



## 6000/6000A Platform Family Version History

February 1st, 2011

The compact 6000/6000A Platform software is made of different application firmware versions, which can be upgraded simultaneously (except for the boot firmware).

When firmware versions are upgraded simultaneously, a specific firmware pack number is provided. The list of firmware pack versions is provided under the [Firmware version chapter 2](#). The firmware pack version that you just downloaded is described in the [Downloaded Firmware pack Version Description chapter 1](#)

The following firmwares shall be resident in the unit:

[Fiber Optics](#)

[File System](#)

[Instrument Setup](#)

[Linux Kernel](#)

[Microscope](#)

[System Setup](#) (became integrated into Instrument Setup after V3.70)

[Boot](#)

You will find below the history of the different firmware pack versions.

### 1/Downloaded Firmware pack Description

#### **P11471 Firmware pack Version (06/07/2011):**

Boot V3.10 (07/10/2011)

Linux Kernel V3.82 (07/10/2011)

File System V2.88 (14/11/2011)

Fiber Optics V7.22 (07/10/2011)

Instrument Setup V7.22 (07/10/2011)

Microscope V7.22 (07/10/2011)

This version provides the following additional function:

Base: Addition of bidirOTDR option into service data page

Base: Improvement of the USB/scope management

Base: New translations: Vietnamese, Danish

OSA: Improvement on OSNR measurement for OSA-xxx modules

OSA: Drift measurement now with day/hour/min/sec

Scope: Report function

Scope: Integration of new profiles

Scope: New organization of the softkeys for scope management

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### 2/ Firmware packs (other than possible boot versions which may come separately)

#### **P11471 Firmware pack Version (06/07/2011):**

Boot V3.10 (07/10/2011)

Linux Kernel V3.82 (07/10/2011)

File System V2.88 (14/11/2011)

Fiber Optics V7.22 (07/10/2011)

Instrument Setup V7.22 (07/10/2011)

Microscope V7.22 (07/10/2011)

**P11273 Firmware pack Version (06/07/2011):**

Boot V3.10 01/07/2011  
Linux Kernel V3.80 01/07/2011  
File System V2.84 06/07/2011  
Fiber Optics V7.18 01/07/2011  
Instrument Setup V7.18 01/07/2011  
Microscope V7.18 01/07/2011

**P11063 Firmware pack Version (09/02/2011)**

Boot V3.10 09/02/2011  
Linux Kernel V3.76 13/01/2011  
File System V2.78 09/02/2011  
Fiber Optics V7.10 09/02/2011  
Instrument Setup V7.10 09/02/2011  
Microscope V7.10 09/02/2011

**P10463 Firmware pack Version (17/11/2010)**

Boot V3.06 17/11/2010  
Linux Kernel V3.72 17/11/2010  
File System V2.72 27/10/2010  
Fiber Optics V6.08 20/10/2010  
Instrument Setup V6.08 20/10/2010  
Microscope V6.08 28/10/2010

**P10423 Firmware pack Version (20/10/2010)**

Boot V2.40 10/11/2009  
Linux Kernel V3.32 20/11/2009  
File System V2.62 10/11/2010  
Fiber Optics V5.78 20/10/2010  
Instrument Setup V5.76 25/06/2010  
Microscope V5.74 08/06/2010

**P10262 Firmware pack Version (29/06/2010)**

Boot V2.40 10/11/2009  
Linux Kernel V3.32 20/11/2009  
File System V2.62 16/06/2010  
Fiber Optics V5.74 08/06/2010  
Instrument Setup V5.76 25/06/2010  
Microscope V5.74 08/06/2010

**P10184 Firmware pack Version (06/05/2010)**

Boot V2.40 10/11/2009  
Linux Kernel V3.32 20/11/2009  
File System V2.60 10/11/2009  
Fiber Optics V5.58 06/05/2010  
Instrument Setup V5.58 06/05/2010  
Microscope V5.58 06/05/2010

**P09475 Firmware pack Version (20/11/2009)**

Boot V2.40 10/11/2009  
Linux V3.32 20/11/2009  
File System V2.60 10/11/2009  
Fiber Optics V5.56 20/11/2009  
Instrument Setup V5.56 20/11/2009  
Microscope V5.56 20/11/2009

**P09334 Firmware pack Version (13/08/2009)**

Boot V2.36 27/07/2009  
Linux V3.22 27/07/2009  
File System V2.50 13/08/2009

Fiber\_Optic V5.26 27/07/2009  
Instrument Setup V5.26 27/07/2009  
Microscope V5.26 27/07/2009

**P09111 Firmware pack Version (09/03/2009)**

Boot V2.30 29/10/2008  
Linux V3.14 05/03//2009  
File System V2.36 04/03/2009  
Fiber\_Optic V4.58 07/01/2009  
Instrument Setup V4.60 04/03/2009  
Microscope V4.58 07/01/2009

