</u>

- 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)

## Inspection

<u>Improvements</u>

- Test report settings always kept at product turn off

## OTDR

<u>Improvements</u>

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

## PON Power Meter

<u>Improvements</u>

- Homogenization of XGS-PON downstream wavelength to 1577nm

## Test Process Automation (TPA)

<u>Improvements</u>

- Inspection scope + OTDR process flow better managed

<u>Problem corrections</u>

- Factory sync of purchase order number and date