



Ministry of information technologies and
communications of the
Russian Federation



Central Research Telecommunication
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Area responsibility and main item research of Q.8 "Protocol test specifications for NGN" SG11 ITU-T

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TELECOMMUNICATION ADMINISTRATION OF THE RUSSIAN FEDERATION

Area responsibility

Reason

In view of the NGN networks are widely spread and internationally recognized, an essential attention when constructing such networks should be given to network functioning quality dependent on many factors, such as: applying an equipment of the different manufacturers, using the distributed networks to provide a wide spectrum of services etc.

Document 95-E Draft Question H/11 Question H/11 - Protocol Test Specifications for NGN

Goal

To develop a complex of methods for testing the NGN technical means and a creation of model networks for their testing become current importance issues.

Terminology

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 technical means*

NGN Technical means — the NGN basic equipment which serves as a basis for building New Generation Network solutions, including for application in public telecommunication networks*

* Q.tt1 “Methods of testing and model network architecture for NGN technical means testing as applied to public telecommunication networks”

Set of proposed Recommendations to create under Q.8

- Q.tt1** NGN technical means testing methods as applied to NGN technologies for Public Switched Telecommunication Networks (PSTN)
- Q.tt2** Model network architecture for NGN technical means testing as applied to NGN technologies for PSTN networks
- Q.tt3** Integral testing. Tests and services' distribution for NGN technical means testing in the model and operator networks
- Q.tt4** Parameters to be monitored in the process of operation when introducing NGN in PSTN
- Q.tt5** Formalized presentation of testing results
- Q.tt6** Handbook on NGN technical means testing as applied to NGN technologies to be introduced on PSTN networks

Contents

Q.tt1 “METHODS OF TESTING AND MODEL NETWORK ARCHITECTURE FOR NGN TECHNICAL MEANS TESTING AS APPLIED TO PUBLIC TELECOMMUNICATION NETWORKS”

Classification of main functions and services to be checked during testing of NGN technical means used in public telecommunication networks

Classification of NGN Technical Means Used in Public Networks

Classification of functions to be tested

Conformance of the Functionality under Test to NGN Technical Means Used in Public Networks

Testing methods

Model Networks

EUT and NUT Testing Using Model Networks

Types of model networks and their applicability for testing

Basic architecture of model network

Architecture of distributed model network

Architecture of regional model network

Requirements for EUT and NUT testing by means of model telecommunication networks

Model network configuration for the testing of different (basic and additional) service types

Model network configuration for EUT testing

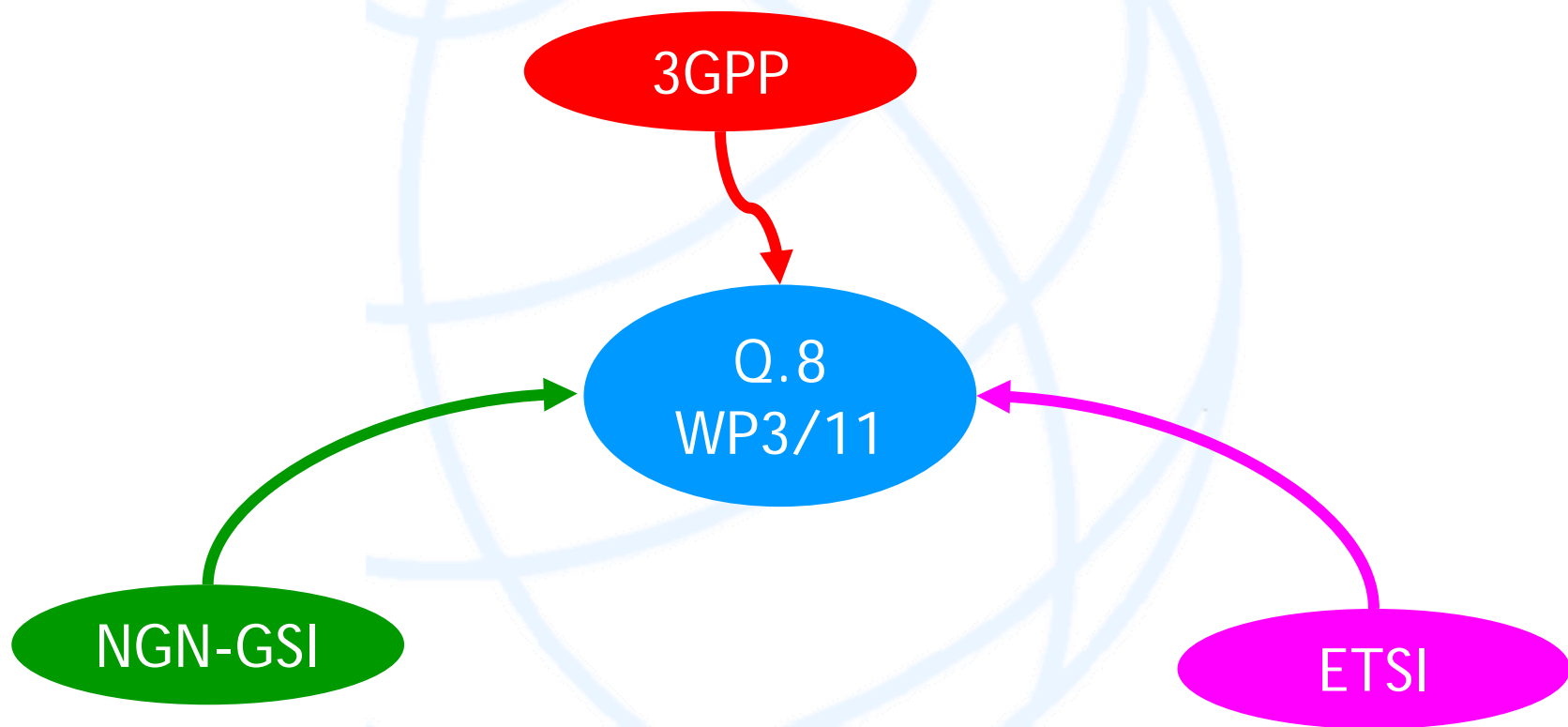
Model network configuration for NUT testing