**P09031 Firmware pack Version (12/01/2009)**

Boot V2.30 29/10/2008  
Linux V2.30 29/10//2008  
File System V2.32 12/01/2009  
Fiber\_Optic V4.58 12/01/2009  
Instrument Setup V4.58 12/01/2009  
Microscope V4.58 07/01/2009

**P08443 Firmware pack Version (29/10/2008)**

Boot V2.30 29/10/2008  
Linux V2.30 29/10//2008  
File System V2.30 29/10/2008  
Fiber\_Optic V4.54 29/10/2008  
Instrument Setup V4.54 29/10/2008  
Microscope V4.54 29/10/2008

**First version for 6000A - P08351 Firmware pack Version (25/08/2008)**

Boot V2.22 06/08/2008  
Linux V3.02 25/08//2008  
File System V2.22 04/08/2008  
Fiber\_Optic V4.50 28/07/2008  
Instrument Setup V4.50 28/07/2008  
Microscope V4.50 28/07/2008

**P08321 Firmware pack Version (4/08/2008) (internal use only)**

Boot V2.22 06/08/2008  
Linux V3.00 29/07//2008  
File System V2.22 04/08/2008  
Fiber\_Optic V4.50 28/07/2008  
Instrument Setup V4.50 28/07/2008  
Microscope V4.50 28/07/2008

**P08312 Firmware pack Version (29/07/2008)**

Boot V2.20 29/07/2008  
Linux V2.20 29/07//2008  
File System V2.20 29/07/2008  
Fiber\_Optic V4.50 28/07/2008  
Instrument Setup V4.50 28/07/2008  
Microscope V4.50 28/07/2008

**P08215 Firmware pack Version (23/05/2008)**

Boot V2.08 23/05/2008  
Linux V2.06 23/05//2008  
File System V2.10 23/05/2008  
Fiber\_Optic V4.06 03/04/2008  
Instrument Setup V4.10 18/04/2008  
Microscope V4.06 03/04/2008

**P07514 Firmware pack Version (20/12/2007)**

Boot V2.00 14/12/2007  
Linux V2.00 14/12//2007  
File System V2.00 14/12/2007  
Fiber\_Optic V4.02 20/12/2007  
Instrument Setup V4.02 20/12/2007  
Microscope V4.00 14/12/2007

**P07295 Firmware pack Version (20/07/2007)**

Linux V1.08 19/07//2007  
File System V1.12 20/07/2007  
Fiber\_Optic V3.70 20/07/2007  
Instrument Setup V3.70 20/07/2007  
Microscope V3.70 20/07/2007  
System Setup V3.70 20/07/2007

**P07234 Firmware pack Version (07/06/2007)**

Linux V1.06 02/04/2007  
File System V1.10 07/06/2007  
Fiber\_Optic V3.50 14/03/2007  
Instrument Setup V3.50 14/03/2007  
Microscope V3.50 14/03/2007  
System Setup V3.50 14/03/2007

**P07141 Firmware pack Version (02/04/2007)**

Linux V1.06 02/04/2007  
File System V1.06 14/02/2007  
Fiber\_Optic V3.50 14/03/2007  
Instrument Setup V3.50 14/03/2007  
Microscope V3.50 14/03/2007  
System Setup V3.50 14/03/2007

**P07024 Firmware pack Version (11/01/2007)**

Linux V1.04 01/12/2006  
File System V1.04 01/12/2006  
Fiber\_Optic V3.30 11/01/2006  
Instrument Setup V3.30 11/01/2006  
Microscope V3.30 11/01/2006  
System Setup V3.30 11/01/2006

**P06445 Firmware pack Version (03/11/2006)**

Linux V1.02 02/11/2006  
File System V1.02 03/11/2006  
Fiber\_Optic V3.20 03/11/2006  
Instrument Setup V3.20 03/11/2006  
Microscope V3.20 03/11/2006  
System Setup V3.20 03/11/2006

**P06293 Firmware pack Version (19/07/2006)**

Linux V1.00 11/07/2006  
File System V1.00 21/07/2006  
Fiber\_Optic V3.12 31/07/2006  
Instrument Setup V3.12 19/07/2006  
Microscope V3.12 12/07/2006  
System Setup V3.12 17/07/2006

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**3/ Fiber Optic Versions**

## **V7.22**

OSA: Improvement on OSNR measurement for OSA-xxx modules  
OSA: Drift measurement now with day/hour/min/sec

## **V7.18**

OSA: Management of Micro-OSA module (OSA-110M)  
Twintest mode of built-in power meter now interoperates properly with OLS-35 JDSU source

