Building on Convergence to Deliver the right User Experience

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October 2005
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Fixed Mobile Convergence is…

All about Convenience, Simplicity and Freedom of choice for the end-user

All about delivering simple, integrated services
FMC in Network Evolution

Wireless
- PTT
- Mobile TV
- Voice

Wireline
- Dispatch
- IP TV
- IP PBX
- VoIP Apps. Skype / Vonage

Broadband
- MMD
- FMC

Transport Packetization
- Voice over WLAN
Fixed Mobile Convergence

Enabling Technologies...

Wide adoption of SIP and associated clients
Dual mode devices availability and variety
VoIP and Multimedia Services spread

OSS / BSS
Provisioning
Activation
Billing
Monitoring

TDM & Packet Interworking

CDMA/GSM
UMTS
PSTN

QoS Enabled IP Backbone

Service Plane

HSS
Policy Controller
CSCF
Service Enablers
MGCF

Service Enablers

Back office evolution to IP Services Management and flexible Billing

IMS/MMD: SIP enabled Service delivery framework

Entertainment, Information

Communication, Multimedia, Entertainment, Information

Broadband Access with QoS mechanisms to differentiate applications

IMS/MMD: SIP enabled Service delivery framework common across all Access

Wide adoption of SIP and associated clients
Dual mode devices availability and variety
VoIP and Multimedia Services spread
Important QoE Factors

End user touch points

- Communication, Multimedia, Entertainment, Information
- Service Plane
- HSS

- Common client framework across Apps
- OTA client distribution & service activation
- Self / automatic flow through provisioning
- Content rendering
- Reduced Sign on
Important QoE Factors

Applications and their performance

- Application diversity
- Application creation and runtime environments
- Ability to bundle applications
- Flexible billing
- Performance monitoring
Enhanced Service Control

- Create compelling services by linking applications
- Provide customized services to targeted segments
Important QoE factors

**Interworking**

- Between IP domain and Circuit domain
- Roaming and Performance
- Gateways between Legacy apps and new apps

**Communication, Multimedia, Entertainment, Information**

**Service Plane**

**Devices & Clients**

- 3G Wireless
- WiFi/WiMax
- Cable
- FTTH
- VDSL

**Access**

**Transport**

**Control Plane**

**OSS / BSS**

- Provisioning
- Activation
- Billing
- Monitoring

**TDM & Packet Interworking**

**MGW**

**CDMA/GSM UMTS PSTN**

**Important QoE factors**

- Communication, Multimedia, Entertainment, Information
- Provisioning
- Activation
- Billing
- Monitoring
Bridging WLAN and CDMA

**Mobility Gateway**

- SIP to ANSI-41 / MAP

- WLAN in building

- Dual Mode SIP client

- IP PBX + Mobility

- Residual VoIP & Data + Mobility

- Mobility Gateway

- Inter-domain Interworking

- ANSI-41

- HLR

- CDMA

- Dual Mode SIP client

- SIP Voice & Multimedia

- CSCF

- MGCF

- MCS
Important QoE factors

*End-to-End*

- End to End Performance Testing and Validation
- End to End Security: Protect user, network and device
Fixed Mobile Convergence
Delivering Quality of End user Experience

Communication, Multimedia, Entertainment, Information

Service Plane

HSS
Policy Controller
CSCF
MGCF
Service Enablers

Control Plane

Transport

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End-to-End

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End-to-End
Thank You