

RDF09_AFR - Lusaka, Zambia - May 18-19, 2009



Purpose of NGN testing

NGN technologies harmonization is the global principle on implementation and operation of NGN networks development and usages

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The SG11 achievements under responsibility of testing

- Q.3900 Methods of testing and model network architecture for NGN technical means testing as applied to public telecommunication networks (approved 09/06)
- Q.3901 Integral testing. Tests and services' distribution for NGN technical means testing in the model and operator networks (approved 01/08)
- Q.3902 Parameters to be monitored in the process of operation when introducing NGN in PSTN (approved 01/08)
- Q.3903 Formalized presentation of testing results (approved 09/08)
- Q.3904 The scenarios, list and types of tests for TM local and NUT testing for IMS on the Model networks (on development)

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ITU-T Rec. Q.3900 as a global approach of testing

Purpose – determination of the Model network as a basic solution for NGN testing

Model network – a network which simulates the capabilities similar to those available in present telecommunication networks, has a similar architecture and functionality and uses the same telecommunication equipment

Contents of Q.3900

Classification of NGN TM regarding the NGN functionality (Y.2012)

- Determination of testing procedures
- ✓ Requirements to the Model network

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Call Session Control System	
Media Gateway Controller (MGC)	\$3, \$7, \$9, \$10, \$12
	T10, T11, T12, T13
Proxy Server SIP (PS)	S2, S3, S7, S11, S12
	T10, T11, T12, T13
IP Multimedia Subsystem (IMS)	\$1, \$3, \$6, \$7, \$8, \$10, \$12, \$13
	T10, T11, T12, T13, T14, T15, T16, T17
Voice and signaling transmit system	
Media Gateway (GW)	T7, T8
Signaling Gateway (SG)	T8, T9
Transport Network Environment (TNE)	T5, T6, T8
Application servers	
Application Server (AS)	S4, S5, S6, S14, S15
Media server (MS)	\$4, \$5, \$6, \$14, \$15
Messaging Server (MeS)	S4, S5, S6, S14, S15



ITTC tasks	
 To find and remove problems and difficulties in TM before implementing it on the "live" network 	
 To solve the interoperability TM different vendors 	
 To accumulate and save experience for it implementation on the activity of different telecom players 	
 To verify NGN services and prepare the recommendations for implementing it on the existent networks 	
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