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VIAVI Solutions 5G

Enabling Australia's Field Technicians to build, troubleshoot and maintain better communications networks.

VIAVI MASTER Distributor

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PathTrak™ WebView Software

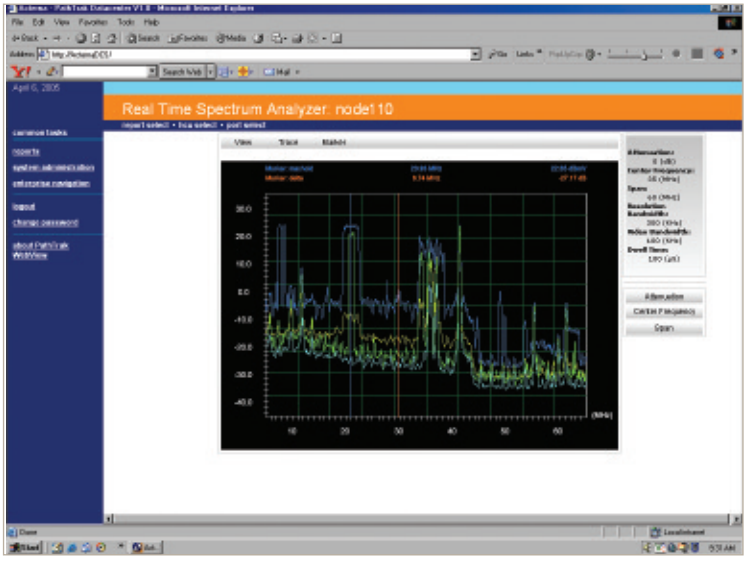
Key Benefits

- Automates node certification and node ranking to prioritize field maintenance of "top offenders"
- Facilitates handoff of problems between the plant and the NOC through easier data access
- Stores data in an open format to facilitate custom reports and integration with other systems
- Reduces IT maintenance and deployment by using Internet based server software
- Easy access to the live return spectrum analyzer data from virtually any PC via Internet Explorer to reduce the mean time to understand (MTTU) and mean time to repair (MTTR)

Key Features

- **Automated daily reports including VoIP node certification reports displaying top offender node list for prioritization and planning of field maintenance**
- **Open MySQL database provides remote access to PathTrak Node Certification Reports and Performance History data to share measurement information with reporting and analysis tools**
- **Unlimited users vs. maximum of 30 simultaneous PathTrak Clients**
- **HCU grouping for assigning viewer access privileges; can be segmented on a user by user basis so users only view their related nodes**
- **Search by name for Node (RPM port)**
- **Easily drill down to review live and historical details in 15 minute increments on a node by node basis**
- **Individual remote spectrum users have full control of measurement parameters such as Dwell Time, Resolution Bandwidth, and Video Bandwidth**

Increase your PathTrak investment value. Provide Web-based access to node certification reports, live spectrum, and detailed upstream performance history reports to more personnel. Increase your triple-play customers' satisfaction and your workforce efficiency by proactively certifying and monitoring return paths.



Web-based Spectrum Analyzer View

PathTrak WebView

JDSU understands that increasing work efficiency in order to deploy VoIP faster, while maintaining network security, is a major challenge. PathTrak WebView software addresses this issue by allowing remote access to the most used troubleshooting tool, the live spectrum analyzer, and to beneficial reports based upon performance history data via the Internet. WebView server software automatically evaluates up to 24 hours of data on all nodes and ranks the performance of your nodes, enabling operators to prioritize their work force more efficiently. PathTrak WebView allows operators to access live spectrum views and generate reports from outside of the corporate LAN network to remotely troubleshoot upstream issues.

