Gain Unprecedented Visibility into Upstream Performance with PathTrak™ WebView™ 3.0

Key Benefits

- Know the impact of impairments on subservices and fix the most critical problems first
- One-person diagnosis of upstream performance for field technicians
- Non-intrusively monitor and troubleshoot live DOCSIS 3.0 services in real time (in-band and in-service)
- Faster fault segmentation/isolation reduces repair time
- NOC and Field Ops using the same single information source and data set eliminates finger-pointing between work groups, reducing repair times and OpEx

Applications

- Supports DSAM Field View QAM (PathTrak QAMTrak Analyzer on the DSAM)
- Provides node ranking based on actual customer modem performance
- Stores historical MACTrak data for trending upstream performance
- Supports HSM Sharing, up to eight HCU200s can share one HSM-1000 for Field View

Increased exploitation of upstreams indicates that spectrum-analysis-only-based tools are no longer sufficient for managing service/network maintenance tasks. The biggest changes in the DOCSIS® 3.0 environment are upstreams crowded with wider and higher-modulation quadrature amplitude modulation (QAM) carriers with increased sensitivity to linear impairments, such as micro-reflections, in-band frequency response, and group delay.

The latest developments to PathTrak deliver MACTrak™ Performance Monitoring and DSAM Field View QAM™. It is the new generation of PathTrak software bringing unprecedented visibility into upstream performance. Being based on actual customer modems, in-band performance reflects the quality of network service that customers see. Historical MACTrak performance data provides hard evidence of improved node or carrier health following maintenance work. If the problem remains, MACTrak will help you diagnose other targeted problem possibilities, such as which fault is causing poor node or upstream performance and when. Is a single modem dragging down node or upstream performance or is the same fault impacting all customers? Identify network segments needing the most attention to prioritize maintenance and repair using MACTrak Performance Monitoring node rankings. Streamline operations after reviewing historical upstream performance to identify the cause and determine the right time of day to dispatch technicians to fix the issue. Effectively delivering the capability of PathTrak QAMTrak™ and MACTrak to the DSAM makes Field View QAM the latest interactive development between PathTrak and the DSAM. It reduces the time for modem upstream tests/fault finds and converts upstream troubleshooting into a one-person task for technicians or installers. Delivering live modem upstream measurements from hub sites to the field removes the need for an additional technician or additional test equipment at hub sites and eliminates necessary support from NOC staff.
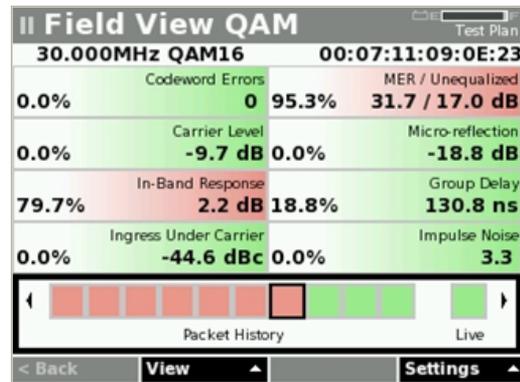
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The V3.0 WebView software release addresses the needs of the NOC, maintenance planners, field technicians, and installers alike; therefore, making it a must-have for anyone committed to improving quality of service, operational efficiency, and network performance.

MACTrak Performance Monitoring

MACTrak Live Troubleshooting

DSAM Field View QAM

![JDSU Logo]

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