

Report
on the results of International Training Seminar
CONFORMANCE TESTING

Period of event:

December 10-11, 2009 (2 days)

Place of event:

Federal State Unitary Enterprise (FSUE) ZNIIS (Central Research Telecommunication Institute)
(address: 8, 1st Proyezd Perova Poly, Moscow, 111141, Russia)

Seminar participants:

The Seminar has been attended by 45 participants from 9 countries (please refer to Attachment No. 1 of this Report)

Topics of theoretical and practical studies:

Within the major part of the seminar there were theoretical studies held concerning the following topics:

WTSA-08 Resolution 76: Conformance and Interoperability testing testing
Paolo Rosa, ITU, TSB, Head of workshops and promotion Division

The International Telecommunication Testing Center Project (ITTC)
D.V. Andreev, ZNIIS Technopark Director

Testing approach in ITU-T
A.E. Koucheryavy, ZNIIS Director General Advisor

IPv6 Test Solution for Network Devices
Tina Tsou, SG11/WP2 ITU-T Vice-Chairman

Analyze of ITU-T Recommendations on conformance testing
A.E. Koucheryavy, ZNIIS Director General Advisor

Conformance testing of services
1) Services conformance testing approaches
Denis Alexeitsev, DeutscheTelecom

2) European operators services conformance testing experience
Denis Alexeitsev, DeutscheTelecom

Test Solution for Convergent Policy and Charging Control
Tina Tsou, SG11/WP2 ITU-T Vice-Chairman

NGN equipment manufacturers testing experience

1) Implementation of equipment testing programs - Alcatel-Lucent experience

Maxim Zhirnovsky, Senior Solution Manager

2) NGN equipment testing - Nokia Systems Networks experience

Mikhail Sakharov, Technical advisor

Conformance testing on the model networks, IP/MPLS

1) Model network for conformance testing

V.A. Shalaginov, ZNIIS Technopark expert

2) Conformance testing of IP/MPLS

V.A. Shalaginov, ZNIIS Technopark expert

NGN protocols Conformance testing

1) Key features of MEGACO protocol Conformance testing

K.A. Savin, ZNIIS Technopark expert

2) Typical problems discovered during Conformance testing of MEGACO protocol

K.A. Savin, ZNIIS Technopark expert

3) Key features of SIP protocol Conformance testing

K.A. Savin, ZNIIS Technopark expert

4) Typical problems discovered during Conformance testing of SIP protocol

K.A. Savin, ZNIIS Technopark expert

There have been workshop practical studies held covering the following topics:

Test creation principles

Martin Bran, Vice-chairman WP4/SG11 ITU-T, Chairman WG6 TISPAN ETSI

IMS - SIP/SDP conformance testing

Martin Brand/BOŠTJAN PINTAR/IZTOK JUVANČIČ, SG11/WP2 ITU-T/SINTESIO/Iskratel

Demonstration of IP/MPLS testing process

V.A. Shalaginov/A.V. Zemskov, ZNIIS Technopark expert/Syrus Leading specialist

Demonstration of automatic test execution process based on SDL

Demonstration of automatic test execution process based on SDL

K.A. Savin, ZNIIS Technopark expert

Attachment No. 1 – List of the seminar participants

Ref. No.	Full name	Position and Company	Country
1.	Denis Alekseicev	Representative of Deutschetelecom	Germany
2.	Irina M. Amatova	Leading engineer "Kyrgyztelecom" JSC	Kyrgyzstan
3.	Evgenii A. Asminin	Main specialist OJSC Rostelecom	Russia
4.	Martin Brand	Vice-chairman WP4/SG11 ITU-T, Chairman WG6 TISPAN ETSI Telekom Austria	Austria
5.	Benedict Brand	Engineer Telekom Austria	Austria
6.	Alexander A. Vershinin	Leading engineer New technologies department Development of transmission network management branch OJSC "Uralsvyazinform"	Russia
7.	Olga V. Gribinichenko	Engineer "Kyrgyztelecom" JSC	Kyrgyzstan
8.	Batirbek Sh. Dgymabekov	Manager JSC «Kazakhtelecom»	Kazakhstan
9.	Alekxsander V. Dolmatov	Director of network maintenance department JSC "TransTeleCom Company"	Russia
10.	Aleksei A. Ermakovich	1-st level systems engineer of telecommunications network RUE Beltelecom	Belorussia
11.	Maksim L. Zhirnovskii	Senior manager Network solutions in Russia and CIS department ALCATEL-LUCENT	Russia
12.	Aleksei V. Zaseckii	director general Syrus	Russia
13.	Alexander V. Zemskov	Leading Specialist Syrus	Russia

