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Agilent Technologies

Agilent Advisor 15.0.0 Release Notes

The Agilent Advisor 15.0.0 release offers increased functionality and performance analysis in the areas of LAN, WAN, ATM, and Gigabit network analysis. The Agilent Advisor software release, with the accompanying modules and/or undercradles, will enhance your productivity by simplifying the troubleshooting and optimization of your networks.

These release notes contain information about new features and enhancements for ATM, WAN, LAN, and Gigabit since the 14.0.0 release, including:

- 15.0.0 Supported on "D" and "E" Advisor Models, on page 2
- Hardware and Software Requirements, on page 3
- WAN, ATM, and LAN — New Features, on page 4
- Voice Quality Tester — New Features, on page 5
- Protocol Decodes for 15.0.0, on page 6
- VNC (Virtual Network Computing), on page 7
- WAN 15.0.0 Fix and Help Change, on page 8
- For Further Information, on page 9

The Advisor Supports 3G Test Software Products

These 3G Test Software products now ship with the Agilent Advisor LAN, WAN, and ATM:

- 3G CDMA 2000 Test Software (J5488A)
- 3G UMTS W-CDMA Test Software (J5458A)

See J5488A 3G CDMA 2000 Test Software (LAN, WAN, ATM), on page 4 for details.

Agilent Technologies is committed to customer satisfaction. If you have any problems with the Agilent Advisor, please call 1-800-452-4844 in the United States or call your local Sales Office outside the United States.

5971-5051

June 2002
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15.0.0 Supported on "D" and "E" Advisor Models

The Agilent 15.0.0 Release is supported on these Agilent "D" and "E" Advisor models:

- J2300D/E WAN Mainframe
- J3446D/E Fast Ethernet LAN Mainframe

Software Not Supported on "C" Models Without Upgrade

Beginning with the previous release (14.0.0), all future Advisor software releases will support the J2300D/J3446D and J2300E/J3446E, and any future models, but will not support the older "C" models unless you upgrade your "C" Advisor.

If you want to continue using software releases on your "C" Advisor hardware, you must order one of the appropriate hardware upgrade kits listed here:

- J4610E — J2300C Enhancement — no SVGA
- J4611E — J2300C Enhancement — with SVGA
- J4612E — J3446C Enhancement — no SVGA

Ordering the upgrade kit is a very cost-effective way to upgrade to the performance of the J2300E/J3446E and continue using software releases 14.0.0 and higher.

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Hardware and Software Requirements

The minimum operating system requirements for this release include an Agilent Advisor with Windows 98 Second Edition installed.

When to Upgrade

You need to upgrade to Advisor software 14.0.0 or higher if you have purchased a new undercradle that requires this version of software, or you want to use your Token Ring undercradle on the "E" Series Advisors. You may want to upgrade the software if you have purchased any of the one-time software upgrades or you subscribe to the Software Update Service. For details about the compatibility of the undercradles with the J2300E and J3446E Advisor mainframes, see Undercradle Compatibility with "E" Mainframes.

Recovery / Installation

Refer to the readme.txt file in the Archives directory on the Advisor CD to create floppy disks to recover or install:

- current BIOS
- installation preparation disk(s)
- operating system emergency boot disks

Software and Documentation

Windows 98 Second Edition, standard Agilent Advisor software, and electronic documentation are installed on the Advisor hard drive at the factory. You do not need to re-install this version of the software. The Agilent Advisor software and documentation are also included on CD for re-installation or recovery. There may not be a new edition of the documentation CD issued in conjunction with every software release. The documentation CD, however, contains the latest printed material available at the time of each Agilent Advisor release.

Undercradle Compatibility with "E" Mainframes

The following undercradles, which were not supported for the 12.0.0 release, are supported on the "E" Series mainframes for the 14.0.0 and higher releases:

- J2306A and J2306B Ethernet undercradles
- J2307A Token Ring Undercradle
- J2309A and J2309B Ethernet/Token Ring undercradles

All other undercradles are supported with the "E" Series mainframes.

Adobe Acrobat Reader Version 5.0

The Adobe Acrobat Reader installation kit has been updated to version 5.0. Use Adobe Acrobat Reader to view the online versions of the product manuals and documentation that are loaded onto the Advisor when you install the Advisor software. You must have the Adobe Acrobat Reader version 4.0 or greater to view the online versions of the product manuals and documentation. For more information about the Adobe Acrobat Reader, visit www.adobe.com.

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WAN, ATM, and LAN — New Features

J5488A 3G CDMA 2000 Test Software (LAN, WAN, ATM)

The new 3G CDMA 2000 Test Software is a tool for field service network managers, engineers, and technicians in deploying, troubleshooting, and optimizing advanced 3G Radio Access Networks. This product provides decode measurements for the interfaces labeled A11 and A10 (which are jointly known as Mobile IP) and A9. Existing display filters can be used to isolate A9, A10, and A11 interface signaling by the TCP and UDP port value. Display filters for GRE isolate tunneled IP control stacks. The Protocol Statistics IP measurement can be used to quantify and drill down on A9-A11 interface traffic.