## **V7.10**

OTDR: Improvement of non reflective fiber end detection  
OTDR: improvements of auto measurement  
OTDR: Improvement of launch cable management  
OTDR: Return to result page after storage  
OTDR: Wording improvement in alarm setup  
OTDR: Integration of Bellcore blocks in sor file, making results displayed in MTS/T-BERD and FiberCable (>v6.80) identical.  
Bidir OTDR: Improvement of proposed distance range  
LTS: Improvement of Origin and End information after an update  
LTS: When performing an IL or ORL reference, the user no longer have to "Exit" when done.  
CD: Improvement of measurement on G655-type fiber  
OSA: Pressing "Test Auto WDM" soft key in OSA setup no longer crashes Fiber\_Optics application  
Macro: Time improvement between actions  
File: In File Manager, distances of OTDR files are now displayed correctly

## **V6.08**

Base: Management of BBS1A module  
Base: Macro is performed back considering averaging time  
Base: When time set as AM/PM on unit, test time now always present  
Base: « Enter » key in virtual keyboard  
Base: Copy/Paste of file is no longer changing initial file date  
Base: Load of pdf files directly from explorer  
Base: When the talk set is switched off, the message "source unavailable because of talk set activated" no longer occurs.  
OTDR: New FO features for PON networks testing.  
OTDR: Ability to generate 2 SOR files from one OEO file.  
OTDR: Auto zoom with cursor A/B positioning and improved A to B loss when A at 0 distance  
OTDR: In Summary page, add alarm area.  
OTDR: Improvement of SRL OTDR module management  
OTDR: Improvement of OTDR temperature alarm detection and VHD fan management  
OTDR: Improvements of automatic measurements and fiber end detection  
OTDR: Factory default now set connection check as « yes & continue »  
OTDR: It is now not possible to perform measurement when there is no trace shown  
OTDR: Auto setup now takes into account the MTAU  
OTDR: Full management of 1650nm wavelength.  
OTDR: When the unit is set at "Feet", the laser and the pulse are now correctly displayed in real time mode.  
OTDR: OTDR files stored with previous versions with X and Y axis are now load without horizontal cursors  
Bidir OTDR: During the test, 1550nm wavelength is now tested first.  
Bidir OTDR: Correction on bidirOTDR with trace as straight line  
Bidir OTDR: Improvement of wavelength detection on remote unit  
Bidir OTDR: Improved management of « start/stop » and « check same fiber » during datalink activation  
CD/PMD/AP: Addition of power level test before making measurements.  
CD/PMD/AP: New functions for CD measurement on amplified links.  
CD/PMD/AP: New message « Tuning in progress » on setup page.  
PMD: Improvement of message "Low coupling" in the PMD tab.  
CD / AP: Improved management of referencing for CD/AP  
CD/PMD/AP: More intuitive referencing (message improvements)  
CD/PMD/AP: Improvements of warning messages « OSA tuning failed » changed to « AP tuning failed » or « CD tuning failed » or « PMD tuning failed »

CD/PMD/AP: When editing CD alarms, « 0 » sets « none » (was -1 before)  
OSA: When displaying two traces, no offset  
BBS: New « Enter » key into numerical keyboard.  
MTAU: add a warning when moving from « Auto » to « Manual » mode  
OFI: Improvement of FOX sequence while distant unit is still on referencing process

#### **V5.78**

Improvements of SRL laser management

#### **V5.74**

OTDR: Improvements of SRL OTDR module management

#### **V5.58**

No addition

#### **V5.56**

Power Meter: new reference mode to make the jumper reference using the loopback method (requires the source option on OTDR).

OTDR: Enable the validation of the first connector with loss and reflectance measurement indication.

OTDR: New menu to activate a warning when the injection level is "bad". This will stop or not the acquisition.

OTDR: New key to edit the link length and set the Index of Refraction accordingly.

OTDR: New "Zoom to End" key in real time mode: enable automatic analysis of the splicing and / connectorization (ATT)

OTDR: New double acquisition feature: Possibility to perform acquisitions using the shortest pulse in order to qualify the beginning of the fiber, followed by acquisitions with the unit setup.

OTDR: OTDR Source: New reference mode to make the jumper reference using the loopback method (requires the power meter option on base-unit)

OTDR: Speed up test time on successive acquisitions when the acquisition setup is not modified, as the autoconfiguration is done only the first time.

OTDR: Current OTDR mode is displayed on top of the screen the: Fault Locator, Quick link test, Construction.

OTDR: When the traffic detection mode is not activated, OTDR acquisition is stopped in case traffic is detected, this with a warning.

OTDR: Improvement of generic loss measurements with/without launch cables.

OTDR: Better management of total loss measurement (short links, gains).

OTDR: Improvements on manual/semi-automatic measurement.

OTDR: Better differentiation of Reflectance threshold and fiber end.

