



VX1000 VoIP Expert VoIP Software Solution

**Comprehensive End-to-End VoIP Quality
Analysis**

Overview

The ability to deploy new VoIP service in a timely, cost-effective manner while ensuring network interoperability is critical to a Service Provider's success. VoIP telephony delivers a wide range of benefits, however combining Voice, Data and Video services on a traditional POTS or Next Generation Converged IP network is risky business and requires careful planning.

On any given IP network, a mixture of email, web, file transfer, instant messaging, and other traffic is present. When VoIP service is added to this traffic mix, sufficient network bandwidth may not be available to support reliable communication. Traditional "best effort" networks furthermore, have no mechanisms for prioritizing traffic and the situation becomes even more complex when enterprise networks are used in conjunction with wide area networks (WAN).

The inherent problems of packet switching, including packet loss and delay jitter, also influence VoIP performance, so measuring end-to-end quality of service (QoS) presents many challenges.