

Speaker:	Mr. Denis Andreev Director of Technopark ZNIIS Russian Federation
Session	<i>4 (under Role of International telecommunication testing centers (ITTC) Unified and test network solutions for Region (equipment requirements, special requirements to services and QoS); ITTC's operational procedures; Typical work plan for build ITTC; Structure of ITTC including testing lab facilities, technologies and equipment to be tested, personal to be trained)</i>
Title of Presentation:	Role of International telecommunication testing centers (ITTC). Approaches of Testing Labs creation. Purposes, tasks and facilities of Testing Labs

Nowadays the active integration of new telecommunication technologies and the equipment on telecom community is conducted. For instance the actual and main product of ISP activity is a telecommunication services.

At this time the wide spectrum technologies focused on networks with packet switching where telecom services independent on technology and can be realized by different polytypic equipment (for example, basic telephone service could be realized by — Softswitch, IMS, SS7 TDM, PS etc.). As a result, for the purpose of granting of services with the required parameters, the world community now is faced to the interoperability and conformity of used technologies, equipment, system-network solutions and services.

For the decision of the given problem operators have already constructed and widely use now the advanced test-centers which are the one of the main department of service provider and carrying out the activity on preoperational testing of the equipment introduced on the self exist network.

Certainly given process raises the price of the equipment and the system-network solutions planned to install on a network, but in the conditions of the developed countries the given indicator is not correlate with high GDP (Gross Domestic Product). However, for developing countries and the countries with transitive economy the given position is essential and can be reduced by means of unification of works for all Region.

As a result, one of the ways for deciding of the given problem is creation the unified centers — the Regional Centers of Testing (further the Center). These Centers can be created for the Regions and may define in each of them specific requirements to the equipment, system-network solutions, services and QoS and may assume carrying out of the following kinds of checks:

- testing for the conformity to the international standards and specifications;
- testing of the regional specific requirements;
- testing of the base and special requirements to the telecommunication service;
- testing of the equipment for the compatibility (interoperability testing);
- testing of the system-network solutions for interaction by granting of the telecommunication service;
- modeling and testing of network performance parameters for providing required service quality.

In the present report the approach to construction of the similar Centers will be considered, including: the analysis of the international experience on the creation of the testing centers, the choice of the optimal strategy regarding the realization of the testing process, the typical Center structure, the requirement to the telecommunication and measuring infrastructure of the Center, typical operational activity of the Center and a typical plan of measures on creation and the Center

commissioning. Within this presentation the experience and possibilities of ZNIIS on the creation of the similar centers will be shown.
