ITU Regional Workshop for CIS
"ITU Virtual Laboratory for Remote Tests of Equipment, New Technologies, and Services"
Moscow, Russian Federation, 10-12 November 2014

ANNEX 1 - DRAFT AGENDA

10 November 2014, Monday
Day 1st: Infrastructure of the Virual Laboratory on the Basis of the International Telecommunication Testing Centre using Simulative Network of FSUE ZNIIS and Providing Remote Access to the Measuring Equipment of the CIS Countries.

09:30-10:00	**Registration of participants and provision of training and information materials**
10:00 -10:30	**Opening remarks:** • **Federal Agency of Communications, Mr. Vitaly Kreindelin, Deputy Head, Department of Public Services in the field of Communication;** • **Federal State Unitary Enterprise Central Science Research Telecommunication Institute (ZNIIS), Mr. Andrei Gryazev, Acting Director General***;* • **International Telecommunication Union (ITU), Mr. Andrei Untila, Programme Officer, ITU Area Office for CIS**
10:30 - 12:00	**Session 1: The Virtual Laboratory Infrastructure** **Chair: Ms. Svetlana Yarlykova, Advisor to Director General, Candidate of Science (Engineering), ZNIIS** ***Key Results of the Implementation of the ITU C&I Programme*** **Mr. Denis Andreev,** C&I Programme Coordinator, JCA-CIT Secretariat, ITU/TSB ***ITU-T Pilot Projects on Testing New Technologies*** **Mr. Denis Andreev,** C&I Programme Coordinator, JCA-CIT Secretariat, ITU/TSB ***The Scheme of the Acting Infrastructure of the ITU Virtual Laboratory for Remote Testing of Equipment, New Technologies, and Services*** **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS ***Infrastructure of the Virtual Laboratory of Testing the Capability to Provide Triple Play and Other Services*** **Mr. Roman Chebanenko,** Senior Specialist for Netware and Information

	Security, ZNIIS *Infrastructure of Real Network Equipment of Leading World Manufacturers for Training the Skills to Work on the Equipment* **Mr. Roman Chebanenko,** Senior Specialist for Netware and Information Security, ZNIIS
12:30 - 13:30	**Lunch**
13:30 - 14:00	**Session 1: Continuation** *Infrastructure of the Virtual Laboratory for Study of the Issues of Information Security and Obtaining Relevant Working Skills* **Mr. Sergei Kochetov,** Specialist for Operation, Operation and Maintenance Centre of Portable Number Database, ZNIIS
14:00-15:30	**Session 2: Use of Measuring Equipment for Metrological Testing of Communication Tools, Validation of Communication Equipment Measurement Tools and Virtual Testing of Advanced Technologies** **Chair: Ms. Svetlana Yarlykova, Advisor to Director General, Candidate of Science (Engineering), ZNIIS** *Testing L2-L3 Technologies and Protocols. Testing Solutions of Packet Transport Networks (Core, CG-NAT, BRAS, Aggregation). Load Testing (Applications for Testing IXIA and Spirent)* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Testing L4-L7 Technologies and Protocols. Testing Productivity of the Applications. Methods of Evaluation the Quality of Service and Reception of Communication Services. Load Testing (Applications for Testing IXIA and Spirent)* **Mr. Viktor Shalaginov,** Senior Specialist, Corporate Centre Laboratory, OJSC Rostelecom, Candidate of Science (Engineering) *Demonstration of Practical Use of Hardware Generator/ Network Analyzer Spirent TestCenter SPT-N4U-220 and IXIA 400T* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS **Mr. Viktor Shalaginov,** Senior Specialist, Corporate Centre Laboratory, OJSC Rostelecom, Candidate of Science (Engineering)
15:30 - 16:00	**Coffee break**
16:00–17:30	**Session 2: Continuation** *Metrological Examination and Follow-up Calibration of Communication Equipment on the basis of IP Protocol (Using the Example of AMULET IP Connection Former)* **Mr. Viktor Shalaginov,** Senior Specialist, Corporate Centre Laboratory, OJSC Rostelecom, Candidate of Science (Engineering)