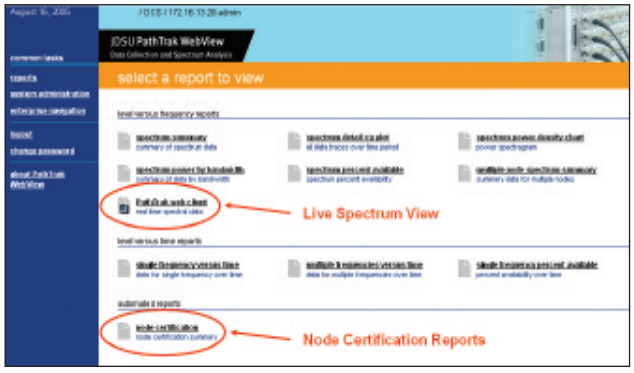
– Password protected entry from Internet Explorer browser

– Customer can choose whether or not to place behind the firewall

– Able to use VPN to securely view data using WebView Software

– Open MySQL Database provides remote access to PathTrak Node Certification Reports and Performance History data to share measurement information with reporting and analysis tools

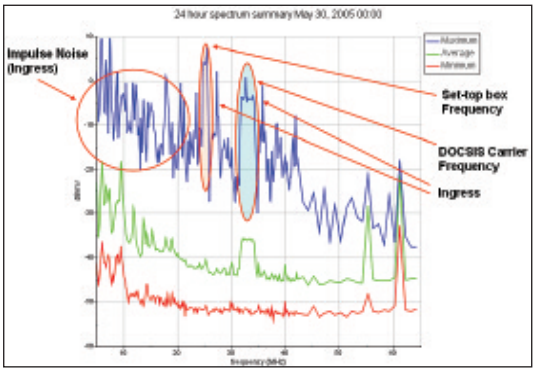
– Interfaces with JDSU NetComplete™ Performance Monitoring and Capacity Management software and third party OSS software



There are ten standard reports that can be used for faster troubleshooting and preventative maintenance planning

WebView server software automatically ranks node RF upstream performance based on quantitative test data gathered by PathTrak

Fifteen minute increments are summarized as either pass or fail in on a node by node basis



Easily drill down to summary of peak hold, average, and minimum hold trace in each of the 15 minute increments

Specifications

PathTrak Web Client – Live Spectrum View

Frequency Range	5-65 MHz
Dynamic Range	-40 dBmV to +50 dBmV
Resolution Bandwidth	programmable to 30, 300, and 1000 kHz
Video Bandwidth	programmable to 10, 30, 100, 300, and 1000 kHz
Minimum Noise Burst Measurable	<1 microsecond
Dwell Time	programmable from 1 microsecond to 100 milliseconds
Interactive Spectrum Analyzer Mode	500 points of frequency resolution
Traces	minimum, maximum, average, and normal (live)
Markers	minimum, maximum, average, and normal (live)

Reports

Report functionality relies on the PathTrak monitoring plan, which specifies the frequencies used to collect data and the thresholds used to compare data.

Node certification report

The node certification summary report displays a ranking of the nodes RF performance based on PathTrak alarm threshold and performance history data. Node ranking/prioritization is based on percent of time over an adjustable PathTrak threshold (RF levels) during multiple 15 minute time frames. Reports can be configured to automatically calculate and update Pass/Fail results from one to 24 hours. Administrator is able to define the start hour as well as the test duration for certification. (i.e. 1, 2, 4, 8, 12, 16 or 24 hours) This report is used as a summary report for overall node health.

Spectrum summary report

The spectrum summary report displays maximum, average and/or minimum traces of the spectrum analyzer view for the selected time window. This is the most common report used to monitor averages over a given period of time. Summaries are often compared over time to monitor how performance changes.

Spectrum detail x/y plot report

The spectrum detail x/y plot report displays the 15-minute spectrum analyzer traces (maximum, minimum or average) in the selected time window. Each 15-minute measurement displayed as a separate colored line on the graph. This report is most commonly used to search for "outliers", data sets that do not match the general pattern.

Spectrum power density chart report

The spectrum power density chart report displays time verse frequencies and the power level of each frequency for the selected time window. This report differs from the spectrum detail x/y plot report in that it displays power level information as different sequential colors while displaying time and frequency information. This ultimately shows time verses frequency verses level (3-D information) in 2-D format to provide a visual picture of changes in performance.

Spectrum power by bandwidth report

The spectrum power by bandwidth report displays the integrated power of 2 or 4 MHz of each frequency over the entire return spectrum. This report is used to measure how much power is transmitted in each section of the spectrum for the purpose of planning where to place carriers.

Spectrum percent available report

The spectrum percent available report displays the percentage of time that each specified frequency does not exceed the selected threshold for the selected time window. This report is used to measure the carrier performance, as represented by the percentage of time that it is not in an alarm state.

