E2E QoS
Converged Service Delivery

Noëmie Simoni (Telecom ParisTech)
Philippe Coudé (SFR)
Service convergence

Network Convergence
Same services from different networks

Service Convergence
Integration of features from different providers

ETSI WS QoS / QoE - 21-22 Sep. 2010
Converged service delivery

Service delivery

SP 1

SP 2

Media delivery

Access Network

IP (Core)

Content Provider

Customer

View

Content
Goal

• **What**: End to End QoS in NGN Context (mobility, heterogeneous, User Centric)

• **Why**: Because each level contributes at this QoS
  - Equipment: Computing delivery (CPU and memory)
  - Network: Media delivery
  - Service (components and platform): Service delivery

• **How**: With top down approach, service composition (SoA) and user preferences
E2E QoS Continuity

Seamless Userware

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Dynamic Service Composition

Customer (Order)

Product Catalogue

Resources

Service
Network
Equipment
Session Continuity : QoS E2E dynamic management
(Terminal, Access Network, Core Network, Service Level)

- Red: Session regarding User request
- Blue: Session after SE4 deterioration
- Green: Session after mobility

➢ Community = Component of service functionally equivalent and QoS equivalent.

Core Network IMS
Access Network
Service Request

Service composition regarding User Needs
= SE4+SE6+SE8

Community Management
Dynamic Provisioning per functional or equivalent QoS = SE2+SE6+SE8

E2E QoS Maintaining Control
Dynamic re provisioning after mobility
= SE3+SE6+SE8

ETSI- SEP. 2010
E2E QoS (traceability)