

89600 Software Revision History

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Version 12.00 (released April 2010)

- Option 200, Basic VSA
 - Support for Microsoft Windows 7 Professional, Enterprise, or Ultimate (32 or 64 bit)
 - Scroll bars added to tabular data that exceeds current trace window size.
 - Support of N5106A file format.
- Option 300, Hardware connectivity
 - Support for Multi-Channel Digital Inputs (e.g., with Agilent Logic Analyzer 16800, 16900, RDX, etc)
 - Support for InfiniiVision 7000B Series Oscilloscopes
 - DSO/MSO 7012B, 7014B, 7032B, 7034B, 7052B, 7054B, 7104B
- Option AYA, Vector modulation Analysis
 - New Alpha QPSK modulation format supported for EDGE Evo Measurements
 - Preset to Standard selections for Digital Video updated to match current standards
- Option B7U, WCDMA & HSPA+ modulation analysis
 - HSPA+MIMO analysis (combined HS TrBloc1 and HS TrBloc2) for 2-channel hardware
 - HS TrBloc2 analysis for single channel analysis hardware
- Option B7Y, IEEE 802.16e OFDMA modulation analysis
 - Un-normalized channel frequency response added
- Option BHD, LTE FDD modulation analysis
 - Updated to December 2009 of 3GPP LTE Standard (v.8.9.0 of TS 36.211)
 - Decoding of all downlink channels
 - Automatic downlink configuration using control channel decoding
 - New traces added
 - Decoded Symbols Table
 - DL Decode Info Table
 - UL Spectrum Flatness 3GPP-defined pass/fail mask added to 'Per Slot Channel Frequency Response' trace
 - UL In-band Emissions with 3GPP-defined pass/fail mask
 - UE-specific RS Weights
 - Reference Signal Rx Quality (RSRQ) added to error summary
 - Equalizer applied to UL modified to conform with standard
 - Multi-carrier filtering
 - Un-normalized channel frequency response added
- Option BHE, LTE TDD modulation analysis
 - Updated to December 2009 of 3GPP LTE Standard (v.8.9.0 of TS 36.211)

- Decoding of all downlink channels
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- Analysis of UE-specific RS
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Version 11.21 (released November 2009)

- Option 200, Basic VSA
 - Sample recordings repaired for use with demo licensing

Version 11.20 (released November 2009)

- Option 300, Hardware connectivity
 - Support for N9030A (PXA)
 - Support for DSO/MSO9064A scopes
- Option AYA, Vector modulation Analysis
 - Selection to align I & Q with Offset QPSK

Version 11.00 (released August 2009)

- Option 200, Basic VSA
 - User controlled bit order for symbol table data
 - New organization of demonstration signals and setup files provided for easier recall
- Option 105, Dynamic Link to EESof ADS
 - Support for EEsof SystemVue
- Option 300, Hardware connectivity
 - Support for N9000A (CXA)
 - Support for 9000 series scopes
 - Support for 701x series scopes
 - Support for EEsof SystemVue

- Support for N5344A DigRF v3/v4 Analyzer (RDX platform)
- Option AYA, Vector modulation Analysis
 - GSM/EDGE/EDGE Evo modulation analysis added
 - Support for two channel flex demod (same demod parameters on both channels)
- Option B7T, cdma2000 & 1xEV-DV modulation analysis
 - CCDF/CDF/PDF measurement results added
- Option B7U, WCDMA & HSPA+ modulation analysis
 - CCDF/CDF/PDF measurement results added
 - HSPA+MIMO analysis added (beta version)
- Option B7W, 1xEV-DO modulation analysis
 - CCDF/CDF/PDF measurement results added
- Option B7Y, IEEE 802.16e OFDMA modulation analysis
 - Detected Allocations Time trace added
 - Automatic DIUC0 detection when DL-MAP decoding is performed
- Option BHC, RFID modulation analysis
 - New default bit order in Hex Demod Bits trace based on the standard selected
 - Minimum Value for t3, t4, and t6 displayed in Summary NFC table
- Option BHD, LTE FDD modulation analysis
 - Modified to support March 2009 (v8.6.0) release of the LTE standard
 - Up to 4x4 MIMO DL analysis supported
 - Support for multi-layer results
 - Improved uplink auto detection
- Option BHE, LTE TDD modulation analysis
 - New option
 - March 2009 (v8.6.0) release of the LTE standard
 - Up to 4x4 DL MIMO analysis supported