These 3G test software products now ship with the Agilent Advisor LAN, WAN, and ATM:

- 3G CDMA 2000 Test Software (J5488A)
- 3G UMTS W-CDMA Test Software (J5458A)

You must license each product separately.

J5489A RunTime Store to Disk

The new RunTime Store to Disk product configures the ATM Advisor to capture data and store it to the disk at the average throughput rate of between 800 Kbps (minimum) and 1 Mbps (maximum) per input port. A maximum file size of 2 Gbytes is supported.

When the RunTime Store to Disk run mode is selected, the status bar shows the "RSD" indicator. During the run, a subset of the measurements are available, including Line Vital Statistics, Filters and Counters, and Line Status. Other measurements are unavailable during the run to increase the performance. During post-processing, you can view the data in the Decode view as you would after any other run. See the Help for details.

You must license this product separately.

ATM Capture Filters

The ATM capture filters now include a field, which allows for counting and storing based on the AAL-5 PDU “Length” field found in AAL-5 trailer cells. This capability allows you to suppress unwanted polling messages in 3G UMTS signaling streams. It also allows you to set up ATM AAL-5 PDU length distribution counters. By utilizing this field, you can set up a packet length distribution measurement, in the Filter Counter view, of the packets being carried over ATM circuits.

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Voice Quality Tester — New Features

This section describes the features and capabilities of the Voice Quality Tester (VQT) Undercradle (VQT 4.2 release) for the 15.0.0 release. You can find additional descriptions of the product in the *Agilent VQT Getting Started Guide*.

The 4.2 release of the Agilent VQT includes two new technologies that reduce the time to troubleshoot customer-impacting problems on IP telephony networks and significantly reduce the cost of deployments on large-scale distributed networks.

VQT 4.2 introduces these two valuable new features to the VQT product line:

- 10/100 Ethernet VoIP interface for placing and/or answering H.323 and SIP calls.
- VQT Responders, which are low-cost, book-sized units that serve as VQT end points for testing.

10/100 Ethernet VoIP Interfaces

All of the VQT test platforms can provide 10/100 Ethernet voice quality testing in some form. The VQT Ethernet VoIP interface enables engineers to quickly isolate and resolve voice service problems in a VoIP network. With the VQT Ethernet VoIP interface, voice quality is actually measured, not predicted or estimated, by placing end-user H.323 and SIP calls. This interface allows origination and termination of active calls from other VQT interfaces across VoIP gateways such as digital T1 and E1 or analog FXO and E&M VQT interfaces. By having a 10/100 interface to act as a SIP or H.323 end point, VoIP problems can be isolated to a specific problematic gateway, router, and switch on the VoIP network.

VQT Responders

The VQT Responder is Agilent's newest VQT test platform. VQT Responders enable low-cost, large-scale deployment of distributed voice quality testing and troubleshooting. VQT Responders extend service quality testing to dozens or hundreds of network sites, and enable one of the lowest per-server cost for distributed deployments available. Used together with other centralized VQT servers, active voice calls can be conducted directly to customer premises as part of an overall service management system for VoIP.

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Protocol Decodes for 15.0.0

New and updated decodes ship with this 15.0.0 release. For details, see the online version of the protocol decodes spreadsheet on the Agilent web site, or contact Product Support.

New and Updated Decodes

The decodes listed here have been added for the 15.0.0 release.

Protocol Name	Description	Specification	Protocol Suite	Function/Product
GTP'	GTP Prime GPRS Charging	ETSI TS 101 393 V7.6.0 (2000-11)	Wireless - IP	Wireless -- Std
HTTPS	HTTP Security	RFC 2818	TCP/IP	Std
IP Router Alert	IP Router Alert	RFC 2113	TCP/IP	Std
IPv6 over IPv6	IPv6 over IPv6		TCP/IP	Std
SIP INFO	SIP INFO Method	RFC 2976	XoIP	Media over IP -- Std

The decodes listed here have been updated for the 15.0.0 release.

