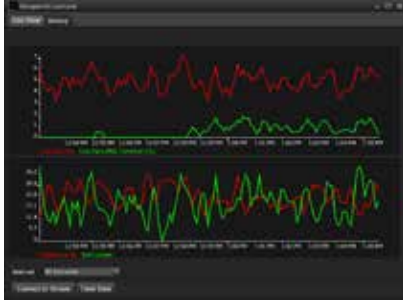




Intraplex® LiveLook

Intelligent Network Analytics



GatesAir's Intraplex® LiveLook application for IP Link, NetXpress™, and HD Link™ provides advanced network analytics and monitoring capabilities at an affordable price. It is an invaluable tool for optimizing and monitoring network performance.

Broadcasters are increasingly using IP networks for audio contribution and distribution. While IP networks provide clear benefit for both cost and flexibility, there are network impairments which must be overcome to realize the reliability required for broadcast application. While the Intraplex® IP Link platform provides several packet loss mitigation techniques, it is essential to understand the patterns of packet losses as well as other impairments on the network connection to optimize these techniques.

Intraplex LiveLook provides both a real-time analytics as well as a monitoring and notification platform for the IP Link audio codec systems. The analytics capability of LiveLook uses Burst Packet Loss modeling technique to analyze the patterns of packet losses, which is then used by the internal decision tree to provide recommendation on the most effective packet loss mitigation technique of the IP Link to apply.

The monitoring capability can simultaneously collect long term statistics on multiple audio streams, which can be used for historical analysis. The notification capability creates a separate alarm log for each audio stream and can optionally send email notification to the user on the state of the audio stream.

Product Features

- Real-time packet loss modeling for pattern analysis
- Recommendation on packet loss mitigation technique to apply
- Logging capability for historical analysis and SLA monitoring
- Rich graphics library with the ability to graph multiple statistical traces
- Email notification
- Simultaneous monitoring of multiple streams across different IP Link systems
- LiveLook for HD Link monitors, logs and generates email notification for radio performance parameters such as SNR, Rx Level and any changes for the system state

Specifications

Specifications and designs are subject to change without notice

General	
Platform Requirements	<ul style="list-style-type: none">• Windows or Linux operating system• Java Runtime Environment (JRE) version 7
Connecting to IP Link Streams	<ul style="list-style-type: none">• Unicast streams – connect to either Transmit or Receive end of the stream• Multicast streams or streams with no return path – connect to the Receive end of the stream• Requires less than 300 bps of bandwidth per connected stream• Connection status for streams• Persistent configuration between application restarts
Graphics	<ul style="list-style-type: none">• 2 Chart windows in LiveView and History view• X axis: Wall clock time; minimum interval is 5 seconds• Up to 4 user selectable graph traces (see available traces) per chart windows• Zoom in/out capability
Packet Analysis	<ul style="list-style-type: none">• Burst Packet Loss analysis based on RFC 3611• Statistical Traces<ul style="list-style-type: none">• <i>Network Loss Rate</i>• <i>Loss Rate after Correction</i>• <i>Number of Packets Lost by Network</i>• <i>Number of Net Packets Lost</i>• <i>Number of Packets recovered by FEC</i>• <i>Burst Losses</i>• <i>Isolated Losses</i>• <i>Burst and Gap Density</i>• <i>Current Buffer Delay</i>
Logging	<ul style="list-style-type: none">• Configurable log file interval: 1 to 7 days• Ability to load multiple log files using range of days or manually selecting files in the chart window
Report Generation	<ul style="list-style-type: none">• Customizable HTML reports on selected logged data• Provides summary of packet statistics• Provides recommendation on packet loss mitigation technique (FEC or Time Diversity) based on loss analysis
Email Notification and Event Log	<ul style="list-style-type: none">• Separate event log for each stream with date and time of stream state changes• Optional email notification for each connected stream based on user criterion