



# ITU-T/GGF Workshop “Next Generation Networks and Grids”

GENEVA, 23-24 OCTOBER 2006

## Introduction

ITU-T is hosting a workshop *NGN and Grids* in collaboration with the Global Grid Forum (GGF) in Geneva, 23-24 October 2006.

ITU-T's Global Standards Initiative on Next Generation Network (NGN-GSI) is well under way and is responding to urgent market needs for global NGN standards. NGN offers increased quality and service features for users, independent of the underlying transport technology.

Grids have been widely used in the scientific community. Increasingly, Grids are being deployed within commercial settings. The Global Grid Forum is actively reaching out to communities such as the Telco community to advance Grid adoption, interoperability and scalability. Different scenarios for Telcos can be envisioned: Telcos may 1) specialize in network SLAs that are optimally suited to Grids; 2) use Grids for their IT internal needs; and/or 3) offer Grids as a managed service to customers.

## Objectives

The joint ITU-T/GGF workshop will bring together the telecoms industry and the Grid community to:

- Review the present status of applications, services and business opportunities in Grid networks and NGNs.
- Discuss future evolution for Grids and NGNs both in terms of business opportunities and related technical requirements.
- Identify relevant existing international standards as well as gaps in the standardization framework for Grids and NGNs.
- Understand what additional features required by Grids should be considered in ITU-T's NGN Release 2.
- Identify the impact of NGN on Grids.
- Contribute to the establishment of a roadmap for future standardization activities among major players.
- Prepare a coordinated action plan on urgent standardization issues between standards developing organizations and fora/consortia working in this area.

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## Advance Programme

### OPENING

- **Houlin Zhao**, Director of the Telecommunication Standardization Bureau, ITU
- **Mark Linesch**, Chairman, Global Grid Forum

### SESSION 1: KEYNOTE SPEECHES – VISIONS OF GRIDS AND NGN

**Objectives:** Present the vision, status, evolution and key players on Grids and NGN.

**Session Moderators:**

- GGF: **Franco Travostino** (Nortel)
- ITU-T: **Brian Moore** (Lucent Technologies)

**Presentations:**

- *The market drivers for NGN*
- *Telcos' view of Grids*
- *Grid networks in the research community:* **Kees Neggers** (SURFnet)

### SESSION 2: SETTING THE SCENE – GRID TUTORIAL AND NGN TUTORIAL

**Objectives:** Introduce GGF Telco work and ITU-T NGN standards to better understand each other's terminology and issues.

**Session Moderators:**

- GGF: **Matti Hiltunen** (AT&T)
- ITU-T: **Helmut Schink** (Siemens)

**Presentations:**

- *What is NGN: Architecture:* **Keith Knightson** (Industry Canada)
- *What is NGN: Service Enablers:* **Marco Carugi** (Nortel)
- *What is a Grid:* (GGF)
- *The implications of Grids for Telcos: business/service requirement from a Telco's perspective:* **Richard Schlichting** (AT&T)
- *The implications of Grids for networks: technical requirements for Telco networks:* **Franco Travostino** (Nortel)

**Panel discussion and Q&A:** *What can Grids do for Telcos and what can Telcos do for Grids?*

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## SESSION 3: MANAGEMENT AND CONTROL

**Objectives:** Describe how Grid management and the control interface integrate with NGN

**Session Moderators:**

- GGF: **Wayne Clark** (Cisco Systems)
- ITU-T: **Petre Dini** (Cisco Systems)

**Presentations:**

- *Grid network services and how they intercept network signalling protocols*
- *Overview of NGN management*

**Panel discussion and Q&A:** *What are the missing links in NGN management to support Grids?*

## SESSION 4: QoS, PERFORMANCE AND SECURITY ASPECTS

**Objectives:** Review of the QoS (Quality of Service), performance and security parameters relevant for Grid applications and NGN, and of the requirements from the users and service provider/network provider perspectives.

**Session Coordinators:**

- GGF: **Pascale Primet** (INRIA)
- ITU-T: **Igor Faynberg** (Lucent Technologies)

**Presentations:**

- *QoS for NGN:* **Hui-Lan Lu** (Lucent Technologies)
- *NGN security standards:* **Martin Dolly** (AT&T)
- *QoS and security for Grids:* **Pascale Primet** (INRIA)

**Panel discussion and Q&A:** *What do QoS and security requirements for NGN and Grid have in common, where do they differ?*

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## SESSION 5: FUTURE TRENDS AND ISSUES

**Objectives:** Identify future trends and issues likely to turn up to support Grid applications and their impact on the standardization framework. Identify future trends in NGN.

**Session Coordinators:**

- GGF: **Dimitra Simeonidou** (University of Essex, UK)
- ITU-T: **Noah Luo** (Huawei)

**Presentations:**

- *Consumer Grids, Grids for mobile thin clients, Mediagrids:* **Piet Demeester** (IBBT – Interdisciplinary Institute for BroadBand Technology)
- *Self Adaptive Overlay Network Innovating NGN Architecture:* **He Jun Hong** (Huawei)

**Panel discussion and Q&A:** *NGN and Grids five years from now*

## WRAP-UP SESSION

**Session Coordinators:**

- GGF: **Bob Cohen** (Economic Strategy Institute)
- ITU-T: **Joe Zearth** (Nortel)

For updated information, please see: [www.itu.int/ITU-T/worksem/grid/index.html](http://www.itu.int/ITU-T/worksem/grid/index.html)

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