Protocol Name	Protocol Suite	Function / Product
BGP-4	TCP/IP	Routing Protocol -- Std
GMPLS	LLC or PPP	Routing Protocol -- Std
IS-IS ext	OSI	Routing Protocol -- Std
MPLS	LLC or PPP	Routing Protocol -- Std
OSPF	TCP/IP	Routing Protocol -- Std
SIP	XoIP	Media over IP -- Std
RSVP	TCP/IP	QoS -- Std
IOS_A9	Wireless - IP	Wireless - J5488A Advisor & J6845A Network Analyzer
MIP	Wireless - IP	Wireless -- Std
LDP - MPLS	TCP/IP	Routing Protocol -- Std
GTP	Wireless - IP	Wireless -- Std
LCP	PPP	Routing Protocol -- Std
LMP	TCP/IP	Routing Protocol -- Std
ORP	ATM Protocol	Wireless -- Std
OSP	ATM Protocol	Wireless -- Std
ODSI CP	TCP/IP	Routing Protocol -- Std
ODSI SS	TCP/IP	Routing Protocol -- Std
OSPF ext	TCP/IP	Routing Protocol -- Std
PPP MP	PPP	Routing Protocol -- Std

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VNC (Virtual Network Computing)

VNC (Virtual Network Computing) is a remote display system, which allows users to view their computing "desktop" environment on the machine where it is running, and from anywhere on the Internet. This means you can leave your desk, go to another machine, whether next door or several hundred miles away, reconnect to your desktop from there, and finish what you were typing. Even the cursor will be in the same place.

The Advisor 15.0.0 release includes AT&T's VNC freeware product. VNC is an AT&T product, and is provided by Agilent Technologies, Inc. for your convenience. The VNC freeware is not supported by Agilent Technologies, Inc. For support on VNC, go to http://www.uk.research.att.com/vnc/.

Read the VNC document supplied with your shipment in its entirety before loading the VNC installation package.

Loading the VNC Installation Package

When you install the Advisor 15.0.0 software, you can select to install the VNC installation package and documentation. However, before you use the installation package to install VNC, read the documentation. A shortcut to the documentation is located in the Start menu. For details and references, visit http://www.uk.research.att.com/vnc/.

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WAN 15.0.0 Fix and Help Change

This section describes changes for the Advisor 15.0.0 WAN and WAN Help.

Advisor Now Terminates Cable End

In addition to the fixes and known problems described in the online file, the issue described here has been fixed for this release.

In the E1 Monitor Jack (-20dB or -30dB) for the J2294D, J2296D, and J2298D modules, the Advisor now terminates the cable end in the module when the Advisor receiver mode is "Monitor Jack -20dB" or "Monitor Jack -30db". The Advisor was inadvertently "Bridging" the end of the cable in the module, which can easily result in the Advisor detecting line code violations, CRC-4 errors, and errored data frames. The "Terminated" mode was correct in WAN software release version 11.8, but had been set incorrectly in subsequent releases prior to this release of WAN 15.0.0.

SLA Advanced Options — Change to the WAN Help

This text describes a correct version of the SLA Advanced Options topic in the WAN Help.

SLA Advanced Options in WAN Help

If Hardware Loopback is enabled, the SLA Advanced Options dialog box is available. In this dialog box, you can configure the Advisor to add one frame time delay, because the data in the frame is returning BEFORE the end of the frame would normally have been received at the far end. The hard loopback may be placed at some intermediate network device, or at the actual far end of the circuit.

These selections exist in this dialog box:

- Hardware Loopback — Select this check box if you have a hard loopback inserted on the circuit on which the SLA test is being performed.
- Far End Baud Rate — Enter the baud rate or the actual data rate of the traffic (not the access rate) for the hard loopback at the far end or at the intermediate network device. This setting will allow the correct Frame Transfer Delay to be measured for SLA tests according to Frame Relay Forum specification FRF.13.

For example, a 256 Kbps V-series interface circuit that was transported over 4 timeslots of a T1 circuit would use a Far End Baud Rate of 256 Kbps, whether the loopback occurred at the T1 equipment or at the far end V-series interface. On the other hand, if the 256 Kbps data was "stored and forwarded" to a T1 backbone Frame Relay network, and the hard loopback occurred in the T1 or higher-speed equipment, then the Far End Baud Rate would be set to 1536 Kbps for T1. If the hard loopback was placed at the actual far end V-series interface of 256 Kbps, then the Far End Baud Rate would again be set to 256 Kbps.

If the Hardware Loopback is not selected because the network equipment is able to fully receive the SLA frame, and then loop it back to the Advisor, you should estimate the amount of time the looping device may take to respond and start transmitting a frame. Half of this estimated time should be subtracted from the Advisor's display of One-Way Frame Transfer Delay.

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For Further Information

After the Advisor 15.0.0 software is installed (whether installed by the factory or you), read the "Fixes and Known Problems" file, which is located on the Documentation CD. That file describes:

- Compatibility issues
- Problems fixed since the last release
- Known problems

The Fixes and Known Problems file also contains the VQT 4.2 known problems and issues.

Press F1 for Help

When using the LAN, WAN, ATM, or Gigabit applications, you can press F1 to display the product Help for detailed information. Pressing F1 displays context-sensitive Help that is designed specifically for each window in the application you are using.

You can also select Help Topics from the File menu to display the complete Help for the application you are using.

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