Version 10.01 (released April 2009)

- Option 300
 - Support for DSO90254A
- Option AYA
 - Improved stability and Pulse/Sync search of EDGE(RX) demodulation
- Option BHC
 - Improved the stability of RFID demodulation

Version 10.00 (released March 2009)

- Option 200
 - Support for 3 and 4 channel measurements with oscilloscopes
 - Selective floating license support
 - Client can select the options to be checked out from server

- Option 300
 - Support for dual MXA/EXA hardware configurations
 - Decimation of time data from oscilloscopes added to hardware driver
 - Allows for longer measurement time records
 - Range coupling for multi-channel configurations
- Option AYA
 - Star-16/32 QAM modulation analysis
 - CPM (FM) modulation analysis
 - Improved GSM demodulation with narrow BW (receiver IF measurements)
 - EDGE (RX) modulation analysis
 - New algorithm that allows narrow BW (receiver IF measurements)
 - New Standard Presets
 - APCO-25 P2 (HCPM)
 - APCO-25 P2 (HDQPSK)
 - MIL-STD 188-181C:CPM(Opt21)
- Option B7Z
 - Support for 3x3 and 4x4 MIMO measurements

Version 9.02 (released November 2008)

- Option 300
 - Support for changes to MXA BBIQ hardware driver
 - Requires xSA A.01.73 or greater
- Option B7U
 - Improved algorithm for demodulation of 64 QAM channels

Version 9.00 (released September 2008)

- Option 300
 - Support for MXA BBIQ Inputs
 - Support for wideband PSA + Infiniium configuration
 - Acqiris installer available on Installation CD
- Option B7Y
 - Single input channel analysis of Ant-1 (or Ant-2 or Ant-3) transmissions which may not contain a preamble or any non-MIMO zones
 - Support for allocated-but-unused slots in DLPUSC
 - Support DL-PUSC dedicated pilots mode
 - Average reject based on SyncCorr or CPE values
 - I/Q Impairment compensation
 - Improved measurement robustness for signals with preamble AM-AM distortion
 - Data Burst “Total” Power
- Option BHB
 - Automatic Preamble Type detection
- Option BHC

- Support for ISO 14443 Type B and ISO 15693
- Support for tag phase measurement
- Support for higher level decode
 - Decode of command, response type identification
 - CRC decode
 - Burst Decode Summary
- Hex Display of Demod Bits
- Option BHD
 - Support for March 2008 release
 - Single channel MIMO Analysis
 - Graphical user mapping edit feature, color-coded based on channels
 - Transmit Diversity Decoding capability
 - Support for 1, 2, or 4 antennas

Version 8.00 (released December 2007)

- Option 200
 - Support for Vista Business and Vista Ultimate operating systems
 - New installer
 - Agilent IO Libraries version 15.0
 - Updated licensing software
 - Automatic frequency point setting based on time record length
- Option 300
 - Support for Acqiris digitizers
 - DC222, DC252, DC282, DC438, DC440
 - Support for 90000 series Infiniium scopes
 - 90404, 90604, 90804, 91204, 91304
 - Support for 7000 series InfiniiVision scopes
 - 7032, 7034, 7052, 7054, 7102, 7104
- Option B7U
 - Added HSUPA modulation analysis
 - Release 7
- New Option BHD
 - LTE modulation analysis
 - July 2007 release

Version 7.20 (released August 2007)

- Option 300
 - Support for EXA, N9010A, signal analyzers
- Option B7U
 - Increased accuracy of T-Trigger
- Option B7Y

- Support for STC/MIMO
- Support for new N7615 Signal Studio file format
- Defect fixed that reported incorrect RSSI with 512 FFT signals
- Option BHB
 - Time scale behavior change. Hopping frequencies no longer included in scaling.
- Option BHC
 - Support for standards ISO18092 and ISO14443 Type A.

