



INTERNATIONAL TELECOMMUNICATION UNION

# ITU-T

# Final Report

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**Seminar on “Standardization of the NGN and ICT Services  
Development”**

(Tashkent, Uzbekistan, 5-7 July 2005)

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At the kind invitation of and in close collaboration with the Communications and Information Agency of Uzbekistan (CIA Uz), ITU-T (International Telecommunication Union - Standardization Sector) and ITU-D (International Telecommunication Union - Development Sector) organized a seminar on *“Standardization of the NGN and ICT Services Development”* in Tashkent, Uzbekistan on 5-7 July 2005.

The seminar was organized to discuss the current trends, status and future evolution of Next Generation Networks standards, as addressed by ITU-T. Central to these are: what areas of technology innovation hold the greatest promise for NGNs and what are the most innovative applications and services possible with NGNs. The issues revolving around NGN architecture, NGN technology, NGN quality of service (QoS) requirements and NGN evolutions were also explored.

The seminar specially targeted CIS (Community of Independent States) and Baltic States. The majority of the workshop’s 86 participants came from the Republic of Uzbekistan (representatives of cabinet of ministers, ministries and departments, Uz-standard agency, educational institutions, telecommunication operators and service providers), together with participation from communication administrations of Armenia, Ukraine, Russia, Moldova, Kazakhstan, Belarus and Slovenia. Equipment manufacture companies as ZTE Corporation, Huawei technologies Co. Ltd. and Iskratel Electronics also took part.

The meeting was chaired by Professor Rikhsi Isaev, First Deputy Director of Scientific Engineering and Marketing Research Center (SEMRC). ITU staff presented in the Seminar include: Mr. Reinhard Scholl, Deputy Director of ITU/TSB; Mr. Chae-Sub Lee, Chairman of ITU-T Focus Group on NGN; Mr. Vishnu Mohan Calindi, ITU/BDT; Ms. Xiaoya Yang, ITU/TSB; Mr. Stefano Polidori, ITU/TSB; Mr. Valeriy Timofeev, Regional representative of ITU and Mr. Mikhail Kozhakin, Deputy Director General of Executive Committee of RCC. Participants from the government of Uzbekistan were: Hurshid Mirzahidov, Cabinet of Ministers of the Republic of Uzbekistan; Asadjon Hadjaev, Deputy Director General of CIA Uz and Makhsum Makhmudov, Director of SEMRC.

This was the second seminar organized by ITU in collaboration with CIA Uz. The first was a Seminar on [“Standardization and ICT Development for the Information Society”](#) held on October 6-8, 2003. The participants expressed gratitude to ITU for the organization of the workshop, and to the CIA of Uzbekistan and SEMRC for the high level organization.

Participants of the Seminar appreciated the high quality presentations on “Standardization of NGN and ICT service development,” made by ITU/TSB, ITU/BDT, Focus Group on NGN, and companies including ZTE Corporation, Huawei technologies Co. Ltd., Iskratel Electronics, NGN Operator “East Telecom” and SEMRC. Work carried out by ITU-T and ITU-D in the field of NGN Standardization and ICT service development which aims to accelerate the creation and development of Information Society and to widen the support for access to world information resources was also introduced.

The keynote presentation of Mr. Chae-Sub Lee, Chairman of ITU-T NGN Focus Group, provided an overview of ITU-T work on NGN since early 2003. His presentation focused on the main achievements of the Focus Group, especially the Focus Group deliverables on general function architecture, quality of service, security, migration and evolution towards NGN, the coordination with other ITU-T study groups and standard developing organizations (SDOs), and the future issues concerning NGN. His presentation was very welcomed by the participants which occupied him in discussions for more than an hour.

In his closing remarks, Mr. Isaev wrapped up this seminar with the following points proposed by the hosting organization, agreed by ITU-D and ITU-T representatives:

1. The seminar supported the proposal on necessity of inclusion of questions concerning the steady electro supply of the ICT objects, particularly located in the remote rural, mountain and deserted territories into the structure of NGN development.
2. The seminar supported the SEMRC initiatives on wide implementation of Hybrid Solar Wind System of electro supply of ICT objects, including remote settlements and regions.
3. Participants proposed the RCC Commission on telecommunication to consider in their following Meeting the Question on Introduction of Hybrid Solar Wind Systems of electro support of ICT objects, including remote sites.
4. The seminar supported the SEMRC initiatives on preparation of contribution “Recommendations on elaboration and maintenance of Hybrid Solar Wind System of electro supply of ICT objects” and their providing on behalf of Communication Administrations of the Republic of Uzbekistan to Study Group 2, ITU-D, Question 10.
5. The seminar proposed to consider as expedient the distribution of materials and results of work of International seminar in CIS countries via Moscow Regional Representation of ITU.
6. The seminar proposed to consider as expedient the creation at the Communication and Information Agency of Uzbekistan the Coordinating Body on development of NGN and ICT services, with participation of organizations as SC “Uzbek Telecom”, SEMRC, TUIT, JV “East Telecom” and others.
7. The seminar would propose to hold an international seminar on “Renewable electro energy sources for the ICT objects” in 2006, with participation of International Telecommunication Union and World Renewable Energy Council.