OTDR: Improvement of fault locator function at the end of the real time acquisition

OEO: Bidir OTDR/TS: Improvement of datalink

OEO: Bidir OTDR: Worse reflectance value replaced the averaged reflectance value in the results

OSA: Improvement of text file content, with gives the acquisition information and the table of results.

File: New txt option on file type menu line, so that two files can be stored (basic function file and text result only file). For example SOR + txt for OTDR, PMD + txt for PMD...

File: New key "Origin\_Id" is available in the filenaming editor.

File: Improvement of the file naming editor

#### **V5.26**

Improved translation for Russian, Italian, German, Korean, Taiwanese, Turkish and Japanese translation

Management of new Seiko thermal printer (DPU S445)

LTS icons now separated into two icons: powermeter and source icons

Improved management of the date and the filename when printing

With internal printer, with FO applications, fiber number is now always shown

The printer icons is now shown with a reduced time

Improvement on Talkset/Datalink/bidirOTDR management

FO file: improved file renaming process for OFI and AP functions

FO file: faster management of directories with a large number of files

FO : File setup, Colour Code options (up to 36 tubes)

FO modules : FO functions tabs will only be present if activated (or after trace load)

OTDR : improvement of noise on first 150m using short pulse/short range

OTDR: Management of new modes: Fault locator / Quick link test / Expert

OTDR : Automatic measurement improvements

OTDR : Improved trace analysis just before a very reflective connector

OTDR: Laser selection enabled on fault locator mode  
OTDR: Management of multiple traces under one file (mostly for multiple wavelength of the same fiber)  
OTDR : change title of ISU icons from Otdr to OTDR  
OTDR: Be able to keep reference traces even during multiwavelength acquisition  
OTDR: improved ghost detection  
OTDR: management of dedicated pulse per wavelengths even when wavelength selection is set to "all"  
OTDR: management of UHD from SN 9600  
OTDR: improved shift mode when reaching the noise level  
OTDR: correction of slope measurement issue with 20  $\mu$ s pulse and specific cases  
OTDR: improved total loss measurement, especially on short links  
OTDR: improved storage/load of traces with manual measurements  
OTDR: correction of issue on user defined color coding  
OTDR: better management of the file storage editor  
OTDR: improved management of total loss between summary page and standard result page  
OTDR: Add "Auto" in acquisition time, and enable manual adjustment even in "Test auto"  
OTDR: correction issue with real time/change of acquisition parameters. The soft keys were not the correct ones, and the acquisition time was very long  
OTDR: Addition of remote SCPI command for BellCore OTDR format file transfer  
OTDR: When not in traffic detection mode, now stop OTDR acquisition in case traffic is detected, this with a warning  
BidirOTDR: correction of issue when accessing FILE during acquisition  
OFI: better management of "Copy for all" softkey for this function  
LTS : better display of > ORL sign in manual ORL  
LTS : better management of modulation  
CD OTDR: better management of autosave (only when all wavelengths are selected)  
ODM CD: New management of submarine networks  
ODM CD : addition of auto-fit on menu  
ODM CD : The press of "AutoTest" is no longer resetting the alarms nor the wavelength range  
PMD: statistics now up to 1000 measurements  
PMD/AP : suppress results relative to km when distance unknown  
ODM CD/PMD/AP : Addition of « Copy setup » key on ODM module to be able to copy the set-up from one ODM fonction to other ODM functions  
BBS2A: addition of the management of SCL range only  
BBS: when only this module is present, it is however possible now to load FO traces

#### **V4.58**

OTDR: Correction of OEO issue (unit was blocked during fast start/stop of OEO process)  
OTDR: Better management of MR module (unit was blocked during an acquisition)  
OTDR: Better management of OEO alarm thresholds  
ODM MR: First full management of the ODM MR module  
PMD: Correction of issue during trace load  
CD ODM: Correction of calibration issue, which generated discontinuous CD trace on some ODM modules (from SN1040)  
Script: Management of the new generic script

#### **V4.54**

Improved Italian version  
OTDR: lock marker no longer lost after real time  
OTDR: when printing, event number no longer appearing in wrong location  
OTDR: Correction of wrong refresh on summary page followed by wrong values on table of results  
OTDR: correction of firmware failing with quad and penta SRL modules  
CD ODM: Correction of calibration issue, which generated discontinuous CD trace on some ODM modules (from SN1040)

#### **V4.50**

First release for 6000A  
Language, date, time format & contrast changes are immediate (no reboot required)  
For USB stick, addition of an "Eject key" on the File Manager