Version 7.01 (released March 2007)

- Option B7Y
 - Defect fixed that causes the software to crash when auto-detect is selected with 512 FFT
 - Defect fixed, Incorrect CDMA codes reported with 512 FFT

Version 7.00 (released March 2007)

- Option 200
 - Auto-range feature available as macro
 - IF/Playback Mag Trigger holdoff region
 - FlexLM version 10
 - HDF5 file format support
- Option 300
 - Support for 16800 Series Logic Analyzers
 - Support for 6000L series oscilloscopes
 - DSO6014L, DSO6054L, DSO6104L
 - Support for N8201A-H01/H02
- Option AYA
 - Pi/8 D8PSK modulation analysis
 - Low SNR mode
- Option B7Y
 - FCH/DLMAP decoding
 - DLMAP driven measurement auto-configuration
 - ULMAP decoding
 - Uplink measurement auto-configuration
 - Capture of DLMAP/ULMAP into MapFile
 - DCD decoding

- UCD decoding
- AAS and STC measurements
- Single TX analysis of two antenna STC/MIMO for DL-PUSC
- Single TX analysis of collaborative MIMO for UL-PUSC
- DL-AMC dedicated pilots mode
- UL-PUSC disable subchannel rotation mode
- FFB region analysis
- User defined FFB regions
- RNG region analysis
- Enhanced frequency tracking
- Preamble RCE and status indicator
- Modulation PRBS derotation
- Option B7Z
 - New phase tracking algorithm
 - L-SIG and HT-SIG EVM
 - Decode and display L-SIG fields
 - Burst type summary
 - Duplicate Legacy Mode support
 - Increased cyclic shift range
- Option BHB
 - Band groups added to Preset to Standard
 - TFC8-10 support
 - Automatic preamble type mode
 - Automatic TFC mode
 - Automatic data rate mode
 - Automatic result length mode
 - New trace results
 - Low/Mid/High band CPE
 - Composite/Low/Mid/High Inst/Avg Channel Frequency Response
 - Composite/Low/Mid/High Equalizer Impulse Response
 - Composite Preamble Correlation
 - Composite Preamble Frequency Error
 - Composite Preamble EVM/Measured/Reference
 - Composite Symbols

- Packet Summary
 - Band Packet Summary
 - Composite Info Summary Table
- New Option 106
 - Dynamic Links to The MathWorks Simulink Simulation and Model-Based Design
- New Option BHC
- RFID Modulation Analysis

Version 6.31 (released November 2006)

- Option 300
 - Support for MXA, N9020A
 - Support for MXG, N5182A
 - Modifications to support firmware changes in 6000 series oscilloscopes (v3.51)
- Option B7Y
 - Improved measurement stability on signals with moderate/high phase noise

Version 6.30 (released August 2006)

- Option 200
 - User files migrated out of Program Files directory in preparation for Vista requirements
- Option 300
 - Support Logic Analyzer Signal Extractor, B4602A
 - Requires logic analyzer version 3.5 or greater
 - GPIB support for 6000 series scopes
 - Requires firmware 3.0 or greater
- Option AYA
 - DVB 128QAM and DVB 256QAM modulation analysis
- Option B7Y
 - Support for new N7615A Signal Studio file format
- New option BHB
 - MB-OFDM (MultiBand OFDM, WiMedia) Modulation Analysis

Version 6.20 (released March 2006)