Statistics of Q.8 WP3/11 Meetings

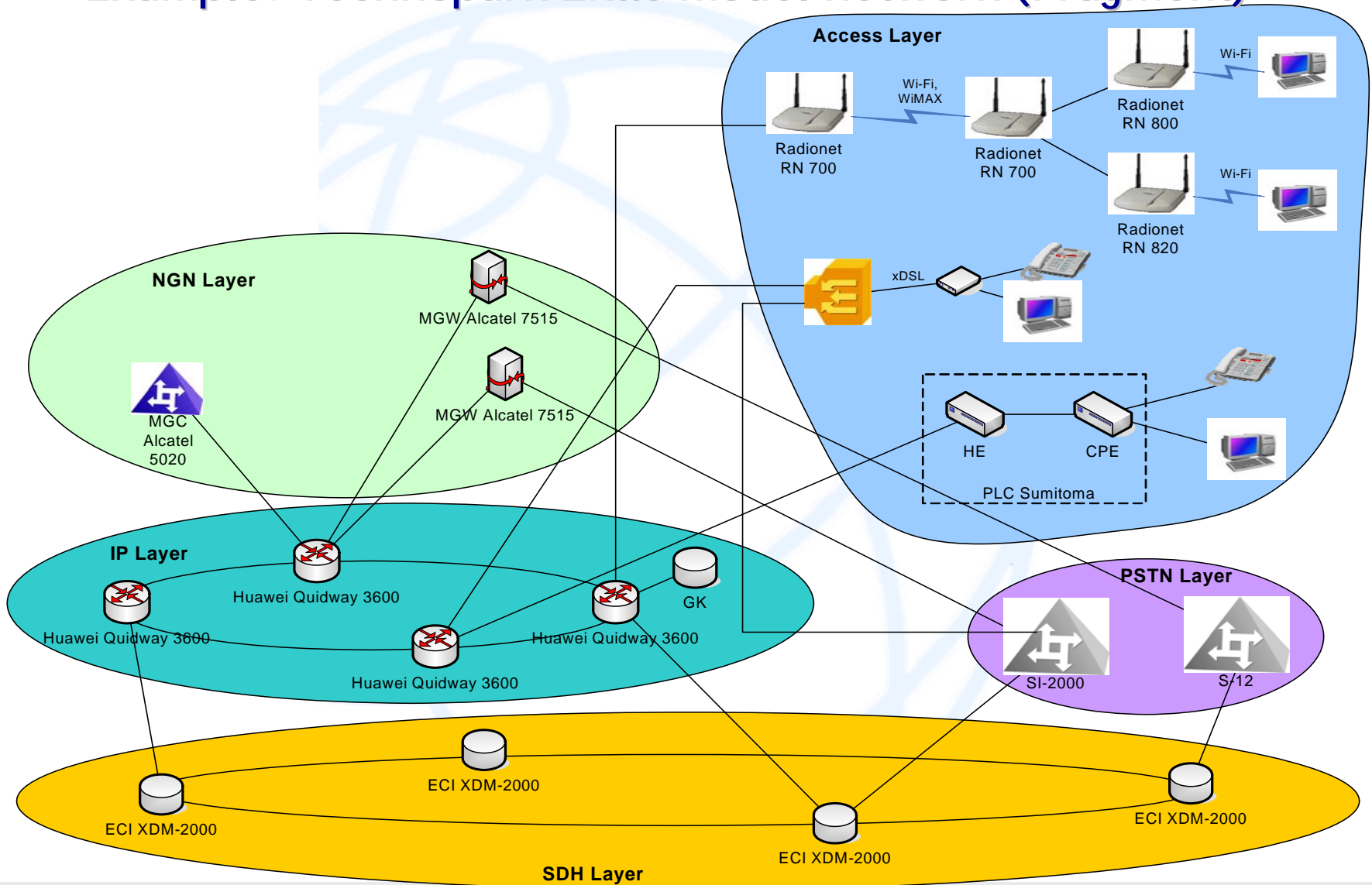
	Date/Place	Item	Results
1 st	December 04/Geneva	The list of proposed recommendation Q.tt1-Q.tt6	The list was approved Q.tt1-Q.tt2 was combined into one
2 nd	May 05/Geneva	The 1-st version of Q.tt1	The draft of Q.tt1 was discussed
3 rd	September 05/Geneva	Definitions to draft Q.tt1	Definitions will be add to Q.tt1
4 th	January 06/Geneva	The 2-nd version of Q.tt1	In process

The main aim of Q.8 WP3/11

Combination and aggregation work of development standards and recommendations devoted to NGN technical means testing



Example: Technopark ZNIIS model network (Fragment)



Thank you for your attention

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