For the keypad, "Cap" key added, and "Valide" changed to "Enter"  
In Editor window, cursor can be set by mouse click or touchscreen  
File: Sort by name does not depend anymore on filename beginning with caps or lower case  
File: Not permitted characters for filenaming now taken out of the editor  
File: Sort function is now memorized  
File: by selection the first file, then moving the cursor to another file and pressing the > key, all files in between are selected  
File: "USB flash format" key now format the USB stick and not the internal extended memory  
LTS: Improvement of compatibility between MTS/TBERD and smart class products (automatic single wavelength detection)  
Browser: Improvements with USB management, grab focus  
FO File: Link manager for ODM & OEO files  
FO File: directory no longer editable in setup page  
FO File: Comment field is now memorized for every trace  
FO File: Sort by column in link manager (with touchscreen or mouse)  
FO File: Sort now manages correctly names starting with digits  
FO File: management of large directories  
FO File: management of successive directory removals  
LTS: Beep available on modulation  
LTS: New colors, with indication of hardware location  
OTDR: OTDR source with modulation (270, 330, 1k, 2kHz), when modulated source factory option available  
OTDR: improved automatic event detection  
OTDR: improved autoconfiguration  
OTDR: Link ORL now always selected  
OTDR: 4 indexes of Refraction (IOR) can be defined by user, and are memorized  
OTDR: Backscatter coefficient (K) defined by user is memorized  
OTDR MM: New default values are available for IOR and K for 50 & 62.5  $\mu\text{m}$  fiber  
OTDR: Launch cable end is now configurable in measurement parameters  
OTDR: Automatic range in manual mode is now available in acquisition parameters  
OTDR: Addition of meter and feet units (on top of miles, kfeet and km), for distance axis, and cursor values always in meters or feet.  
OTDR: laser source mode selectable by a soft key always on screen  
OTDR: Acquisition time displayed in bargraph  
OTDR: Refresh of OTDR summary page when swapping from Trace to Summary page during acquisition  
OTDR: Reflectance threshold now using < instead of >  
OTDR: New signature of trace with bigger fonts  
OTDR: Improvement of total link loss measurement  
OTDR: Management of the CWDM OTDR5 module  
OTDR: No more curve shift when zooming with mouse  
OTDR: Correction of acquisition issue with SRL module and 500 meters range  
OTDR: Improved step for A-B cursor selection for IOR adjustment  
OTDR: Launch cables are now forced to be connectors (for alarm analysis)  
OEO: OEO with two multimode sor files is now available using two existing files  
OEO: Addition of meter and feet units (on top of miles, kfeet and km), for distance axis, and cursor values always in meters or feet.  
OEO: file auto increment now possible even when modules do not have same lasers  
OEO: Correction of alarm temperature with 1625nm lasers  
OEO: Total loss now averaged in table  
OEO: Launch cables are now forced to be connectors (for alarm analysis)  
OEO: MTS/TBERD 6000 now displayed on the process page  
OEO: Unit no longer freezing when switching off remote unit with datalink still in place  
CD OTDR: Addition of meter and feet units (on top of miles, kfeet and km), for distance axis, and cursor values always in meters or feet.  
CD OTDR: CD OTDR page modified to look like CD ODM page ( $\lambda_0$  and S0 in title bar)  
CD ODM: Improvement on  $\lambda_0$  measurement  
CD OTDR/ODM: No more intempesitive CD alarms when "no alarm" selected  
CD OTDR: Improved print out of formatted page  
CD OTDR: Management of IOR changes



WDM/OSA: Addition of long term monitoring acquisition mode  
WDM/OSA: Y axis now in dBm (not in dB)  
PMD ODM: New high dynamic line on setup page for faster acquisition  
AP: Improvement of AP trace display

#### **V4.06**

Hungaria, Poland and Finland languages added for platform and FO applications  
Improved print action when screen displays trace + table  
Improved datalink stability (also useful for bidirOTDR)  
Fiber file setup: improvement on automatic fiber increment with CD, LTS, ORL functions  
Power meter: better detection of modulation  
PMD: new alarm management for PMD and PMD2  
PMD: improved dynamic range without averaging  
OSA: improved translation on setup menu  
CD ODM: change of filename now possible  
CD OTDR: change of refraction index now possible  
BidirOTDR: improved alarm management  
AP: In case of SCL source use, AP measurement done only on SCL band  
OTDR: Improvement of auto zoom or zoom with touchscreen (vertical axis difference between traces now kept)  
OTDR SRL: correction on some modules having important noise levels  
MTAU4: management of this new module