- Option 200
 - New spectrogram display capability
 - New spectrogram marker capability
 - Additional toolbars available
 - Root Raised Cosine (RRC) band shape filters available for ACP Markers
- Option 300
 - Support for PSA USB interface
 - Support for PSA option 110 preamp
 - Support PSA option HY7 70 MHz IF output
 - Support for 6000 series oscilloscopes
 - DSO6102A, MSO6102A
 - DSO6104A, MSO6104A
 - DSO6052A, MSO6052A
 - DSO6054A, MSO6054A
 - DSO6032A, MSO6032A
 - DSO6034A, MSO6034A
 - DSO6012A, MSO6012A
 - DSO6014A, MSO6014A
 - Support for 8000 series oscilloscopes
 - DSO8104A, MSO8104A
 - DSO8064A, MSO8064A
 - Support for 80000B series oscilloscopes
 - DSO81304B, DSO81204B
 - DSO81004B, DSO80804B
 - DSO80604B, DSO80404B
 - DSO80304B, DSO80204B
 - Support for Logic Analyzer triggering
 - Increased post trigger delay available with Infiniium
 - Fixed a trigger defect that affected recordings from wideband PSA's
 - Support for N4010A with 40 MHz bandwidth
 - Support for LXI hardware
 - N8201A, N8221A
 - IO Libraries version 14.1

- Option AYA
 - 16/32APSK modulation analysis
 - Improved detection algorithm for GMSK with BT < 0.2
- Option B7X
 - Support for 3GPP TDD 1.28 Mc/s option, Release 5
 - Midamble Code ID detection
 - TD-SCDMA HSDPA 8PSK and 16QAM modulation formats
 - Automatic detection of code channel modulation type with manual over-ride
- Option B7Y
 - Conforms to ratified standard IEEE 802.16e
 - Additional permutation types
 - DL - FUSC, OFUSC, AMC
 - UL - OPUSC, AMC
 - Additional FFT sizes
 - 128, 512, 2048
 - DL PUSC Zone Boosting
 - UL PUSC with CDMA ranging
 - New RCE (EVM) Metrics
 - Unmodulated RCE
 - Data RCE
 - Channel Estimate + Pilots equalization mode
 - Improved Zone and MapFile editing
 - New IQ impairments estimation
 - Added UL SyncCorr result
 - PRBS mismatch detection
 - Presets for common profiles
 - Signal Studio OFDMA setup file import
- New option B7Z
 - 802.11n Modulation Analysis
- New option BHA
 - TEDS (TETRA Enhanced Data Services) Modulation Analysis
- 89607 WLAN Test
 - Spectral mask test parameter added to limit hardware bandwidth

Version 6.10 (released June 2005)

- Option 200
 - Limit lines
 - Expanded operating ranges allows narrower RBW settings, narrower spans, and longer main time lengths.
 - 204801 and 409601 frequency points added
 - Software decimations allowed increased from 8 to 10
 - Option 300
 - Support for E4443A-122 and E4445A-122
 - 80 MHz wideband IF
 - Support for E4440A-140, E4443A-140, and E4445A-140
 - 40 MHz wideband IF
 - Support for E4447A
 - Support for 5483xB/D options 160, 320, and 640
 - 16, 32, and 64 MB memory options
 - Additional Infiniium measurement hardware support
 - DSO80804A, DSO81004A, DSO81204A, and DSO81304A
 - Support for 1680, 1690, and 16900 series Logic Analyzers
 - IO Libraries version 14
 - Option AYA
 - 512 QAM modulation analysis added
 - 1024 QAM modulation analysis added
 - ZigBee modulation analysis added
- Option B7R
 - RRC reference filter selection added for DSSS analysis
 - Improved algorithm for 802.11a IQ gain imbalance and IQ quadrature skew
- 3G modulation analysis option changes
 - Option B7N removed
 - Available as an ordering convenience bundle that consists of options B7T, B7U, B7W, and B7X
 - Option B7T, Modulation Domain Analysis for cdma2000 and 1xEV-DV added
 - Option B7U, Modulation Domain Analysis for W-CDMA (3GPP) and HSDPA added
 - Option B7W, Modulation Domain Analysis for TD-SCDMA added

- Midamble synchronization added
 - Option B7X, Modulation Domain Analysis for 1xEV-DO added
- New option B7Y
 - 802.16 OFDMA modulation analysis
- 89607 WLAN Test
 - RRC reference filter selection added for DSSS analysis

