



QUALITY OF EMERGING SERVICES

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<u>Participants</u>	

- [Definition](#)
- [Metrics](#)
- **World Class Performance**
- **Best Practices**
- **Best-in-Class Recognition**

I. DEFINITION

Quality of Emerging Services is based on the platforms and capabilities to deliver those services. As such a definition of the emerging services are required. Emerging services are those introduced within the last 5 years or significantly launched throughout the telecommunications networks within the last 5 years. (Internet qualifies as an emerging service.)

Internet & Multimedia

- Dial-up Access
- Dedicated Access
- IP Voice
 - IP Radio
 - IP Telephony
- Video
 - Broadcast
 - 2 way/Conferencing
- Multicasting Multimedia
- Multimedia on demand
- Information "Browsing"
- Virtual Private Network
- Email+
- Chat

- Electronic Bulletin Board
- Entertainment & Games
 - Multi-party games
- Web Publishing
- Web/Email Advertising
- Broker/Stocks
- Medical Services
- Virtual Reality
- Electronic Commerce
 - Electronic Cash (Banking)
 - Trusted 3rd Parties
 - Key Management
 - Digital Signature
 - Secure Sockets

Mobile Remote Communications/Wireless

- Satellite
 - Broadcast Video Distribution
 - Internet Access (Downlink)
 - Imarsat
 - LEO
 - Iridium
 - Global Star
- Cellular
 - Analog
 - Digital
 - TDMA
 - GSM
 - CDMA
- Global Positioning System (Location)
 - Intelligent Transportation System
- Paging w/ text or voice
- Internet Access
- Remote Sensing
- Wireless LANs
- Packet Data Transport
- Email
- Point to Multipoint Video
- FAX
- Global Network

Broadband

- Cell Relay
- Permanent Virtual Circuits
- Switched Virtual Circuits

Multi-media Access Asymmetric
Asymmetric
 ADSL
 Cable TV
 Internet Access
 Telephony
 Video Broadcast
 Digital Satellite
Symmetric
 Frame Relay
 Switched Mega Data Service
 ATM

Quality of Emerging Services is not based on plain old telephone service (POTS)

II. METRICS

Quality of Emerging Services can best be measured by establishing attributes of quality and refining those attributes into metric definitions. Below are listed the attributes from this workshop. Subsequent workshops need to focus on the definitions for these attributes. Once accomplished, the metrics could be collected and weighted and would be valuable to base decisions.

Attributes

Product/Service related attributes

Performance
 Error Free
 Latency/Throughput
 Availability
 Speed
 Response Time
 Access Time
 Good Quality
 Accuracy

Reliability
 Availability
 Mean time to repair
 Delivery – Status/Confirmation
 Robustness
 Two Phase Commit (Transactions)
 Dependability
 Session Stability

Scope of Measurement (Global vs. Local)

Friendly / Usability
Congestion Friendly
User Friendly
Easy Service Portability
Adaptability
Expandability
Flexibility
Maintainability

Security
Availability
Privacy
Confidentiality
Integrity
Accountability

Business related attributes

Effective Customer Support
Technical Support
Billing
Provisioning
Cessation

Customer Business Fit
Cost Effective
Provides Value
Features & Functionality
Satisfies Customer Needs – On budget, Timely, and Fit for purpose
Effectiveness

Differential Guarantee Service
Priority
Best Effort vs. Guarantee
Service Level Agreements (Variety and Measurements)

III. PARTICIPANTS

The working group participants consisted of the following industry professionals.

Name	Affiliation
Chen, Chi-Ming	AT&T

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