#### **V4.02**

New ODM module management  
New SRL OTDR module management  
Better autoconfiguration on VSRE, MR, LR and VLR modules  
VSRE: max range now 260km  
OEO OTDR: better launch cable management  
OEO OTDR: better alarm management  
OTDR: better management of DR injection level  
OTDR: improved distance management  
OTDR: when CW source activated, it is no longer stopped automatically  
OTDR: when real time mode activated: it is no longer stopped automatically  
OTDR: better screen color management  
OTDR: addition of summary page (standard and OEO)  
OTDR: resolution now with "high res" and "high dyn"  
OTDR: predefined acquisition times and "real time" now into the acquisition time menu  
CD: saturation warning only displayed once  
LTS: cable ID and fiber ID information now displayed on result page  
Better management when directory is having a large number of files  
FO Autofilenaming is having "\_" instead of "-"  
FO Fiber information page now available on explorer  
Better edition of FO filename during save  
Save action directly available from FO explorer page  
Cursor on a FO file stay in page after a sort change  
The cursor on active FO directory stay in page when entering explorer  
4 help lines for navigation keys now in FO setup/file menus  
Better Russian management  
Better management of print when outdoor mode used

#### **V3.70**

New "Default Filename" softkey  
"Cable Id" now at first level of menu  
OTDR: New real time mode with manual loss, reflectance and ORL measurements with 2 cursors  
"Fiber Code" now "Color Code"  
OTDR: Management of all modules, including MR and VSRe  
Unified total loss calculation with FiberTrace/Cable  
OTDR: Improved automatic measurements  
Warning "Disk write protected" changed to "Selected storage device not present or write protected"

OTDR: Management of LR module  
OTDR: Fibre end detection improvement  
OTDR: manual events now possible after end of fibre  
OTDR: no automatic detection if acquisition aborted before trace display  
OTDR traffic detection improvement  
OTDR: improved alarms for macro bend measurement  
WDM: Add Span information in nm in the Center/Span menu  
WDM: Modification of the alarm management in continuous mode  
WDM: Correction of the alarm detection on Composite power (inversion)  
OSA: Improved splitter compensation on OSAXxx modules  
CD: No key "Measure" when Otdr is active  
Turkish language improvements

### **V3.50**

Improved Italian translation  
OTDR: Management of the LR OTDR module  
OTDR: new autoconfiguration  
OTDR: improved automatic measurements  
OTDR: real time mode indication more visible  
OTDR: improvement on bidirectional OTDR mode  
PMD: Improved auto mode  
PMD: longer distance range enabled

### **V3.30 Version**

New outdoor colour scheme  
Comments are now kept in file menu  
Improved macro  
Sound in case of alarm at the end of the acquisition  
Longer distance range for PMD measurement  
Improved autoconfiguration for OTDR  
Improved macrobend display on OTDR  
Improved bidir OTDR option  
Improvement of PMD on amplified links  
Two sets of alarms now available  
Management of 6000 Light version

### **V3.20 Version**

Integration of SRe, VSR, CD, PMD, WDM, BBS, MTAU modules  
Improvement on VLR OTDR with short pulses  
Macrobend feature for the OTDR function  
Management of source option on VSR module  
Differentiation between "no fiber end found" and "no fiber detected"  
Modification of zoom function  
Better OFI module management (manual ORL, references, concatenation of multi txt files...)  
LTS function with better zeroing  
LTS with autoincrement  
OSA: storage of up to 8 traces during shutdown  
OSA: better total power measurement  
PMD: selection of wavelength range enabled  
New languages: Italian, Czeck, Japanese, Portuguese, Russian

### **V3.12**

First release for 6000  
Management of all current OTDRs

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## **4/ File System Versions**

**V2.88**

New translations: Vietnamese, Danish

**V2.84**

Ability to change VNC password

**V2.78**

File system: Improvement of internal memory management

File: In File Manager, distances of OTDR files are now displayed correctly

File: rename feature no longer fails after copy/paste

Base: Distant disk is now removed when switching ON/OFF the datalink function

**V2.72**

Base: Better management of extended memory with non English mainframe (6000/A only)

**V2.62**

No addition

**V2.60**

Base: Russian language improvement

Base: Improvement of log file capabilities, in case configuration without hard disk

Base: Improvement of virtual keyboard when used with non present functions

**V2.50**

Plug and Play management for USB microscope

Better DHCP management

Management of external USB modem

Directory can now also use only upper case characters

Correction of unit not switching on while powered and off (after a wait period)

The battery charge now stops when operating some limited high power functions

Erase function on disk or harddisk now possible, including partition

Better extended memory management in case of unexpected unit shutdown

**V2.36**

Directory can now also use only upper case characters

Correction of unit not switching on while powered and off (after a wait period)

The battery charge now stops when operating some limited high power functions

Correction of a DHCP client issue

**V2.32**

No addition

**V2.30**

File: Improved USB transfer speed

More USB stick recognition

Faster speed on boot up

Better management of low battery indication (not only <10% but also <12mn of use)

Improved DHCP management

New translation for Norwegian Czech Hungarian Polish

**V2.22**

First release for 6000A

**V2.20**

For non English language FTP use, file names and directories are now shown properly

