



ITU-T Workshop on Next Generation Networks (NGN) in Collaboration with IETF

1-2 MAY 2005, ITU HEADQUARTERS, GENEVA, SWITZERLAND

ITU-T has been working on the Next Generation Networks (NGN) standards for several years while the IETF has been working on standards viewed as essential to NGN. Based on an understanding of these activities, this workshop will primarily explore specific NGN issues.

Each session of the workshop will be co-chaired by a representative from ITU and IETF and will cover

the most important issues and related background that IETF and ITU want to address. The sessions will thus focus on better understanding the work under way in the two organizations and identifying areas where actions may be taken by ITU-T and IETF to further coordinate their work.

This workshop will be webcasted live on audio. Please see: <http://www.itu.int/ibs/ITU-T/ngn05>

PROGRAMME 1 MAY 2005

09:15-09:30 OPENING SESSION

Mr Houlin Zhao, *Director of the Telecommunication Standardization Bureau, ITU*

Mr Brian Moore, *Chairman of ITU-T SG 13 (NGN)*

Mr Brian Carpenter, *Chairman of IETF*

09:30-11:00 SESSION 1: REQUIREMENTS AND FUNCTIONAL ARCHITECTURE

Objective:

This session will concentrate on User, Service and Transport Requirements for NGN. The session will provide an overview of the current strategic direction of the ITU NGN activity and the IETF direction and positioning of global Internet standards. The applicable functional and structural architectures being developed by the two SDOs will be reviewed.

Co-chairmen: (ITU-T) **Mr Dick Knight**, *BT* and (IETF) **Mr David Meyer**, *Cisco Systems*

9:30-10:30 PRESENTATIONS

(ITU-T) **Mr Keith Knightson**, *Industry Canada*

(IETF) **Mr David Meyer**, *Cisco Systems*

Discussion Topics: **Mr Dick Knight**, *BT* and **Mr David Meyer**, *Cisco Systems*

10:30-11:00 DISCUSSION

COFFEE BREAK (sponsored by Cisco Systems)

11:30-13:00 SESSION 2: NOMADICITY AND MOBILITY

Objective:

Nomadcity and mobility cover a wide range of user scenarios, and are perceived in different ways depending on the background of the individual. This session aims to promote common understanding and solutions through examining different types of mobility and nomadcity and their associated requirements. Architecture models to support the various functions for the management of mobility and nomadcity will be identified and discussed. The impact of mobility and nomadcity in the realization of Fixed-Mobile Convergence (FMC) will also be considered.

Co-chairmen: (ITU-T) **Mr Naotaka Morita**, *NTT* and (IETF) **Mr Scott Bradner**, *Harvard University*

11:30-12:30 PRESENTATIONS

(ITU-T) **Mr Kirit Lathia**, *Siemens*

(IETF) **Mr Ted Hardie**, *Qualcomm*

(ITU-T) **Mr Bao Feng Zhang**, *Huawei Technologies*

(IETF) **Mr Hannes Tschofenig**, *Siemens*

12:30-13:00 DISCUSSION

13:00 PRESENTATION BY THE SPONSOR: "Cisco and the Service Provider IP NGN Journey",

Mr Jeffrey Spagnola, *President of Worldwide Service Provider Marketing, Cisco Systems*, followed by

LUNCH BREAK (sponsored by Cisco Systems)

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14:30-16:00 SESSION 3: QoS, CONTROL AND SIGNALLING CAPABILITIES

Objective:

NGN is intended to provide a measurable QoS assurance environment for customers, network operators and service providers for a range of applications, from non-realtime to realtime, from single medium to multiple medium. NGN is designed to provide QoS support to the customer end-to-end despite the diversity of end-to-end paths due to considerations such as varying infrastructure technologies, multiple operator domains and vastly different QoS capabilities in endpoints. The session will address requirements, architectures, control and signal capabilities for enabling end-to-end QoS. Among architectural issues for discussion, one in particular will be the need for an inter-provider NNI in relation to QoS.

