Telchemy

Actively Managing Multimedia

Managing Enterprise IP Telephony

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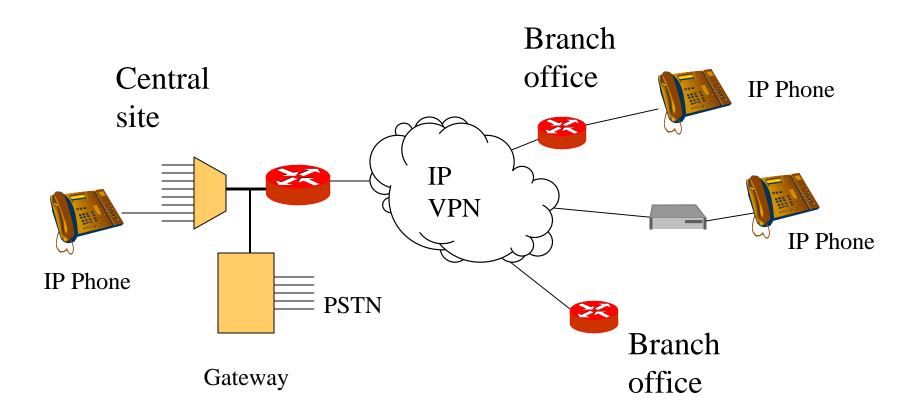
Managing Enterprise VoIP

- Goals of Enteprise VoIP Management
- The Enterprise VoIP Environment
- Ideal approach to VoIP fault/ performance management
- Application to Enterprise VoIP management
- About Telchemy

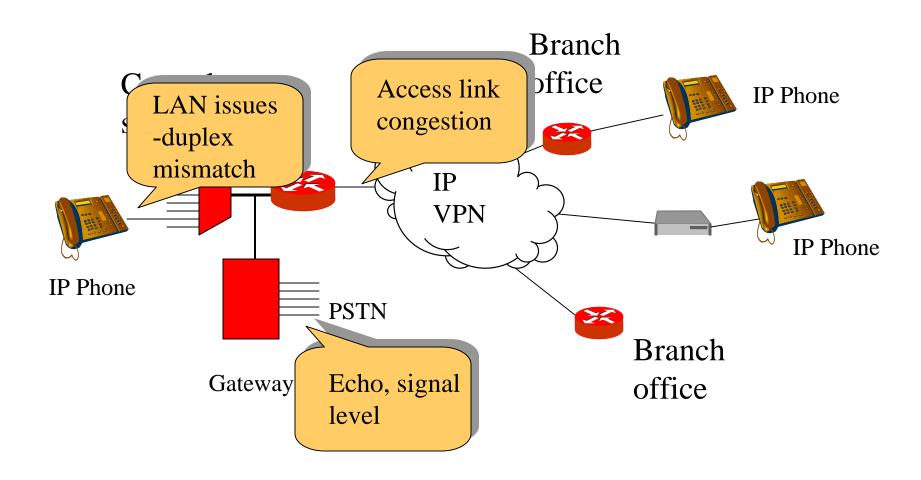
Goals

- Build confidence in deploying VoIP using tools to monitor and manage
- Immediately identify and diagnose service quality affecting problems
- Extend reach of monitoring/ management tools to branch offices and teleworkers
- Integrate "best of breed" VoIP management tools into IP PBX and management system infrastructure

