

Monitoring financial market data performance

Trading applications require fast access to financial exchanges and trading platforms. Because milliseconds often determine whether or not an order is fulfilled, monitoring network performance between a client location and a financial exchange, ECN or trading platform is critical.

Reliance Globalcom's network performance monitoring tool, Yipes HawkEye, is a unique network performance measurement system that provides real-time, location-specific performance data on network latency, jitter and packet delivery.

Yipes HawkEye *fn* provides detailed visibility into network performance between client locations and the financial exchanges on which they depend.

The premium monitoring system reports on three critical network performance metrics:

Latency - Latency is the delay in packet transmission across a network. Yipes HawkEye provides route-specific latency data between the customer locations and financial exchange network interfaces.

Jitter - Jitter is the variation of latency and refers to recurring changes in the timing of a data stream. Monitoring and limiting jitter is important to detecting issues with market data and trading applications.

Packet delivery - Packet delivery is the percentage of data packets successfully delivered. It is a defining metric in determining the consistency and reliability of network services.

Reliance Globalcom provides the subscription-based Yipes HawkEye *fn* service by provisioning managed network measurement devices at both customer premises and the locations of large financial exchanges, ECNs and trading platforms. These measurement devices transmit and receive thousands of UDP data packets per minute over specified VLANs after which the Yipes HawkEye system processes and computes this data. Customers can view real-time data displays in map view and graph view via the YipesCARE customer web portal.

Map View - Map View provides an interactive map view of the performance between key locations on Reliance Globalcom's global network. It provides a



above: Map View

right: Graph View

snapshot of performance over the previous 24-hours on each of the three key network performance metrics.

Graph View - Graph View allows customers to see network service performance on a daily, hourly, or minute-to-minute basis in graph form. This view also offers a function by which customers can receive raw performance data in .csv format via email for further quantitative analysis of key service performance metrics.

Reliance Globalcom offers two premium Yipes HawkEye services:

Yipes HawkEye *fn*

Yipes HawkEye *fn* offers visibility to network performance between client locations and financial exchanges, ECNs and trading platform locations. This service addresses the needs of brokerages, clearing firms and buy-side firms whose trading success depends upon low network latency and high reliability.

Yipes HawkEye EDGE

Yipes HawkEye EDGE allows network managers and IT administrators to monitor network performance between enterprise locations whether local or around the globe. Yipes HawkEye EDGE is an indispensable tool for network administrators managing any range of enterprise IT services, including jitter-sensitive voice, video or real-time applications.