Employ Fine-Grain Analytics for Premium Video Services With Hitachi Data Systems and JDSU

Telecoms and enterprises across a myriad of industries need granular visibility into their networks, from the core to the edge, to understand how the networks serve both internal and external customers. Responsive and real-time decision-making requires that organizations not only glean performance information from across their networks, but also have the analytics, infrastructure and tools to provide detailed and granular real-time analysis. Hitachi Data Systems, with the streaming data platform from Hitachi Data Systems and its smart ingest and visualization dashboards, has joined with JDSU, and its PacketPortal™ technology, to deliver on both counts. Contact HDS to “program manage” this network analytics solution, from end-to-end, from core-to-edge, integrated, tested, and deployed.

Enable New Business Models With Real-Time Analytics

Experience these features and benefits of the Hitachi Data Systems and JDSU solution:

Benefits

- Deliver differentiated high-value premium services, such as broadcast video.
- Confidently meet quality of service (QoS) expectations of high-value customers.
- Cost-effectively instrument broad regions to ensure wide delivery of premium services.
- Extract real-time performance data to proactively optimize network parameters, policies and QoS.
- Predict and resolve problems before they impact customers.
- Rapidly identify and resolve end-customer experience-impacting issues.
- Create analytics platform for content providers and 3rd parties to access network data for applications, including assurance, service level agreements (SLA), policy and new revenue services.
Features

- Unparalleled visibility into Layer 1-7 performance and metrics, all the way to the network edge.
- Real-time, granular data collection, correlation, and analysis; live QoS view of all LTE Broadcast video channels.
- Simultaneous statistical analysis of millions of metrics and billions of packets per second; reports utilization, loss, and jitter for broadcast video channels.
- On-demand or dynamic trigger-based capture, packet analysis and/or troubleshooting.
- Self-optimizing dynamic thresholds based on real-time trend analysis.
- Proactive alerts to drive user actions or perform adaptive monitoring; detect outliers in seconds.
- Complete platform, including data capture, storage and computing to analyze the “big data” in the network.

**JDSU PacketPortal** provides immediate visibility and insight into network and video service performance, right to the network edge. PacketPortal intelligent visibility can be embedded anywhere in the network. It performs line-rate content inspection and delivers critical performance metrics and data feeds to centralized software systems, such as streaming data platform from Hitachi Data Systems. This platform delivers the advanced computational power required to provide real-time intelligent data analysis and performance monitoring. It leverages Hitachi Content Platform, which provides a custom, metadata-rich platform for information correlation and analytics applications.

With streaming data platform from Hitachi Data Systems and JDSU PacketPortal, operators can leverage the “big data” in the network to create new business models and revenue opportunities. Hitachi Data Systems and JDSU provide a solution that equips operators with a revolutionary approach to collecting, correlating, capturing and analyzing granular data and customizable key performance indicators. It gleaned information from thousands of points in the network, in real time.

The joint solution provides a platform for selective, on-demand and autonomous drill-down capabilities triggered by thresholds. An operator can capture and store data of interest for deeper analysis, correlation, and trend analysis. With this solution, operators can deliver specific services, such as analytics for premium video services. Or, they can deliver a complete platform that 3rd parties or content providers can use to monetize the data in their network.

**Fine-Grain Real-Time Analytics for Premium Video Broadcast Sporting Event**

The Hitachi Data Systems and JDSU solution ensures real-time granular visibility and analysis across the entire network. Consider how the solution can be applied to a major sporting event to ensure that no one misses a frame (see Figure 1).

- Multiple angles of video filmed at stadium.
- LTE Broadcast to premium subscribers in the stadium.
- LTE Broadcast to premium subscribers in bar district and select locations.
- PacketPortal instrumented throughout broadcast area.
- Video broadcast data gathered by PacketPortal and analyzed by Hitachi Data Systems technologies.
- Operator monitors service in real time to ensure consistent quality.
- High-quality video experienced by premium user.
Dashboard for Premium Video Analysis

For ease of operation, the joint solution provides a dashboard for an at-a-glance overview of performance across the network (see Figure 2).

- QoS view of all LTE Broadcast video channels to the edge.
- Measure and report utilization, loss, and jitter.
- Measure and report packet loss.
- Selective deep packet sampling.
- On-demand packet analysis for troubleshooting.

For more information on HDS and JDSU, please visit http://www.hds.com/partners/alliance-partners-and-program/jdsu.html

Figure 2. Dashboard allows administrators to easily assess QoS.