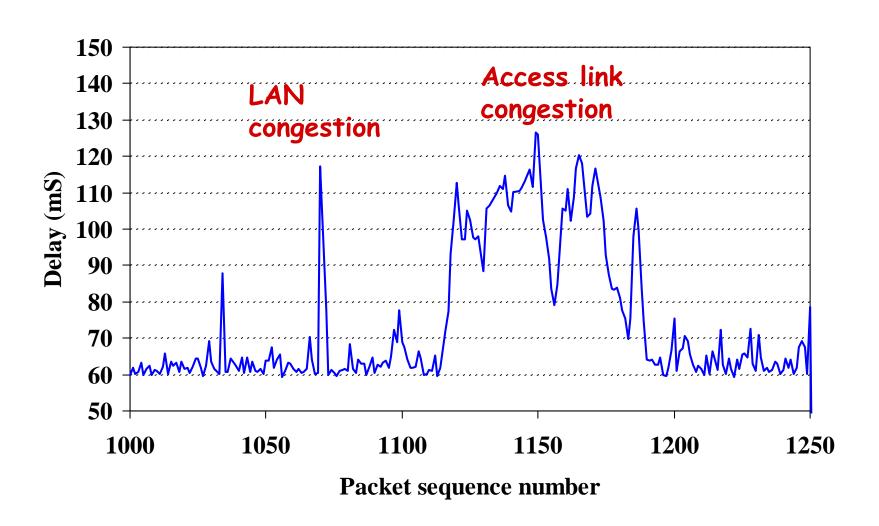
Typical Scenario



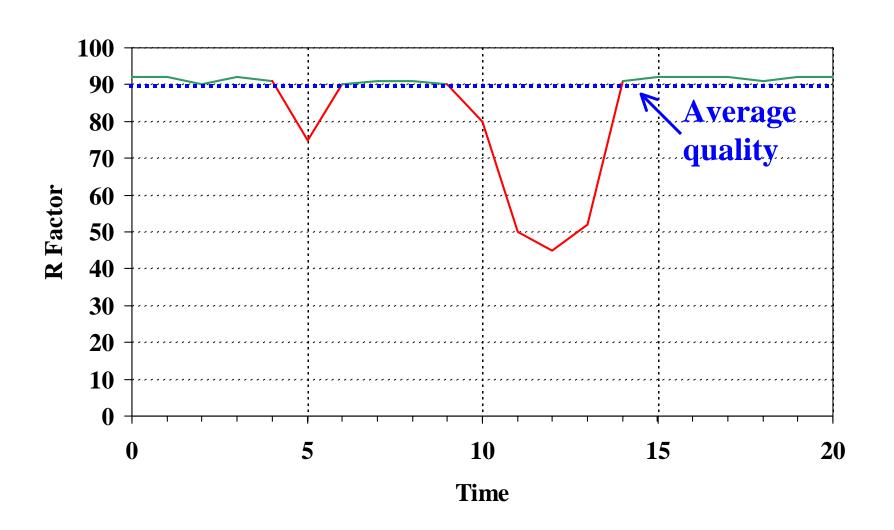
Typical Challenges



Impact of network issues



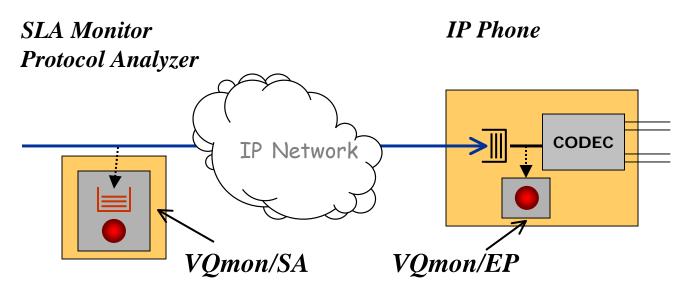
Result - time varying quality



Key message!!!!!!

- Not enough to look at average packet loss, jitter or call quality derived from these
 - Call can have a 1% average loss rate and 5mS
 of jitter but be severely impaired
 - Call may have 5% average loss rate and 20mS of jitter but sound acceptable
- Ideal tool detect and diagnose the problems that your users/subscribers would notice and potentially complain about

