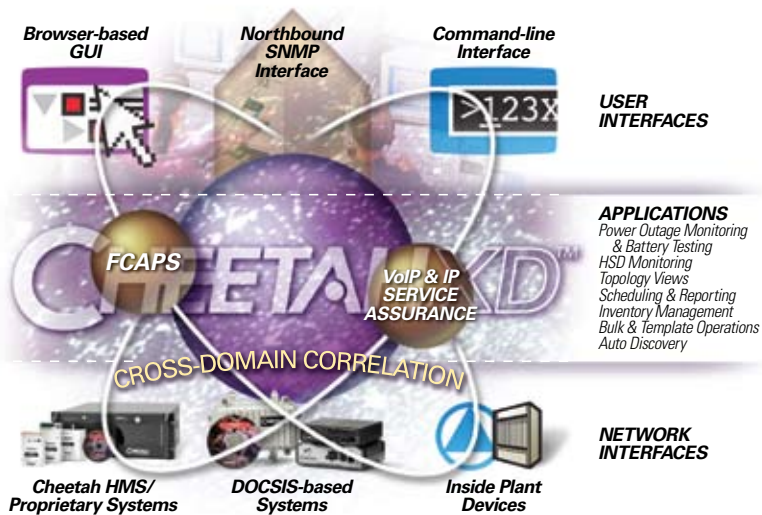


Service Assurance Platform for HFC and IP Networks

Tollgrade's next generation enterprise service assurance platform – CheetahXD™ is a cross domain network management and operational support platform that is based on proven industry standards, and offers a suite of applications for the status and performance monitoring of HFC, DOCSIS®, IP and VoIP networks.

The built-in suite of applications help pro-actively monitor, manage, and test Hybrid Management Sub-layer (HMS), DOCSIS, and legacy devices in Broadband HFC distribution systems. CheetahXD applications offer an enhanced experience when used in conjunction with the multi layered Tollgrade DOCSIS and standard HMS transponders. A full range of VoIP test suites and metrics are supported. CheetahXD also supports HMS based network elements from other vendors that span these HFC and DOCSIS domains. A northbound SNMP interface allows for the forwarding of all CheetahXD alarms into registered external systems.



Reduce cost and increase performance with proactive maintenance

CheetahXD builds upon a framework that includes customizable applications to perform provisioning & configuration, fault management, performance management and a suite of administration and diagnostics tools

Primary Applications

Configuration & Provisioning

CheetahXD provides an auto discovery engine allowing operators to selectively auto discover particular types of devices. Custom alarm profiles for various devices types in can be setup to be automatically downloaded to the devices upon discovery, dramatically reducing provisioning times through minimized user input.



Fault Management

The Notifier application in CheetahXD offers real time visibility into impairments that occur in the system and based on an operator's configured alarm criteria. The interactive and flexible application allows users to customize layouts, create dynamic filters, perform sorts and also launch third party applications based on the details of an alert. This allows operators to quickly integrate other systems such as trouble ticketing system into the CheetahXD framework. CheetahXD also comes in an Enterprise Fault Management System (EFS) offering that allows the EFS system to be deployed at corporate or divisional centers that require visibility into the alerts at regional CheetahXD systems.



Performance Management

CheetahXD provides a suite of performance management applications through its near real time Data Display, Scheduled Measurements and Reporting functions. These applications allow operators to initiate on demand and scheduled data collection and displaying of crucial parameters and offer various formats to export and present the data collected. Both Data Display and the Scheduled capabilities of CheetahXD offer a unique mix of applications to pro-actively measure and allow the operator an opportunity to take corrective action prior to service affecting degradation.



Power Supply Testing

Battery Analyst, an automated background power supply testing application allows operators to define the time periods to selectively test the power supplies and batteries. The application dynamically performs standby testing on these supplies and presents the operator an analysis report based on the pass/fail criteria. Summary reports (available in PDF and CSV formats) reveal trends that enable targeted maintenance repairs and benefit operators by reducing maintenance costs for routine battery testing, as well as pinpoint potential problems before a commercial outage occurs.



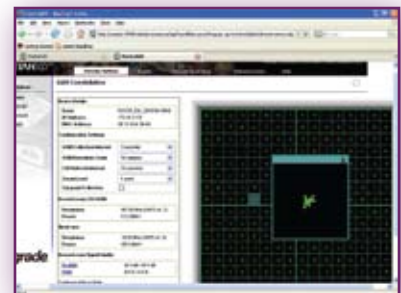
IP Service Assurance

A collection of integrated IP and HFC test applications in CheetahXD allow operators to accurately pre qualify an HFC segment's ability to provide Digital voice service. The VoIP test applications provide information on call setup and teardown as well as progress and statistics from the signaling plane. Near-end metrics from the calling client provide results for delay, loss, jitter and are summarized in a uniform mean opinion score (MOS). Bidirectional results are obtained where supported through RTCP-XR reporting.



These test results obtained during service turn could be benchmarked and used for comparative purposes as the number of subscribers increase. Through accurate remote trouble isolation, operators can continue to reduce their maintenance and operational costs

As part of its IP service assurance solution, the QAM constellation application that is available on certain types of Tollgrade DOCSIS transponders allows operators to quickly identify and diagnose symbol modulation performance issues in the RF plant. The application displays information on the Upstream/Downstream frequency and power, RX MER, EVM and Rx Error Rate on Code words for Pre/Post FEC.



For more information

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