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## J6848A JDSU Report Center Release Notes v7.20.1

JDSU Report Center is a Windows-based application that creates interactive, online, and hardcopy reports from data collected with the Network Analyzer, Advisor, and VQT product families. Report Center significantly reduces the time, people, and expertise needed to document and identify performance characteristic in today's multi-site, multi-technology networks.

Thank you for purchasing and using these JDSU products. JDSU is committed to customer satisfaction. If you have any problems with any of the components of the Network Analyzer Solution, please use the contact information below (in the United States), or call your local Sales Office outside the United States.

**To set up and use Report Center, begin with the Getting Started Guide included on the CD with your purchase.**

**Contact JDSU Technical Support at:**

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## Features Added in this Release (05-February-2012)

### Network Analyzer 7.20 Support

You must upgrade to this release or higher of Report Center to process files created with Network Analyzer 7.20 software.

### Fixes Added in this Release

None

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## Release History

### Features Added in 7.00.2 (12-June-2011)

#### Network Analyzer 7.00 Support

You should upgrade to this release or higher of Report Center to process files created with Network Analyzer 7.00 software. Enhancements to Protocol Vitals, MAC Node Stats and RTCP Monitor measurements require this upgrade.

#### Subsecond Interval Support

Full support for post-capture subsecond log intervals has been added in this release.

### Fixes Added in 7.00.2 (12-June-2011)

#### Network Analyzer MAC Node Stats Directional Fix

When the same source MAC address appears on multiple ports (i.e. EQ and LN or Hub and Node) in the MAC Node Stats measurement, counts could become mingled across the ports. This has been resolved.

### Features Added in 6.70.1 (15-September-2010)

#### Network Analyzer 6.70 Support

You should upgrade to this release or higher of Report Center to process files created with Network Analyzer 6.70 software.

#### Graphics Engine Enhancements

All charting tools have been transitioned to a new high-speed GDI Plus graphics engine that provides faster performance and even better-looking results. Unicode text is also now supported in the plot areas for languages requiring this support.

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## **Features Added in 6.65.3 (17-August-2010)**

### **Network Analyzer 6.65 Support**

You must upgrade to this release or higher of Report Center to process files created with Network Analyzer 6.65 software. Changes to several Network Analyzer measurements have been made that require this release.

### **Network Analyzer 10 GigE/GigE Blade Interface**

This new interface is supported.

## **Features Added in 6.6.0 (25-January-2010)**

### **Network Analyzer 6.6 Support**

You should upgrade to this release or higher of Report Center to process files created with Network Analyzer 6.6 software. Changes to timezone calculations and protocol labels may be incorrect if you do not upgrade.

### **First Timestamp Counter Implementation**

First timestamp counters are displayed instead of waiting for the second one, as has been done in all previous releases of Report Center. Although this can cause an initial spike to appear in certain replayed data files (where the first data point is a cumulative value starting prior to the earliest buffer data), the advantages to not missing any detail make this change particularly useful when working with most logged data.

## **Fixes Added in 6.6.0 (25-January-2010)**

### **Network Analyzer 6.0 to 6.5 Timestamp Fix**

When processing files originally created with Network Analyzer 6.0 to 6.5 by using the replay from buffer feature, the timestamps displayed were incorrectly displayed. This behavior has been resolved.

## **Features Added in 6.1.5 (16-September-2008)**

### **Network Analyzer 6.0 and 6.1 Support**

You must upgrade to this release or higher of Report Center to process files created with Network Analyzer 6.0 or 6.1 software.

### **Network Analyzer 8-Port and 16-Port Gigabit Ethernet**

This new interface is supported, providing Multiport Vitals stats and the ability to aggregate interfaces from within Report Center.

### **DNA Direct Installation**

Report Center can now be installed directly on a DNA MX or DNA PRO. Please contact your support representative for instructions on preparing your DNA for the installation.

### **Fixes Added in 5.5.0 (26-November-2007)**

#### **Channel Stats Update Interval Calculations**

If the default 1-second update interval was changed within the config tab of an individual Network Analyzer Channel Stats measurement (including DLCI, VLAN, VPi.VCi, and MPLS variants), Peak Bit Rate and Peak Utilization counters were incorrect by an order of magnitude equal to that of the defined update interval. This behavior has been resolved.

### **Features Added in 5.4.8 (06-June-2007)**

#### **Significantly Improved Speed and Reduced Memory Utilization**

A completely upgraded data acquisition engine processes log files up to 10x faster than previous 5.x releases and up to 40x faster than 4.x releases. New dynamic memory allocation algorithms reduce memory utilization by up to 90%. Improvements to the charting engine also speed up the creation and teardown of interactive charts.

