

E7495A/B Base Station Test Set Firmware History

Rev: 17

March 2005

Note: This list is provided for informational purposes only and is subject to change.

A.03.20 (10 March 2005)

New Features:

- Nortel CDMA Test Software (Option 330)
- Flexible Limit Lines and Limits added to the following Screens: Return Loss, Distance to Fault, Spectrum Analyzer, and Channel Scanner
- Flexible Limits added to the following Screens: 2 Port Insertion Loss, CDMA Analyzer, and CDMA Over Air Analyzer
- Added 3 new detector types to the Spectrum Analyzer: Sample, Average, and Negative Peak
- Added GSM OBW metric to the GSM TX Analyzer

Defect fixes / improvements / other changes:

- Improved the OBW Occupied Power measurement accuracy by using the Average detector
- Fixed an issue with formatting the PCMCIA and CF media cards
- Resolved an issue with Saving Data and Printing Screen results to the PCMCIA and CF media cards
- Fixed an intermittent lockup caused by switching Source mod formats repetitively

A.03.10 (15 September 2004)

New Features:

- GSM Analyzer (Option 230)

Defect fixes / improvements / other changes:

- Fixed the Save State function to allow long save state names to prevent measurement server errors
- W-CDMA (UMTS) Over Air measurement improvements:
 - Better decode of signals with low pilot power (as in Test Model 4)
 - Improved the Multipath Power and Pilot Dominance measurements
 - Allow display of the PSCH and SSCH in the control channel view display when the multipath power exceeds the Valid Measurement Setting

A.03.00 (01 July 2004)

New Features:

- Occupied Bandwidth measurement
- W-CDMA (UMTS) Over Air measurement (Option 250)
- Interference Analysis (Option 270)
- Faster W-CDMA (UMTS) measurement
- Print to light background (**System** → **Save Data Setup** → **Light Background**)
- Range Up/Down control in Spectrum Analyzer, Channel Scanner, and Adjacent Channel Power
- Save trace data (**System** → **Save Data Setup** → **Include Trace** toggles on/off)
- Running Average count
- Codogram screen added to W-CDMA (UMTS) & W-CDMA (UMTS) Over Air measurements
- Remote Graphical User Interface of E7495A/B using a PC
- Implemented a more reliable Firmware upgrade process
- Implemented an improved Flash File System (JFFS2) for increased reliability
- Added E-GSM and R-GSM channelizations

Defect fixes / improvements / other changes:

- Copyright on Splash Screen and via **System** → **System Stats** → **Copyrights**

- Can now turn on Signal Generator after Preset
- RF IN LOSS now handled correctly on Preset
- Fixed Spectrum Analyzer Start/Stop Frequency over/under frequency entry errors
- Can now enter negative frequency offsets for Delta Markers

A.02.12 (14 April 2004)

Defect fixes / improvements / other changes:

- W-CDMA measurement will now work with DTX signals.
- Modified the Firmware update process to reload the DSP code during the Firmware upgrade.
- Fixed some problems as a result of going into sleep mode (ADS board compatibility).

A.02.11 (4 February 2004)

Defect fixes / other changes:

- Instrument boot-up increased by 2 seconds to keep GUI from occasionally hanging during startup.

A.02.10 (16 January 2004)

New Features:

- Codogram added to CDMA Analyzer and CDMA Over the Air (Options 200 and 210)
- Group Max averaging has been added to the spectrum analyzer, channel analyzers, and antenna measurements.
- Help system now available for submenu buttons on W-CDMA Analyzer (Option 240) and Adjacent Channel Power (Option 220) (minimal)
- Noise correction now available for Adjacent Channel Power (Option 220).
- Simultaneous operation of CW and complex signal generator now available in Spectrum Analyzer Channel Analyzers and Antenna Measurements.
- Faster sweep speed in Spectrum Analyzer mode
- Frequency panning (Agilent patented feature) now added to Spectrum Analyzer
- Distance to Fault display resolution improvement
- Improved Time Gating in Distance to Fault mode (0 dB Step response at 0 distance after calibration)
- Distance to Fault display now shows the DC component and has 4 fault indicators.
- Open cables added as a selection in Distance to Fault measurement.
- Graphic User Interface (GUI) responsiveness improvement (all measurement modes)
- New Power save mode with auto-dimming display brightness timer
- Battery Reconditioning now available via front panel interface (only available on instruments with serial numbers US43410240 and later)
- New Battery Status Metrics (only available on instruments with serial numbers US43410240 and later)
- Internal time base can now be field adjusted via front panel using GPS signal

Defect fixes / improvements / other changes:

- W-CDMA code domain power marker to next peak now works properly (Option 240).
- Channel Scanner step size now saved with Save State (Option 220).
- Channel Scanner Meas Time and Meas BW are now restored with a Recall State (Option 220).
- Save Data and Print Screen will prompt the user if a file is going to be overwritten.
- Agilent Technologies added to Print Screen images
- The default Recall State changed from a default of "Powerup" to "User"
- Problem of help system getting lost in E1/T1 (Options 700 and 710) and Channel Scanner (Option 220) now corrected.

- External loss buttons now have on/off toggle.
- Fraction channel numbers now displayed when toggling from a frequency that doesn't correspond to a channel.
- A decimal point can now be entered for Adjacent Channel Power offsets (Option 220).

A.02.00 (15 October 2003)

New Features:

- Support for E7495B hardware
- W-CDMA (UMTS) Analyzer (Option 240)
- E1 Analyzer (Option 710)
- DC Bias – 12 volt output (E7495B only, Option 300)
- Adjacent Channel Power Measurements added to Channel Scanner (Option 220)
- Additional External Reference input frequencies (E7495B Only):
1 MHz, 2.048 MHz, 4.95 MHz, 13 MHz, 15MHz
- Group averaging type (on most receiver measurements)
- Sub-hertz frequency error resolution on Channel Scanner

Defect fixes / improvements / other changes:

- Fixed some marker problems for Spectrum Analyzer mode
- Fixed signal resolution problem in Spectrum Analyzer mode
- Fixed channel scanner frequency list entry defect
- Fixed some problems as a result of going into sleep mode
- Lowered the default T1 volume

A.01.60

New Features and Enhancements:

- Single Port Insertion Loss
- Antenna Measurement improvements
- File Name on Print Screen
- Channel Scanner Peak Power
- Improved Upgrade Process
- T1 Sound and Volume
- Insertion Loss Range vs. Accuracy Optimization
- Help System Enhancements
- Spectrum and Channel Scanner Auto Range Hold

A.01.51

New Features and Enhancements:

- Made setting Signal Generator amplitude work correctly when RF Out Loss was also entered

A.01.50

New Features and Enhancements:

- CDMA2000 modulation for Signal Generator
- GPS Receiver always on
- GSM 950 Channel Standard added
- Channel standard coupled to the format in the channel scanner
- Interference Rejection has been added to the antenna measurements

- Higher and low sensitivity setting added to the Spectrum Analyzer mode and Channel Scanner
- Improved T1 response time