Ref. No.	Full name	Position and Company	Country
14.	Oleg V. Zimin	Manager JSC «Kazakhtelecom»	Kazakhstan
15.	Anna A. Ivanova	Director of telecommunication department "Southern Telecommunications Company" PJSC	Russia
16.	Orozobek J. Kayikov	Chief of ITU Territorial Office for CIS Countries	Russia
17.	Vadim V. Kovalev	Chief of telephone network development department OJSC Rostelecom	Russia
18.	Igor G. Korshynov	Leading engineer NOKIA-SIEMENS NETWORKS	Russia
19.	Aleksei V. Kostrov	Deputy director of broadband solutions in Russia and CIS department ALCATEL-LUCENT	Russia
20.	Sergei M. Kydirko	Chief of metrology, standardization and quality RUE Beltelecom	Belorussia
21.	Natalia V. Lavrentieva	Main specialist-expert Ministry for Communication and Media	Russia
22.	Andrei I. Letnikov	Deputy chief of deployment center Technical direction JSC "MGTS"	Russia
23.	Nikolai I. Lihachev	Director of testing center OJSC «Intellect Telecom»	Russia
24.	Rinat K. Myslimov	Chief of lab SUE Center of science-technical and marketing research – «UNICON.UZ»	Uzbekistan
25.	Andrei S. Novohatko	Director of department NOKIA-SIEMENS NETWORKS	Russia
26.	Daniil V. Osipov	New business development director Integron-X	Russia

Ref. No.	Full name	Position and Company	Country
27.	Denis A. Pankov	1-st level Engineer of technical development department OJSC "Uralsvyazinform"	Russia
28.	Dmitrii S. Perminov	Manager OJSC Rostelecom	Russia
29.	Paolo Rosa	Head of workshops and promotion Division ITU TSB	Switzerland
30.	Valerii I. Smirnov	Director of licence-regulatory works direction JSC "TransTeleCom Company"	Russia
31.	Mihail S. Starjinskii	Senior manager Department of external communications JSC "TransTeleCom Company"	Russia
32.	Tina Tzou	Vice chairman WP2/SG11 ITU-T HUAWEI	China
33.	Andrei L. Untila	Administrator of Programs at ITU Territorial Office for CIS Countries	Russia
34.	Andrei A. Chepikov	Deputy chief of AUKP MCK RUE Beltelecom	Belorussia
35.	Anatolii K. Jarmak	Director of data networks department "Southern Telecommunications Company" PJSC	Russia
36.	Roman Golybinckii	Development director HUAWEI	Russia
37.	Andrei E. Koucheriavy	FSUE ZNIIS Director General Advisor	Russia
38.	Dmitry V. Tarasov	FSUE ZNIIS Director on science	Russia
39.	Denis V. Andreev	FSUE ZNIIS Technopark Director	Russia
40.	Konstantin A. Savin	Leading engineer FSUE ZNIIS	Russia
41.	Alexander G. Itkin	Leading engineer FSUE ZNIIS	Russia
42.	Vladimir V. Charondin	Leading engineer FSUE ZNIIS	Russia
43.	Victor A. Shalaginov	Senior engineer FSUE ZNIIS	Russia

Ref. No.	Full name	Position and Company	Country
44.	Viya A. Zharikova	Engineer FSUE ZNIIS	Russia
45.	Olga G. Utesheva	Engineer FSUE ZNIIS	Russia

Attachment No. 2 – Participants' opinions and comments on the seminar

A poll has taken place based on the seminar results. Here below is what has been found out in the poll. Certain marks have been put after the poll according to a five-mark scale (ranging from '5' – very good to '1' – very bad).

1. Average estimation mark for the seminar usefulness: 4.4
2. Average mark for the quality of general arrangement of the seminar: 4.7
3. Average mark for the adequacy of preliminary information about the seminar: 4.6
4. Hotel estimation: 4
5. Estimation of dieting and transport organization: 4.8
6. Estimation of the evening party program: 4.8
7. Estimation of compliance of the seminar information and data to the expectations: 4.6
8. Estimation mark of the educational material: 4.4
9. Estimation of demonstration arrangements within the seminar workshop practical part: 4.9
10. Response to the question of future participation in the ITTC seminars: 73% YES, "I wouldn't know" -27%
11. Answers provided to the offer of naming any other topics interesting for discussions at the ITTC seminars.
 - «All types of testing»
 - «Practical application»
 - «QoS in multivendor networks (testing)»
 - «QoS management in data networks, choice of equipment supplier using base of ZNIIS»

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«OSS/BSS, internetworking»

«All themes interesting me was covered »

12. Answers in response to the question of ‘which part of the seminar to your opinion could be improved?’

«Less presentations»

«Practice»

«Presentation of Tina Tsou»

«Everything is OK»

13. Answers provided to the question of ‘what was there at the seminar you liked most of all?’

«Testing zone»

«Practical part»

«Test solutions for IPv6»

«Reports of D.V. Andreev, Denis Alekseicev, K.A. Savin»

«Demonstration of testing»