#### **Bi-directional and Combined Throughput Stats Added**

Key calculations for utilization, bit rate, frame rate, frame length and some other throughput stats can now be plotted directionally to, from, or to+from an individual stream. Previous releases only displayed the “from” stats. On full-duplex Ethernet connections, utilization for individual directions are calculated based on half-duplex rates to more accurately reflect throughput potential.

#### **Upgraded from 1024 streams per measurement to 25,000**

Prior to this release, only 1024 streams (Connections, Nodes, Protocols, etc.) could be processed for each measurement before time filtering was required. This has been expanded to a maximum of 25,000, with a default of 5000 set in Profile Management that can be changed.

#### **Improved Display and Print Fonts**

All base fonts in the user interface, charts, and reports have been changed to improve legibility and formatting.

#### **Combined Streams Added**

IP Nodes and Connections Streams can now be combined into aggregate streams that can be reported on just like regular streams. This allows the user to visually bundle and group together related streams for a wide variety of reporting situations.

#### **Stream Sorting Added**

To improve navigation of Connections in the Interactive Report, the navigation tree can be sorted into multiple levels by several fields, including IP DSCP ->, IP DSCP <-, Source and Dest IP Address, Source and Dest Port Numbers, and Protocol.

#### **Network Analyzer 5.4 Support**

You must upgrade to this release or higher of Report Center to process files created with Network Analyzer 5.4 software.

#### **Network Analyzer MPLS COS/DSCP Measurement Added**

Support for this Network Analyzer measurement has been added with this release to report on counts of MPLS COS and IP DSCP values.

## **Fixes Added in 5.4.8 (06-June-2007)**

### **Custom Logo Missing Error**

If the path to a custom logo for the default report profile is no longer unavailable, Report Center could present an error and shut down. The software will now revert back to the default logo when this condition exists.

## **Features Added in 5.3.0 (31-December-2006)**

### **Network Analyzer 5.3 Support**

You must upgrade to this release or higher of Report Center to process files created with Network Analyzer 5.3 software due to an underlying data structure change.

### **Enhanced Chart Legend Control**

Chart Styles now have the option to turn off all legends when desired. Legends can also be turned off dynamically via the chart popup menus. Pie charts have been enhanced so that clicking point labels will rotate through the selection of showing values, subset labels or both.

## **Fixes Added in 5.0.7 (11-Oct-2006)**

### **Connection Stats Counter Fix**

In certain network configurations it is possible that the Network Analyzer will track IP Connections in two record streams simultaneously, confusing Report Center's long term trending. This fix properly evaluates and combines the records into one.

## **Features Added in 5.0.3 (08-May-2006)**

### **Friendly Node Names**

IP and MAC Addresses are now displayed using observed network names wherever possible. Friendly names include original MAC or IP addresses in certain measurements for ease of cross-referencing.

### **Significant Speed Improvements with Large Files**

Very large log files, especially those with Connection Stats data, could take a long time to process. A significant upgrade to the data importing engine has been applied to this release. A file that once took 22 min to process now takes 4.5 min, a 5x improvement. The larger the file, the greater the improvement.

### **Network Analyzer Multilink WAN**

Support for Multilink WAN using the high density T1/E1 8-port LIM has been added.

### **Network Analyzer Protocol and Channel Stats**

Support for the updated versions of these measurements in Network Analyzer 5.0 added.

### **Fixes Added in 5.0.3 (08-May-2006)**

#### **Default Chart Styles**

User-defined default chart styles would not apply correctly in some earlier releases.

#### **Multiport ISDN**

Data alignment issue resolved.

### **Features Added in 4.8.8 (10-November-2005)**

#### **Network Analyzer DLCI Stats - Peak Utilization**

Counters for peak utilization by DLCI from the start of a capture have been added to the Channels measurement in Report Center.

### **Fixes Added in 4.8.8 (10-November-2005)**

#### **Protocol and Node Stats**

Improvements to the reporting engine to allow measurements with 0 nodes or protocols discovered in the first several records to continue processing completely.

### **Features Added in 4.8.6 (09-August-2005)**

#### **Network Analyzer Multiport ATM**

Support for Multiport ATM stats added, including port numbers in VPi.VCi stats.

#### **Network Analyzer RTCP Monitor**

Support for the updated version of this measurement in Network Analyzer 4.8 added.

#### **VQT MOS LQO Support**

Support for VQT 4.5 MOS LQO reporting in Clarity PESQ and Echo (PACE) PESQ measurements.

### **Fixes Added in 4.8.6 (09-August-2005)**

#### **Installation Error - missing DLLs**

When installing Report Center on some systems, an error could occur on the first run stating: "Component 'mscomctl.ocx' or one of its dependencies not correctly registered. A file is missing or invalid."

