Is the Service Quality meeting your Expectations?

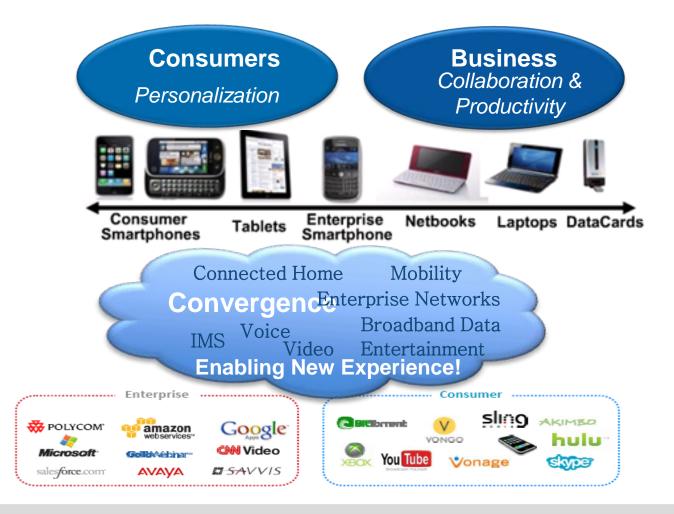
In the performance of the perfor

Vikas Arora Chief Technology Officer



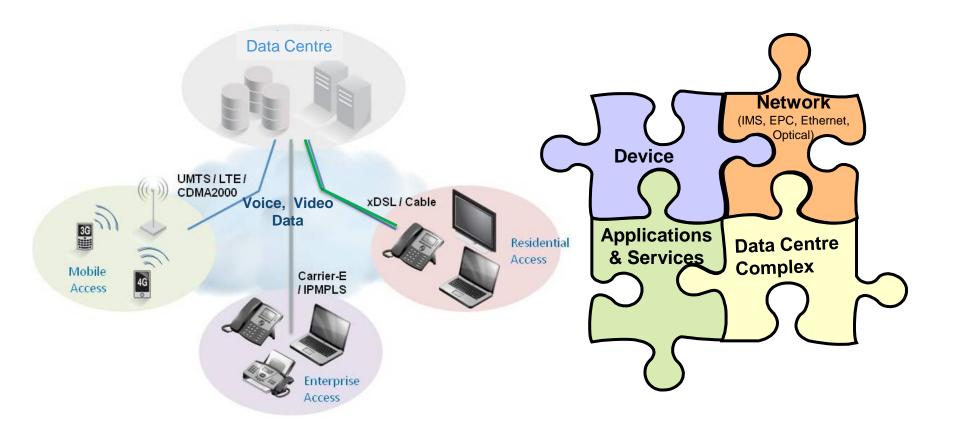
Service Assurance

Networks in Transition: Fixed-Mobile IP Convergence



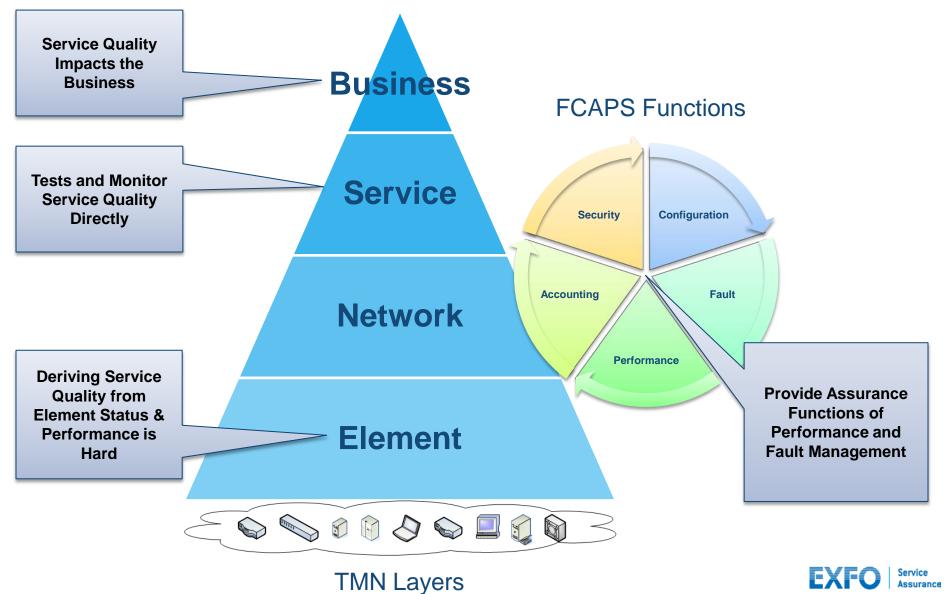
Connecting – Users with apps; apps with networks and networks with each other