Multiple node spectrum summary report

The multiple node spectrum summary report displays of the Spectrum Summary Report up to 16 nodes selected by the user simultaneously. This report is most commonly used to compare the performance of multiple nodes connected to a single CMTS port in order to isolate which node is causing a CMTS problem.

Single frequency versus time report

The single frequency versus time report displays the power level of a user-defined frequency for each 15-minute spectrum dataset in the selected time window. This report is used to monitor the performance of a certain frequency such as where a carrier is located over time.

Multiple frequencies versus time report

The multiple frequencies versus time report displays the power level of up to 16 user-defined frequencies for each 15-minute spectrum dataset in the selected time window. This report is used to monitor the performance of a set of certain frequencies such as noise or carriers over time.

Single frequency percent available report

The single frequency percent available report displays the percentage of time that a single user-defined frequency does not exceed the selected threshold for the selected time window. This report is used to measure the carrier performance, as represented by the percentage of time that it is not in an alarm state.

PC Requirements of PathTrak WebView Software

PC not included. The WebView server software can co-exist on the same PC hardware that is running the PathTrak V2.3 server software, as long as the minimum PC requirements are met. WebView server software can also be installed on a separate PC from the PathTrak Server. WebView server software cannot be installed on the same PC as the Test Productivity Pack/FDM server software, but it can co-exist on the same PC running the PathTrak and TPP Client software.

Minimum PC Requirements

- Pentium® 4, 2 GHz CPU with 1 GB RAM
- Dual Processors are recommended for server PCs which are running both PathTrak server and WebView server software

Pentium® is a registered trademark of Intel Corporation.

Hard Drive Requirements

The hard drive size is determined by the amount of data to be collected. Each RPM card requires approximately 5.6 MB of storage space for each day of 15-minute intervals. Multiplying 5.6 MB by the number of days that the data will be kept on hand (purge interval) gives an approximate hard drive size requirement. The default storage options require 174 MB per RPM card. For example:

A 31-day purge interval (default setting) with 1 fully loaded HCU1500 (15 cards) requires 2.6 GB of hard drive space.

15 cards x 5.6 MB x 31 days = 2,604,000,000 or 2.6 GB

Operating System Requirements for the Server

Microsoft® Windows® XP SP1 or higher

Microsoft Windows 2000 Server SP3 or higher

Microsoft Windows 2003 Server

Microsoft® and Windows® are registered trademarks of Microsoft Corporation.

PathTrak Server Requirements

The PathTrak server must be V2.3 or higher. One PathTrak WebView server is required per PathTrak server. The latest PathTrak service pack software can be found at http://www.jdsu.com/test_and_measurement/customer_care/software_updates/index.html

Web Client Requirements

This is the PC from which you are accessing the PathTrak WebView server.

Browser Support:

Microsoft Internet Explorer V6.0 or higher

Graphic Support

For displaying live spectrum

Adobe® SVG Viewer (freeware) can be downloaded at http://www.adobe.com/products/main.html under "Print and Web Publishing".

Network Port Requirements

The default communication port between the PathTrak WebView server and the Web client is port 8080 (Web HTTP port). It is user editable to another port, if needed. (For example, another Web application running on the same PC.) Contact JDSU Technical Assistance Center for further information.

Ordering Information

Part Number	*Description*
1010-00-0914	PathTrak WebView Server Software

JDSU On-site Optimization Service for PathTrak Monitoring Systems

Get the most out of your PathTrak investment – Optimization services are even more critical for node certification reports PathTrak system and threshold must be configured properly in order to generate accurate node certification reports. JDSU's on-site PathTrak Optimization Service allows you to tap into the full potential of your PathTrak reverse path performance monitoring system. Partner with JDSU's PathTrak experts to get the most out of your PathTrak investment.

– Refine your PathTrak configuration for Optimum Performance
– Receive System Administrative refresher training
– Receive comprehensive in-depth PathTrak system training
– Leverage JDSU's OEM System/Installation Knowledge
– Gain the benefits of Firmware Upgrades and Engineering Change Notices
– Receive in Depth Preventative Maintenance, Troubleshooting, and Repair training
– Re-certify system installation and configuration
– Utilize your own customized support agreement

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