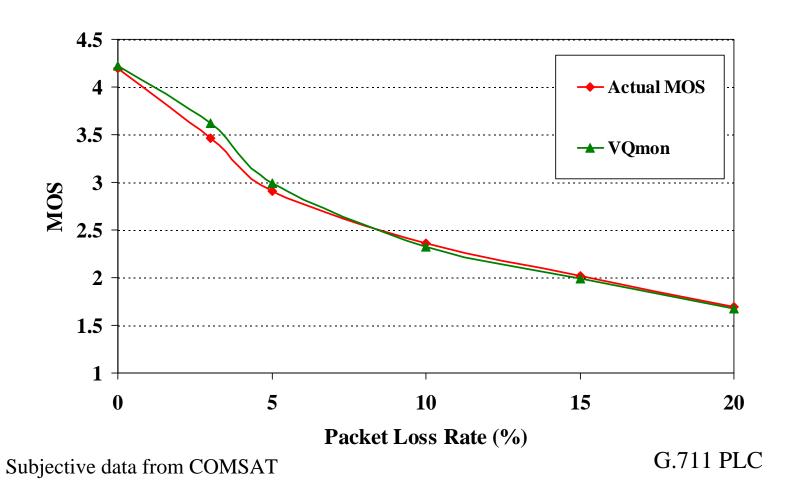
Embedded call quality monitoring



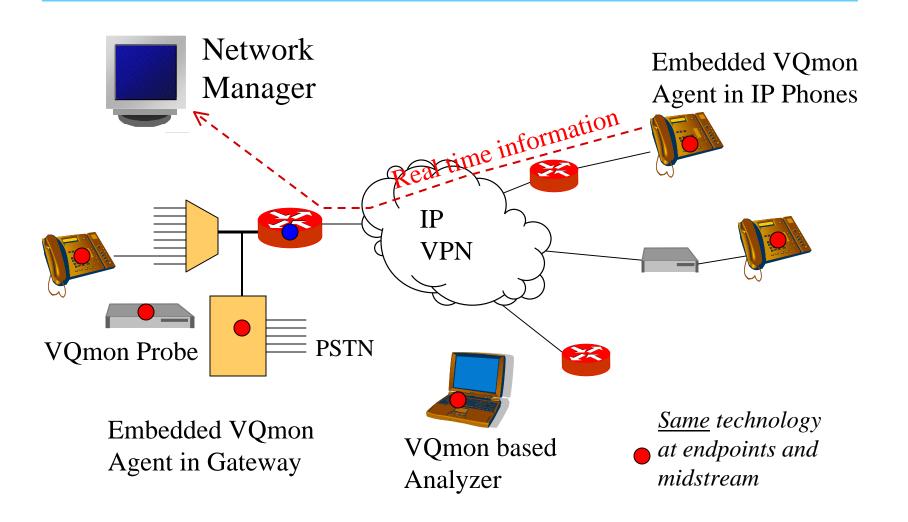
VQmon provides *real time monitoring* of large numbers of VoIP calls, measures *time varying* and *transient* impairments and provides a *perceptual quality score* with diagnostic data

Same technology can be embedded into IP Phones/ Gateways and into probes and analyzers

How accurate?

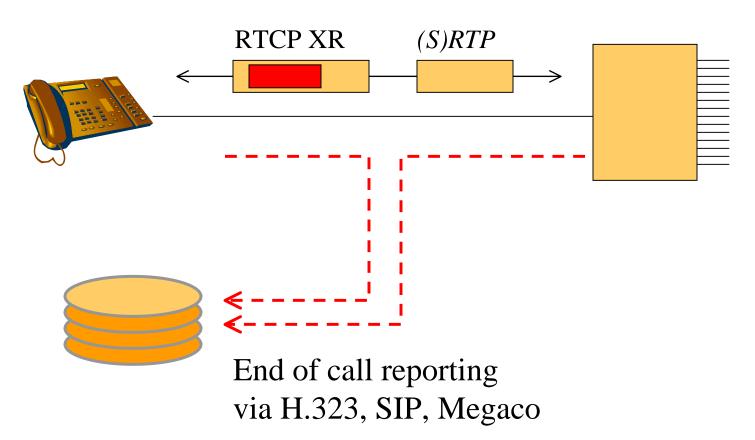


Ideal solution



Integrating call quality reporting

Media path reporting



Summary

- Crucial to measure and incorporate time varying impairments
- Need to support both
 - Embedded monitoring, integrated with media path and signaling protocols
 - Midstream monitoring using probes and analyzers
- Need a widely supported, multi-vendor solution

About Telchemy

Focus

- Founded in August 99, first product launched in April '01

Focus

 Providing essential management infrastructure for IP based Voice and Video services

Technology

Two "Best of breed" products deployed since mid-2001

Market leadership

- Companies developing or marketing products supporting VQmon include:-
 - Acterna, Artiza, Brix Networks, Brooktrout, Delta Information Systems, Empirix, Finisar, Fluke, Inet Technologies, ipNetFusion, Nortel Networks, Spirent, Texas Instruments, Trinity Convergence, Visual Networks