**V2.10**

Better management of fiber datalink (also useful for bidirOTDR)

Correction of issue when performing firmware downgrade

Improvement on talkset with conference mode  
Correction of a screen saver issue (dark screen after power up)

#### **V2.00**

Better battery management during AC power failure  
Enhanced USB stick format (best management of sectors/clusters)  
Better management of time and date (GMT)  
Better management of unit clock  
Country keyboards are now kept at startup  
No more country issue when printing  
Management of Tcl/Tk  
Addition of the suspend mode

#### **V1.12**

New VNC mode : permanent with password  
Exim (SMTP) running only in Modem or Ethernet Mail mode

#### **V1.10**

Improvement of the auto off function

#### **V1.06**

No addition

#### **V1.04**

Management of Internet Explorer as VNC  
Czech language management

#### **V1.02**

Integration of SRe, VSR, CD, PMD, WDM, BBS, MTAU modules  
Improved fan management  
Better ON/OFF key management  
Better battery management (empty battery now always charging)  
Improved printout with USB printers  
Beep for USB recognition  
Data file transfer through talk set now activated  
New languages: russian, japanese  
Pdf reader now with a virtual keyboard  
Improved screen saver  
Improved FTP management  
Improved touchscreen calibration

#### **V1.00**

First release for 6000

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### **5/ Instrument Setup Versions**

#### **V7.22**

Addition of bidirOTDR option into service data page

#### **V7.18**

No addition

#### **V7.10**

Ability to enter a password to use the unit through VNC  
Improvement of USB key format feature  
In Media utilities 'Disk Erase' function has been improved

#### **V6.08**

PDF file generation through printout function  
Improved transfer of PMD, CD, FOX files using datalink  
Copy/Paste of file is no longer changing initial file date  
Load of pdf files directly from explorer

#### **V5.76**

Base: New battery icon to indicate when battery charger is disabled

#### **V5.58**

Base: No addition for 6000 Platform

#### **V5.56**

Base: Ability to view TXT, XML, HTML and JPEG files with Web Browser.  
Base: Ability to load an application file (ex: an OTDR trace) from the generic file explorer  
Base: NTP management: possibility to configure date and time according to a server via synchronization.

#### **V5.26**

Base: Firmware version analysis before upgrade (control of the firmware version for the right Base Unit)

Microscope : full hotplug management  
Erase function on disk or harddisk now possible, including partition  
FO file: faster management of directories with a large number of files  
The printer icons is now shown with a reduced time  
Base unit : when looking into the options of the base unit, we show grey crosses instead of red crossed when the options are not implemented  
Improved talkset/datalink/bidirOTDR management

#### **V4.58**

The date/time remote commands are now updating the hardware clock  
The time set now start with the exact minute (set the second to 0)

#### **V4.54**

Improved Italian version  
Better management of low battery indication (not only <10% but also <12mn of use)  
Better management of USB key  
Improvement of talkset/datalink management  
File FO: When using the link manager, the number of files is now updated

#### **V4.50**

First release for 6000A  
System hardkey always return to the Instrument setup screen  
Language, date, time format & contrast changes are immediate (no reboot required)  
Addition of a service data screen at the Instrument setup screen  
The unit can now communicate with another unit having another Ethernet subnet  
For USB stick, addition of an "Eject key" on the File Manager  
For USB stick, addition of an icon which highlights the state of the usb driver  
For the keypad, "Cap" key added, and "Valide" changed to "Enter"  
In Editor window, cursor can be set by mouse click or touchscreen  
File: Sort by name does not depend anymore on filename beginning with caps or lower case  
File: Not permitted characters for filenames now taken out of the editor  
File: Sort function is now memorized  
File: by selection the first file, then moving the cursor to another file and pressing the > key, all files in between are selected  
File: "USB flash format" key now format the USB stick and not the internal extended memory  
Print: new automatic filenames when printing to a file  
Print: improvement on printouts with OTDR and CD

#### **V4.10**

VNC password can be changed with remote command  
New function which enables the automatic restart of a unit (usually remote) having issues  
Improvement in usage of Ctrl-Q Reboot from a VNC session  
Improvement of conference mode for talkset and datalink  
VNC password can be changed with remote command  
VFL: CW or 1Hz modes can now be performed  
Date and clock format now mixed in a sub window

#### **V4.02**

Management of the Seiko MPU-L465 thermal printer  
New command to configure next restart as a full restart and not standby mode  
New warning when miscommunication with battery  
Better file management when directory is having a large number of files  
Better Russian management  
No more shutdown when date/time update  
Management of email on basic file explorer  
No more talkset menu when there is no talkset option

#### **V3.70**

Confirmation dialog box pops up when the user want to switch off OSA/WDM module  
When required, hourglass shown while switching of a module  
New VNC icon for multiple users  
Additional Turkish translation