#### **Japanese Language Error**

When selecting the Japanese language installation for Report Center, Run time error 380 would appear on the first run.

#### **Advisor Vitals**

Report Center could set the line side rate to 0 when no user-defined line speed is set.

**Network Analyzer Vitals - HSSI LIM missing**

When using the HSSI LIM on a Network Analyzer, the Vitals measurement would not process.

**Network Analyzer Connection Stats - Backward Compatibility Issue**

Under certain circumstances, older log files with Connection Stats would not process with newer software.

**Features Added in 4.6.4 (04-April-2005)**

**Network Analyzer ATM Policing Measurement**

Support for this new Network Analyzer measurement added.

**Fixes Added in 4.6.4 (04-April-2005)**

**VQT Clarity Trends - Single Run Display Issue**

When only a single instance of a Clarity Trend measurement is present in a VQT log file with no other Report Center supported measurements, Report Center could miss the counters. This has been resolved.

**Features Added in 4.6.2 (31-March-2005)**

**Network Analyzer OC-12/STM-4 LIM with 4-Port OC3/STM1 Mux**

This new interface is supported.

**Fixes Added in 4.5.6 (26-January-2005)**

**Vitals Measurement - Backward Compatibility Issue**

Under certain conditions, Network Analyzer software earlier than v4.5 can produce a Vitals Measurement which causes Report Center 4.0.5 or greater to have trouble processing that measurement, causing that measurement to be missing from reports. An internal workaround has been implemented in this release to allow correct processing of these files without user intervention.

**RTCP Monitor - Backward Compatibility Issue**

Report Center 4.5.5 incorporated a major reworking of the RTCP Monitor measurement which inadvertently “broke” compatibility with the RTCP Monitor measurement in Telephony Network Analyzer software earlier than v4.5, causing that measurement to be missing from reports. This has been fixed.

**2GB Maximum Log File Size Limitation**

Report Center can only process log files which are 2GB (2,147,483,647 bytes) or less. A simple workaround of reloading large files in Network Analyzer software and resaving into multiple files, without Expert of Decode data solves the problem. Report Center can easily combine the multiple files into a single report. Implemented in this release is logic to properly recognize and warn of the issue when processing files, including the display of these workaround instructions.

## **Features Added in 4.5.5 (31-December-2004)**

### **MPLS Stats Measurement**

Support for this Network Analyzer measurement added, detailing statistics by MPLS stack.

### **MultiPort T1/E1 LIM with IMA Stats**

This Network Analyzer interface is supported with detailed statistics by port, including Convergence Sub-Layer and IMA stats.

### **IPv6 Addressing**

Many Network Analyzer measurements have been updated in revision 4.5 to support IPv6 addressing, including RTCP Monitor and Connections Stats.

### **User-defined Interface Labels**

Users can override basic interface names with their own identifying labels for better clarity in reports. For example, "T1:EQ" can now be "Chicago Outbound Data".

### **Dynamic Chart Scaling and other Reporting Improvements**

Many improvements have been made to refine the quality of charts and reports. Charts now scale more dynamically based on the data they contain, increasing legibility in a variety of circumstances. Labelling within the reports has also been improved based on user feedback. Many other adjustments have been made to further optimize output.

## **Features Added in 4.0.4/4.0.5 (15-August-2004)**

### **AutoReporting**

Built-in and user-defined AutoReport Profiles completely automate repetitive reporting tasks. By selecting a logfile and an AutoReport, a complete report can be produced, ready to print or be saved as a PDF. This feature not only allows new users to have instant success with Report Center, it allows more advanced users to quickly define, save, and run repetitive report scenarios.

### **Chart Style Profiles**

Basic combinations of plotting styles, data table inclusions, color schemes, and font sizes can now be stored and accessed in easy to use profiles.

### **Profile Import/Export**

All profile types can be easily imported and exported, facilitating individual backup needs and global profile and AutoReport template distribution across an organization.

### **VQT "Drive Testing" Support**

The Clarity Trend measurement on the VQT allows continuous logging of several clarity results which is now supported by Report Center.

## **Features Added in 3.1.5 (28-February-2004)**

### **Network Analyzer Benchmarking Measurement**

Results from the Analyzer's LAN Benchmarking measurement can now be plotted and analyzed in Report Center.



### **Network Analyzer OC-12 LIM**

This new interface is supported.

## **Features Added in 3.0.9 (30-December-2003)**

### **Channel Profiles**

User-defined channel rates and logical names can be easily edited and applied to log files containing DLCI, VPi.VCi, or VLAN data, producing utilization statistics based on either line or channel rates.

### **Line Speed Profiles**

User-defined line speeds can be used to override the observed line rates of any interface. This is particularly useful for WAN serial interfaces that may have variable rates and ATM interfaces that use different maximum cell rates.