Delivering and Managing Network & Service Quality: Key Pieces of the Puzzle



Deliver rapid trouble identification, segmentation, isolation and SLA assurance

What Service Assurance Is



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Proactive Testing

Proactive Monitoring



- Continuous, Repeatable, Reliable, Accurate, Representative
- > Suitable for Measuring SLAs and Service Objectives
- > Isolate the Problem

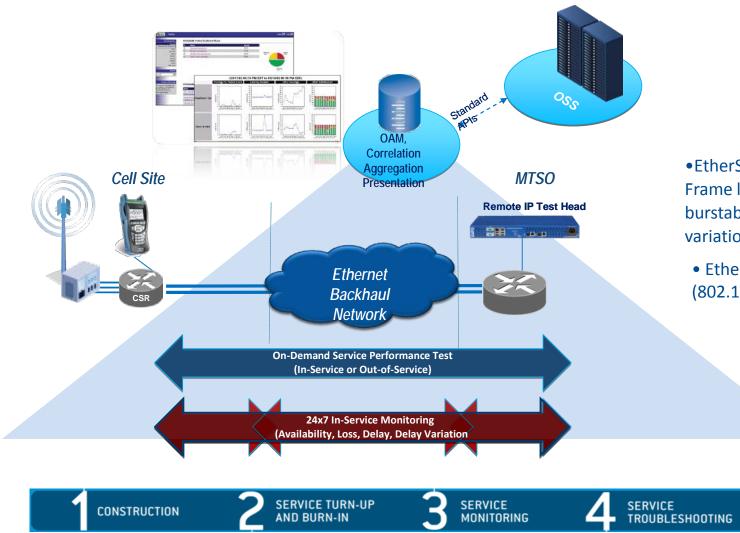
Test the Service, not the Server

- Measures Customer 's True Experience & True Behavior
- > Correlated Views, End-to-End
- > Detailed Traces for Diagnosis

Monitor the Service, not the Circuit

Service Assurance

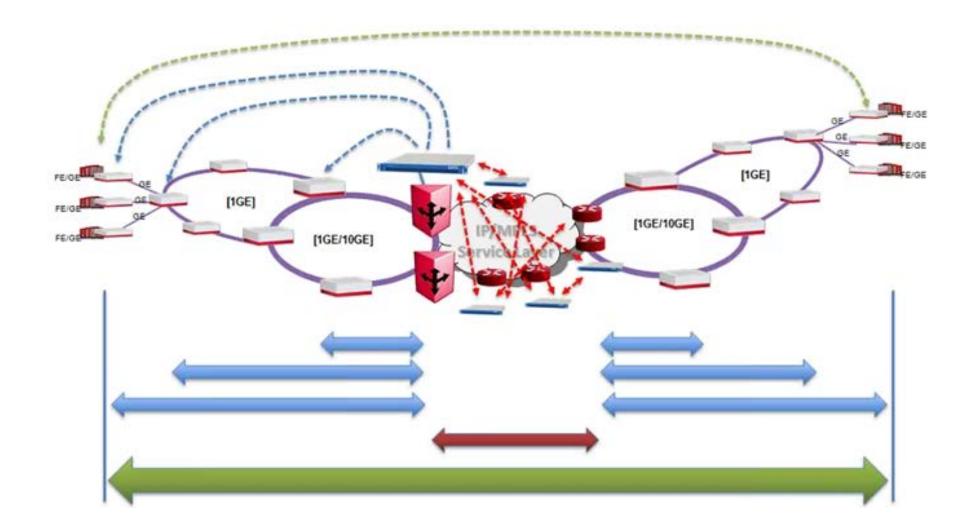
Example: Ethernet Mobile Backhaul Turn-up through Operational Monitoring



•EtherSAM Y.1564 for Turn-up Frame loss, delay, throughput, burstability, frame delay variation

• Ethernet OAM standards (802.1ag, and Y.1731)

Standards Based Segmented and End-to-End Monitoring & Service Assurance



Service Assurance Users



Network Operations

- Monitor network quality; troubleshoot degradations
- Verify network configuration changes.

Network Planning / Traffic Engineering

- Monitor network loading trends.
- Plan network restructuring





Service Management

- Monitor adherence to SLAs
- Isolate SLA non-conformance.

Customer Care

- Determine subscriber service status
 - Initiate needed subscriber tests



Business Managers / Marketing

Monitor service uptake & marketing campaign effectiveness

Summary

- Network & Service complexity is increasing, Network Operations require
 - A highly efficient turn-up testing, troubleshooting, performance monitoring and service assurance framework to keep the cost down and improve efficiency
 - In order to ensure performance, service delivery and quality of experience (QoE), complete visibility and access to key interfaces is essential