Version 5.30 (released December 2004)

- Option 200
 - Occupied Bandwidth marker
 - Adjacent Channel Power marker
 - Support for import of Matlab 7.0 file format
- Option 300
 - Support for N5110B
 - Support for 54852B
- Option B7R
 - Presets added
 - IEEE 802.11j 10 MHz
 - IEEE 802.11p DSRC
- New option B7S
 - 802.16-2004 OFDM modulation analysis
- 89607 WLAN Test
 - Changed test plan titles

Version 5.21 (released August 2004)

- Option 300
 - Support for E4440A option 122
 - 80 MHz wideband IF
 - Extended calibration support for E4440A-122
 - Fixed an intermittent cal failure problem with PSA+89611 hardware configuration

Version 5.20 (released February 2004)

- Option 200 enhancements
 - N5510A file format support
 - save trace or recording
 - recall recording
 - Six trace display format
 - Improved WaitForMeasDone method
- Option 300
 - Support for N4010A
 - Channel parameter coupling in I+jQ mode
- Option B7N
 - 1xEV-DV modulation analysis
 - HSDPA modulation analysis
 - 3G modulation analysis updates to track standards
- Option B7R
 - Modulation analysis presets
 - 802.11a Turbo Mode
 - ASTM-DSRC
- 89607 WLAN Test
 - Improved test setup time

Version 5.01 (released November 2003)

- Option 200
 - A special mechanism has been added to make average restarts faster under limited measurement conditions. This speeds measurement systems that do not change setup parameters often but that rely heavily on averaging
- Option 300
 - The center frequency can now be set as low as 30 MHz (the previous lower limit was 36 MHz) in the RF band for the 89640 and 89641. This allows analysis of wider bandwidth signals in the 36 MHz region
 - Support was added for sources with upgraded internal baseband generators. The E4438C ESG is now supported with option 601 and 602. The E8267C PSG is now supported with option 602. Sources with older options 001 and 002 are still supported

- Several defects that could affect 89601A operation with Infiniium scopes have been fixed
- A calibration file has been added for the 54833A scope. This prevents the CAL? trace indicator from being displayed erroneously
- When the 89601A that is running embedded in an Infiniium scope in two channel mode is preset, it no longer erroneously leaves channel two in 1 Mohm
- 89607 WLAN Test
 - Updated to allow users to compensate for a reference clock frequency offset when used with an Infiniium scope

Version 5.00 (released June 2003)

- Base product
 - Support for floating network licenses using FlexLM
 - The 89640 and 89641 VXI systems now support a second RF channel. The two RF channels share the same LO signal to 2700 MHz. Above 2700 MHz they share a common reference signal
 - Support for 54853A, 54854A and 54855A Infiniium scopes
 - A new "User Rate" mode has been added to the Infiniium scope Sample Mode selections allowing the user to specify the sample rate
 - Support for ESA-H70 + 89611 hardware configuration
 - Support for ESA-H70 + 5483x Infiniium scope configuration
- Option B7R
 - DSSS modulation analysis now allows a Gaussian Reference Filter with programmable BT setting and it provides Symbol Clock Error as a measurement result
 - OFDM modulation analysis now provides IQ Gain Imbalance and IQ Quadrature Error as measurement results
 - WLAN Test application support for 802.11b signals. You are now able to perform standards compliance testing on 802.11a/b/g signals with this application
- Option changes
 - Option 100 removed
 - Option 200, core software added
 - Option 300, hardware connectivity added
- 89604 Distortion Suite
 - Support added for 2 channel I+jQ measurements
- New product 89607 WLAN Test

- This allows customers to order WLAN Test as a standalone application without having to purchase 89601-B7R
- Windows NT 4.0 support ended with this version release

Version 4.01a (released May 2003)

- Base product
 - Fixed a defect that caused calibration failures when used on a non-English language PC

Version 4.01 (released April 2003)