#### **V3.50**

No addition

#### **V3.30**

Management of 6000 Light platform  
New outdoor color scheme  
Improvement on module selection

#### **V3.20**

Virtual printkey now working  
Instrument lockout enabled  
Better management of low battery

#### **V3.10**

First release for 6000

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## **6/ Linux Kernel Versions**

#### **V3.82**

Improved management of USB probe

#### **V3.80**

Microscope: Support of P5000i probe

#### **V3.76**

No addition

#### **V3.72**

New linux kernel for MSAM applications

#### **V3.32**

Bidir OTDR/TS: Improvement of datalink

#### **V3.22**

Better management of talkset/datalink/bidirOTDR

**V3.14*****New driver for USb modem*****V3.12**

File: faster file transfer between internal memory and USB stick  
More USB stick recognition  
Longer OFF time (1s)  
Improvement of talkset/datalink management  
Improvement on USB key  
MSAM: Correction of MSAM directory issue

**V3.02**

Improvement of talkset/datalink management

**V3.00**

First release for 6000A

**V2.30**

File: faster file transfer between internal memory and USB stick  
More USB stick recognition

**V2.20**

No addition

**V2.06**

Improved USB management  
Improved intermittent platform hang-up due to memory  
Correction on source after use of talkset/datalink

**V2.00**

Improvement of talkset and bidirOTDR mode  
Addition of suspend mode

**V1.08**

No addition

**V1.06**

No addition

**V1.04**

VLR OTDR improvement on short pulses

**V1.02**

Modification for WDM/PMD module management

**V1.00**

First release for 6000

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**7/ Microscope Versions****V7.22**

Report function  
Integration of new profiles  
New organization of the softkeys for scope management

**V7.18**

Support of P5000i probe

**V7.10**

No addition

**V6.08**

Microscope: Improvement of file / folder erase function when the microscope is selected. Error message no longer occurs.

Microscope: Improvement of microscope file explorer. The first line is now correctly displayed.

Microscope: Standard explorer now allows trace loading

**V5.74**

No addition

**V5.58**

No addition

**V5.56**

Microscope: New "quick save" key under result page which will automatically save with the defined setup, done on file menu.

Microscope: When the Scope function is selected on the System page, pressing the Script key no more display the Scope results page.

**V5.26**

Improved translation

**V4.58**

No addition

**V4.54**

No addition

**V4.50**

First release for 6000A

Language, date, time format & contrast changes are immediate (no reboot required)

Display refresh now 2 times faster

Improved hot plug management

**V4.06**

Improved hot plug management with microscope

**V4.00**

No addition

**V3.70**

No addition

**V3.50**

Better microscope detection (connection/disconnection)

**V3.30**

Czech language management

**V3.20**

Italian, Russian, Japanese language management

**V3.12**

First release for 6000

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**8/ System Setup Versions**



[V3.70](#)  
[V3.50](#)  
[V3.30](#)  
[V3.20](#)  
[V3.12](#)

***After the V3.70 version, System Setup version was integrated into Instrument Setup version***

***V3.70 Version 20/07/2007***

Domain name can now be empty  
DNS server IP address factory default set to 127.0.0.1 to reduce DNS timeout  
New VNC mode : permanent with password  
Exim (SMTP) running only in Modem or Ethernet Mail mode  
New System setup Factory Default key notably to be able to "repair" an inconsistent network configuration

***V3.50 Version 14/03/2007***

New generic file manager

***V3.30 Version 09/11/2006***

New outdoor color scheme

***V3.20 Version 09/11/2006***

New languages: Czeck, Japanese, Russian

***V3.12 Version 23/06/2006***

First release for 6000

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**3/ Boot Versions**

***V3.10***

Improvement of internal memory management

***V3.06***

No addition

***V2.40***

Improvement of internal memory management

***V2.36***

Improved management of talkset/datalink/bidirOTDR  
Improved bootup with very low power on battery

***V2.30 Version 29/10/2008***

Detection of wrong platform firmware version (6000A)

***V2.20 Version 29/07/2008***

First release for 6000A  
Improved USB management

***V2.08 Version 23/05/2008***

Improved USB management  
Correction of issue when performing firmware downgrade

***V2.00 Version 14/12/2007***

Improved talkset and bidirOTDR management  
Improvement of unit clock  
Improved OTDR timebase

**V1.10 Version 07/06/2007**

Management and improvement of the LR OTDR module  
Improvement on OTDR LR/VLR range settings

**V1.04 Version 01/12/2006**

Better battery management during backup

**V1.02 Version 20/10/2006**

Improvement of USB upgrade  
Better ON/OFF management

**V1.00 Version 21/07/2006**

First release for 6000

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