Co-chairmen: (ITU-T) **Mr Neal Seitz**, *ITS* and (IETF) **Ms Allison Mankin**, *Shinkuro Inc.*

14:30-15:30 PRESENTATIONS

(ITU-T) **Ms Hui-Lan Lu**, *Lucent Technologies*

(IETF) **Ms Allison Mankin**, *Shinkuro Inc.*

(ITU-T) **Mr Keith Mainwaring**, *Cisco Systems*

(IETF) **Mr Hannes Tschofenig**, *Siemens*

15:30-16:00 DISCUSSION

COFFEE BREAK (sponsored by Cisco Systems)

16:30-18:00 SESSION 4: NETWORK MANAGEMENT

Objective:

This session will discuss the principles, architecture, requirements, information models, and protocols to support the communication of NGN management information across interfaces between NGN elements and NGN-related management systems and also interfaces between NGN-related management systems. For this purpose, activities currently underway in SG 4, the SG 4-sponsored NGN Management Focus Group, and partner organizations, including the IETF, will be summarized. Among topics to be discussed are management business processes, security of management, and NGN management principles.

Co-chairmen: (ITU-T) **Mr Dave Sidor**, *Nortel Networks* and (IETF) **Mr Bert Wijnen**, *Lucent Technologies*

16:30-17:30 Presentations

(ITU-T) **Mr Dave Sidor**, *Nortel Networks*

(IETF) **Mr Bert Wijnen**, *Lucent Technologies*

(ITU-T) **Mr Leen Mak**, *Lucent Technologies*

17:30-18:00 DISCUSSION

2 MAY 2005

09:00-10:30 SESSION 5: SECURITY CAPABILITIES

Objective:

This session will concentrate on the security-related aspects pertinent to NGN networks. The major goal of this work is harmonization of the approaches taken by 3G partnerships and the IETF and their systematic application to NGN and, ultimately, the selection of the existing protocols and their options as guided by the ITU-T Recommendation X.805. Among the key matters presently identified are key distribution, SIP end-to-end security, NAT traversal, end-user identity and authentication, privacy and security management.

Co-chairmen: (ITU-T) **Mr Igor Faynberg**, *Lucent Technologies* and (IETF) **Mr Jon Peterson**, *Neustar*

09:00-10:00 PRESENTATIONS

(ITU-T) **Mr Zachary Zelstan**, *Lucent Technologies*

(IETF) **Mr Jon Peterson**, *Neustar*

(ITU-T) **Mr Jiashun Tu**, *ZTE*

(IETF) **Mr Russ Housley**, *Vigil Security*

10:00-10:30 DISCUSSION

COFFEE BREAK

11:00-12:30 SESSION 6: EVOLUTION

Objective:

This session will consider the appropriate migration and interworking strategies for existing networks and services. Particular attention will be paid to the results from NGN Focus Group on several evolutionary steps, scenarios and milestones, as well as review of other networking, service and application evolutions in progress today. The session will also consider the technological developments impacting on NGN evolution and will examine various interworking functions and their implementation requirement.

Co-chairmen: (ITU-T) **Mr Keith Dickerson**, *BT* and (IETF) **Ms. Leslie Daigle**, *Verisign*

11:00-12:00 PRESENTATIONS

(ITU-T) **Mr Ghassem Koleyani**, *Nortel Networks*

(IETF) **Ms Leslie Daigle**, *Verisign*

(ITU-T) **Mr Keith Dickerson**, *BT*

(IETF) **Mr Gonzalo Camarillo**, *Ericsson*

12:00-12:30 DISCUSSION

12:30-13:00 WRAP-UP SESSION

Objective:

This session will draw together the key conclusions from the sessions and identify areas for follow-up actions.

Co-chairmen: (ITU-T) **Mr Chae-Sub Lee**, *ETRI* and (IETF) **Mr Brian Carpenter**, *IBM*

For updated information, please see: www.itu.int/ITU-T/worksem/ngn/200505

For a live audio webcast and archives, please see: www.itu.int/ibs/ITU-T/ngn05

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