	Demonstration of Practical Use of AMULET IP Connection Former **Mr. Viktor Shalaginov,** Senior Specialist, Corporate Centre Laboratory, OJSC Rostelecom, Candidate of Science (Engineering) *Metrological Examination and Follow-up Calibration of Telephone Communication Equipment for Measurement of Connection Length for Tariffing (Using the Example of PRIZMA IP Connection Former)* **Mr. Viktor Shalaginov,** Senior Specialist, Corporate Centre Laboratory, OJSC Rostelecom, Candidate of Science (Engineering) *Demonstration of Practical Use of PRIZMA IP Connection Former* **Mr. Viktor Shalaginov,** Senior Specialist, Corporate Centre Laboratory, OJSC Rostelecom, Candidate of Science (Engineering)*
17300-18:00	Roundtable. Summing up

11 November 2014, Tuesday

Day 2nd: Remote Testing of the Technologies of Data Communication through IP Networks, including the Technologies of Wired Broadband Access	
10:00-12:30	**Session 2: Use of Measuring Equipment for Metrological Testing of Communication Tools, Validation of Communication Equipment Measurement Tools and Virtual Testing of Advanced Technologies (continuation)** *Use of STT-MSA Universal Module Analyzer* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Demonstration of Practical Use of STT-MSA Universal Module Analyzer* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Use of all-channel signaling system # 7 and EDSS A8619 Protocol Analyzer* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Demonstration of Practical Use of all-channel signaling system # 7 and EDSS A8619 Protocol Analyzer* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Ixia PerfectStorm New Solution for High Load Testing of Communication Tools* **Mr. Narek Tatevosyan,** LLC Treatface
12:30-13:30	**Lunch**

13:30-15:30	**Session 3: Remote Testing of the Technology of Data Transmitting via IP Networks** **Chair: Mr. Yury Tsykunov, Development and IT Director, ZNIIS** *Results of Remote Testing of the Technology of Data Transmitting via IP Networks* **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Demonstration of Practical Use of the ITU Virtual Laboratory Acting Infrastructure for Remote Testing of Equipment, New Technologies, and Services* **Mr. Roman Chebanenko,** Senior Specialist for Netware and Information Security, ZNIIS *The Issues of Improvement of the System of Figures of Quality of Services in Telecommunication Networks of Uzbekistan* **Mr. Asilzhan Mirkhabibov,** Centre of Scientific and Technical and Marketing Research, UNICON.UZ
15:30–16:00	**Coffee break**
16:00–17:30	**Session 3: Web Portal and Database of the Virtual Laboratory** **Chair: Mr. Igor Bukharev, Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS** *Hardware-software Solution for Measurement of the Internet Access Speed and Quality Parameters of Communication Channels* **Mr. Yury Tsykunov,** Development and IT Director, ZNIIS *Web Portal of the Virtual Laboratory. Description and Demonstration of the Work* **Mr. Sergei Kochetov,** Operation Specialist, Operation and Maintenance Centre of Portable Number Database, ZNIIS *Knowledge Database of the Virtual Laboratory. Description and DemonstraIT tion of the Work* **Mr. Sergei Kochetov,** Operation Specialist, Operation and Maintenance Centre of Portable Number Database, ZNIIS
17:30-18:00	**Roundtable. Summing up**

12 November 2014, Wednesday

Day 3rd: Training on Use of the ITU Virtual Laboratory Infrastructure

10:00–12:30	**Session 5: Pilot Project on MNP Testing on Conformance to Q.suppl.4 ITU Recommendation** **Chair: Mr. Denis Andreev, C&I Programme Coordinator, JCA-CIT Secretariat, ITU/TSB** **Portable Number Database. Topical Questions and Problems** **Mr. Igor Bukharev,** Director, Operation and Maintenance Centre of Portable Number Database, ZNIIS ***ZNIIS Measures Aimed at Participation in ITU Pilot Project on MNP Testing on Conformance to Q.suppl.4 ITU Recommendation*** **Mr. Vadim Plakhov,** Operation Specialist, Operation and Maintenance Centre of Portable Number Database, ZNIIS
12:30 - 13:30	**Lunch**
13:30-16:00	**Session 6: Practical Use of Measuring Equipment of the ITU Virtual Laboratory** **Chair: Mr. Andrei Gryazev, Acting Director General, ZNIIS** *During the Session, the participants will present variants of possible use of the Virtual Laboratory equipment, cooperation with ZNIIS and other topical issues. Also, the participants will have an opportunity to work with the Virtual Laboratory equipment to obtain necessary basic skills.*
16:00 – 17:00	**Roundtable. Summing up**