

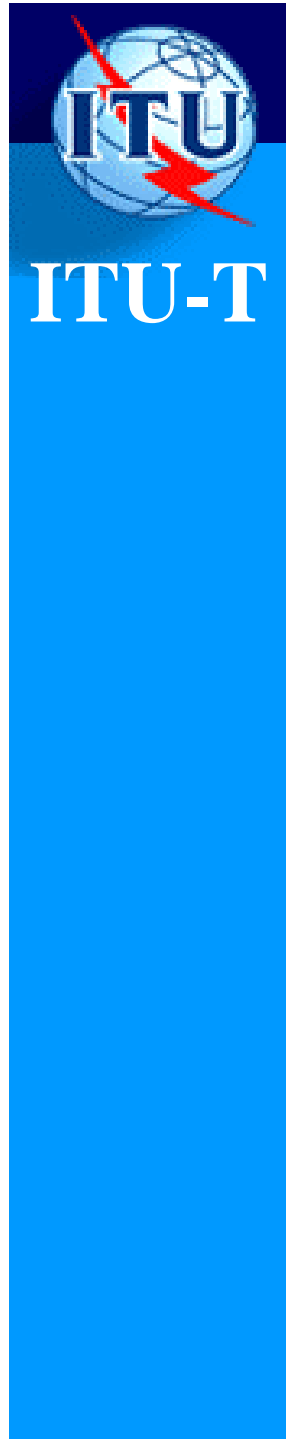


International Telecommunication Union

NGN Technical Workshop Session VI - NGN Technology II

15 March 2005

ITU-T NGN Technical Workshop
14-15 March 2005, Jeju Island, Korea



Topics and Speakers

- o Quality of Service
 - Hui-Lan Lu, Lucent Technologies
- o Naming, Addressing, and Identification
 - Khalid Ahmad, TTA
- o Accounting, Charging, and Billing
 - Tae Sang Choi, ETRI



Session Context

o NGN vision

Synthesis of PSTN and Internet technologies in an innovative packet-based infrastructure that overcomes the limitations and retains the strengths of both

o NGN features

- Multiple broadband QoS-enabled transport technologies
- Service functions independent of transport technologies
- Unfettered user access to competing providers/services
- Generalized mobility → consistent/ubiquitous services

⇒ The issues addressed in this session may be among the most difficult we will face in achieving a global NGN!

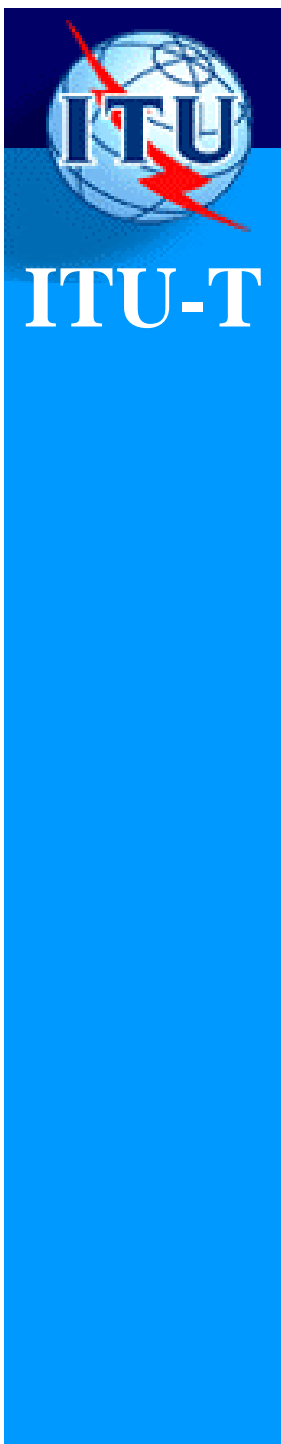


ITU-T

Technology Attributes Compared

Attribute Technology	Quality of Service	Naming, Addressing, Identification	Accounting, Charging, Billing
PSTN	<ul style="list-style-type: none">• Quality assured• Resource reservation required	<ul style="list-style-type: none">• Manual name/number association• DNS not required	<ul style="list-style-type: none">• Usage and distance based• Session accounting required
Internet	<ul style="list-style-type: none">• “Best effort” service• Resource reservation not required	<ul style="list-style-type: none">• Automated name/address association• DNS required	<ul style="list-style-type: none">• Usage and distance independent• Session accounting not required

⇒ NGN must provide unifying technology solutions.



Objectives and Session Plan

o Objectives

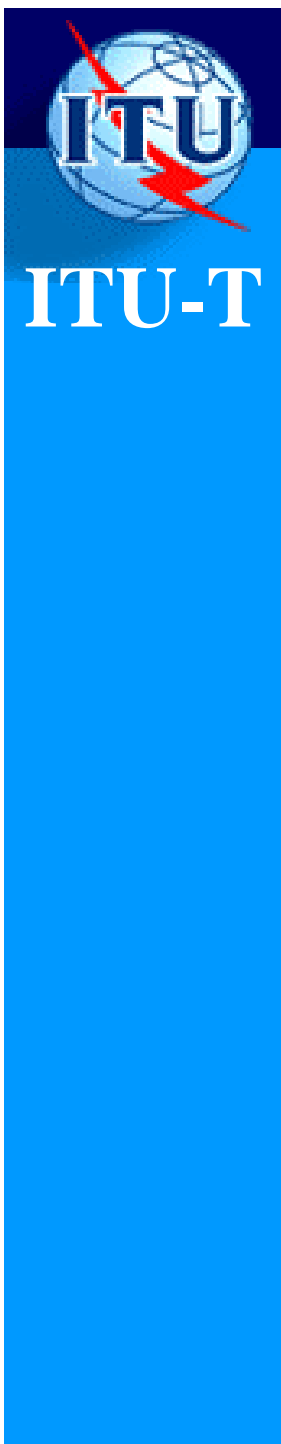
- Review NGN requirements (what's needed?)
- Survey enabling technologies/standards (what's available?)
- Identify gaps, required new standards (what's missing?)

o Session Plan

- Introduction and overview 5 m.
 - Panelist presentations 1-3 75 m.
 - Summary and next steps 10 m.
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- 90 m.



Identify salient technical issues for more detailed interactive small group discussion (Session VII-2).



Possible Discussion Topics

- o **QoS**
 - How should the Q-Series Supplement 51 requirements be implemented in detailed NGN signalling protocol standards?
 - How will end-to-end QoS signalling support apportionment of delay, jitter, and loss in a multi-technology, multi-provider NGN?
 - Will standardization of traffic control and resource control be needed?
- o **Naming, numbering, addressing**
 - How will telephony (E.164) and Internet (IP, DNS) user identification mechanisms be reconciled or interworked in IP-based NGNs?
 - How will NGN user identification and location systems support PSTN/ISDN emulation?
 - What performance requirements should such systems meet?
- o **Accounting, charging and billing**
 - What NGN services will require new accounting, charging, and billing capabilities?
 - What specific new technical capabilities will these services require?

⇒ Focus on NGN **technology** (not policy or regulation) and on **Stage 1-3 solutions** for NGN Release 1. —