### **Layout Profiles**

Report configurations are now stored in an easier to use format accessible from User Preferences.

### **Summary Bar and Pie Charts**

Summary Bar and Pie charts are now available for all stats and measurements, in addition to the standard trended charts.

### **Advisor and Network Analyzer IP-IP Connection Stats Measurement**

The Analyzer's Commentator and Connection Stats measurement can now be used to generate stats on a per-connection basis, allowing Report Center to detail individual connections down to the port and protocol.

### **Advisor Filters/Counters Stats and BERT Results Measurements**

These legacy measurements were supported in Advisor Reporter and are now available in Report Center.

### **Network Analyzer HSSI LIM**

This new interface is supported.

## **Features Added in 2.1.12 (10-July-2003)**

### **Telephony Module**

A new Telephony Module is available as J6848A Option 002, providing support for the Voice Quality Tester (VQT), IP Telephony Analyzer (IPTA), and Telephony Network Analyzer (TNA). Reports can be produced from the Clarity, Echo (PACE), and Delay tests on the VQT, from RTP Stats and Line/Protocol Vitals on the IPTA, and from RTCP Monitor and Line/Protocol Vitals on the TNA.

### **Packaging and Licensing Change**

With the addition of the Telephony Module, Report Center has been repackaged into separate modules. All previous release of Report Center are functionally equivalent to the new Wireline Data Module, part J6848A Option 001. Older licenses of Report Center will be automatically converted into Wireline Data licenses upon installation of this release.

### **Enhanced Data Tables on Charts**

The data tables that appear in charts have been enhanced.

Mean and Peak values for each statistic have been replaced with Low, Mean, and High values. Low values are new, Peak values have simply been renamed for clarity.

Very small values are now displayed as <0.01 instead of 0.00.

Only values below 1000 now include 2 decimal places.

### **Expanded Error Handling**

When processing invalid, incompatible, or corrupt log files, Report Center now displays better messages to help identify why a file did not process.

### **Chart Improvements**

Charts lines have been made thinner by default, improving readability.

Null or missing values (gaps in data) are now hidden instead of displayed as 0 values.

## **Features Added in 2.1.4 (12-May-2003)**

### **Prefilter added for managing large files**

When processing logfiles which contain a large number of streams (nodes, protocols, or channels), Report Center limits the view to the first 1024 observed in the file. This can still be an overwhelming number to visually work with and consumes a lot of system memory. The prefilter allows users to select both the maximum number of streams to include in a report and to specify a time in the logfile to begin looking for streams.

### **Top N Reporting and sorting added**

The Top N Reporting feature works by internally tracking the total number of bytes cumulatively transmitted from and received by each stream (node, protocol, and channel). Users can then have the streams sorted and/or selected in top N order, automatically building and updating charts for faster analysis and reporting.

### **User Preferences sets default charting options**

A new User Preferences configuration screen allows chart plotting style, color palette, statistics appearance and font size to be set and saved as default settings that persists across reporting sessions.

## **Features Added in 2.0.6 (27-Feb-2003)**

### **Japanese Localization**

All elements of the user interface and reports have been translated into Japanese, including chart customization and export options which previously displayed only in English.

## **Features Added in 2.0.5 (14-Feb-2003)**

### **ATM Cell Loss/Delay Measurement**

Support for this Advisor measurement added.

### **ATM Policing Measurement**

Support for this Advisor measurement added.

### **PDFs enhanced to allow editing of all text fields**

All text in PDF files can be edited using a retail version of Acrobat, including text in charts.

### **Link to Getting Started Guide added to Help menu**

A link to the Getting Started Guide has been added to the Help menu to facilitate product use.

### **Speed Enhancement**

Users of all operating systems should see a performance improvement of at least 50%. Memory-constrained systems processing very large files can see improvements of over 100%. Memory usage has also been dramatically reduced in Channels, Protocols, and Nodes measurements.

## **Features Added in 1.2.10 (29-Nov-2002)**

### **Japanese Localization**

All elements of the user interface and reports have been translated into Japanese with the exception of the chart customization and export components.

### **Alternate Color Palettes**

From the Interactive Report's Chart menu you can now select one of two color palettes to be used in chart creation. The default color palette color coordinates the Eq/Ln, P1/P2, Node/Hub sides of an interface by using different shades of the same color. The high contrast color palette selects visually contrasting colors as an alternative. Both color palettes have their place in different circumstances. Selecting a different color palette will not affect charts until they are redrawn by clicking another tab or adding/removing elements.

## **Features Added in 1.2.8 (28-Oct-2002)**

### **Initial Production Release of Report Center 1.2**

This is the first production release of Report Center. Please uninstall any beta installations prior to installing this or any future releases on your computer.

## Release History