E7495A/B Base Station Test Set Firmware History

Rev: 18
June 2005
Note: This list is provided for informational purposes only and is subject to change.

A.04.00 (15 June 2005)

New Features:
• 1xEV-DO Analyzer (Option 205)
  • 1xEV-DO Forward Link demodulation measurement capability
  • 1xEV-DO Reverse Link Signal Generator capability
• Improved Distance To Fault measurements
  • Added Start/Stop Distance settings to allow user to zoom in to a section of feed line
  • Added the option to select between 256, 512, or 1024 data points for optimum resolution
  • Several cable types added
  • Added VSWR results to metrics display
•Updated the Save Data capture to include start/stop distance, calibration frequencies, and cable type information
• Added Spurious Emissions mask for cdma2000 and 1xEV-DO
• The MAC address is now displayed on the startup screen
• Enhanced Calibrations for DTF, Return Loss, and One Port Insertion Loss
  • Allows for a common calibration between the DTF, Return Loss, and 1-Port measurements
  • Allows users to select the Start/Stop calibration frequencies to cover the frequency range of the Distance to Fault, Return Loss, and One Port Insertion Loss Measurement Screens.

Defect fixes / improvements / other changes:
• Fixed: Intermittent lockup issue when switching source modulation formats rapidly
• Fixed: WCDMA Amp Capacity was being reported as 200% on revisions A.03.10 and A.03.20
• Resolved: Spectrum Analyzer Limits Span setting would not update with the RPG
• Fixed: Two Port Insertion Loss Source Level did not change when switching from Auto to Manual until a new value was entered.
• Fixed: Pass/Fail indicator still present after a preset.

A.03.20 / A.03.21 (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.
• Upen 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