

Brief Description of the Project and related Activities

Adopted at World Telecommunication Development Conference (WTDC, Doha, 2006), the Doha Action Plan include five regional initiatives for CIS region. This umbrella project is one of the initiatives. Under this project, ITU and Central Research Telecommunication Institute (ZNIIS) will collaborate to create an International Telecommunication Testing Centre (ITTC) for new technologies and will train telecom specialists from developing countries. Methodical testing on Next Generation Networks (NGN) in particular will be carried out at the ITTC through creating a model network that can simulate different network parameters and use multi-vendor equipment. The results of these tests will be documented and shared. Training material on NGN testing will also be developed together with hands-on laboratories, in order to deliver workshops.

This project has been designed in line with the Recommendation of the World Telecommunication Development Conference (WTDC) 2006 in Qatar to establish International Centres for NGN testing.

Project Objectives

An International Telecommunication Testing Centre will be established to: test new telecommunication equipment and services; harmonize methods for the provision of new services within a region; harmonize the introduction in one or more regions of telecommunication standards issued by different international organizations; resolve system/network issues associated with the modernization of communication networks, taking account of previous communication network development experience within a given region; train specialists from developing countries.

Expected Outputs

The project will have the following outputs

- an International Telecommunication Testing Centre (ITTC) will be established with adequate space for classrooms, laboratories, conference hall, administration and management and etc.;
- a model network for practical NGN testing and for lab exercises during training;
- effective testing strategies (methodologies) on the model networks;
- training programs and training material;
- access to the knowledge base of NGN tests results.

Activities conducted during 2008

The model network for performing compatibility testing is under construction. A System –network testing sub-centre has been established and the installation of equipment to create the Conformance testing sub-centre is ongoing.

A training seminar on “Testing of system and network solutions” was conducted in Moscow, Russia, from 15 to 17 December 2008. The main objective of this seminar was to train the trainees of the Region on NGN architecture, NGN Standards, testing methods, modeling networks, NGN products from different manufacturers. The Seminar has been attended by 27 participants from 10 countries. Average estimation mark for the seminar usefulness from the attendees’ point of view: 4.9. More information is available at:

<http://www.itu.int/ITU-D/tech/network-infrastructure/index.html>

Activities conducted during 2009

There were developed three effective testing strategies on the Model network at the System Network sub-centre include:

- Test program and purposes for Softswitch solution
- Test program and purposes for IMS solution
- Test program and purposes for Broadband Access solution

There was carried out functional Testing on the Model Network at the System Centre Network sub-centre and corresponding reporting include:

- Functional and interoperability testing for Softswitch solution
- Functional and interoperability testing for IMS solution
- Functional and interoperability testing for Broadband Access solution

More information is available at: <http://www.itu.int/ITU-D/tech/network-infrastructure/index.html>

Contact point: Name/Organization/Entity: Passerini Riccardo, BDT
Phone number: +41 22 730 5720
Email: riccardo.passerini@itu.int

The results of testing after resolution all legal questions on publishing detailed report it will be accessible from ITU-D web site.

The conformance testing strategies for SIP, M3UA, H.248/MEGACO was developed and tested on the equipment on Model network.

An international training seminar on “Conformance testing” was conducted in Moscow, Russia, from 10 to 11 December 2010. The main objective of this seminar was to train the participants on the following subjects: ITU testing approaches, including ITU-T experience (bearing in mind the implementation of ITU Council decisions related to conformity and interoperability of Sectors), conformance testing experience in different countries, application of Model networks for conformance testing, proposed methodologies of protocols, equipment and services conformance testing. The Seminar has been attended by 45 participants from 9 countries. Average estimation mark for the seminar usefulness from the attendees’ point of view: 4.4. More information is available at:

<http://www.itu.int/ITU-D/tech/network-infrastructure/index.html>

Activities conducted during 2010

A Workshop on “Experience of testing and introduction of NGN” was conducted in Moscow, Russia, from 8 to 9 July 2010. The main objective of this seminar is to inform the attendees in the following subjects: experience of NGN introduction in CIS countries, experience of xPON equipment testing, questions of granting QoS in NGN, experience from international testing projects for European Union and etc.. The Workshop has been attended by 43 participants from 6 countries. Average estimation mark for the seminar usefulness from the attendees’ point of view: 4.4. More information is available at:

<http://www.itu.int/ITU-D/tech/network-infrastructure/index.html>

There are several plans for 2010 year:

- development of testing strategies for performance of QoS testing of NGN technical means on the Model network;
- performance of QoS testing of NGN technical means from different manufacturers on the Model network.

Activities planned for 2011

- Conduciton of international training seminar on QoS testing on the Model network aspects;
- Conduction of workshop on QoS aspects for NGN technical means testing;
- Creation Knowledge centre and preparation knowledge database;
- Workshop of ITTC Results activity.