- Base product
 - I+jQ measurements have been improved by better compensation of dc offsets for VXI hardware configurations that utilize the E1439 ADC. This includes the 89611A, 89640A and 89641A
- Option B7N
 - TD-SCDMA modulation analysis adds midamble analysis, display of pilot and midamble symbols and several new “Advanced” parameters
- Option B7R
 - The out-of-band noise rejection has been improved in the EVM computations for WLAN-OFDM demod mode. This improves the EVM reported by up to 3 dB, depending on the measurement bandwidth and the amount of noise in the signal
 - There is a new “Equalizer Training” parameter on the Advanced tab of the Demod Properties dialog in WLAN-OFDM demod mode. This provides the ability to initialize the OFDM equalizer from the entire burst instead of just the burst preamble. This can improve the EVM reported by up to 2 dB
 - There is a new “Preamble Frequency Error” trace available in WLAN-OFDM demod mode. This trace shows the instantaneous frequency error during the preamble of the OFDM burst

Version 4.00 (released December 2002)

- Base product
 - Second baseband/IF channel measurement hardware in 89611, 89640, and 89641
 - Additional Infiniium measurement hardware support (54830/31/32D)
 - Additional PSA measurement hardware support (E4446A and E4448A)
 - Support added for PSA option 1DS (preamp)
 - Support added for cal files embedded in 89605B and E2731A

- Extended calibration for VXI based hardware systems
- Enhanced spectrogram markers
- Windows XP support
- 82350B PCI to GPIB support
- E5810 Lan to GPIB support
- 82357A USB to GPIB support
- Fixed cal failures in 89611+PSA systems
- Option B7N
 - TD-SCDMA modulation analysis
 - 1xEV-DO modulation analysis
- Option B7R
 - 802.11b/g modulation analysis
 - WLAN test application for 802.11a standards based testing
- New product 89604 Distortion Suite

Version 3.02 (released September 2002)

- Base product
 - Fixed spectrogram buffer allocation for computers with > 1G of memory
 - Fixed intermittent cal failure in VXI systems

Version 3.01a (released May 2002)

- Base product
 - Fixed a defect with floppy disk file transfers that was introduced in version 3.00

Version 3.01 (released March 2002)

- Base product
 - 89641A measurement hardware support
 - ESA measurement hardware support
 - Additional Infinium measurement hardware support (54830/31/32B and 54846A/B)
 - E4438C support
- Option 105
 - Support for ADS 2002

Version 3.00 (released November 2001)

- Base product
 - 89611A measurement hardware support
 - PSA measurement hardware support
 - Infiniium measurement hardware support
 - E4406A option B7C (baseband IQ input) measurement hardware support
 - Center frequency changes allowed in channel 1 + j channel 2 mode
 - External tuner display corrections
- Option AYA
 - 128 QAM modulation analysis
 - D8PSK modulation analysis
- Option 105
 - Source component added to stream data into ADS
 - Support for ADS 2001
- New option B7R
 - 802.11a modulation analysis
 - HIPERLAN/2 modulation analysis

Version 2.00 (released June 2001)

- Base product
 - Spectrogram displays
 - E4406A measurement hardware support
 - Link to ESG-D
 - E9850A embedded VXI PC support
 - E3238S time capture file support
 - External IQ downconverter correction capability
 - E1438/E1439 trigger enhancement support (requires 'A' models with serial number prefix US4114 or greater)
 - 89605B/89606B support
- Option AYA
 - EDGE modulation analysis
 - 8 and 16 FSK modulation analysis
 - IQ gain imbalance and quadrature skew measurement results
- Option 105

- Multiple analyzers within ADS simulation supported
- 89600/ADS dataset compatibility
- New option B7N
 - 3GPP forward link modulation analysis
 - 3GPP reverse link modulation analysis
 - CDMA2000 forward link modulation analysis
 - CDMA2000 reverse link modulation analysis

Version 1.01 (released October 2000)

- Support added for Windows2000

Version 1.00 (released June 2000)

- Initial release.