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**Title of Presentation:** Approach of service and QoS Testing

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While delivering new services operators faced with different technical problems. The main reason of this problems are incompatibility of equipment for service delivery, so operators providing new services with restrictions and cannot deliver services with guaranteed QoS.

International standardization organization (ITU, ETSI) provide approaches to services standardization and testing. The purpose of service conformance testing is to determine to what extent a single implementation of a particular standard conforms to the individual requirements of that standard.

ETSI TISPAN WG 6 provides approaches based on manual and automatic test suites to ensure the conformance to TISPAN, 3GPP and ITU standardized protocols. These tests ensure the global interoperability of ISDN, PES and IMS Core NGN R1/R2, QoS between networks and Performance Benchmarking for NGN.

ETSI test specifications are designed to concentrate on areas critical to interoperability, including testing an implementation's reaction to erroneous behaviour.

ITU study group 13 Q.14/13 provide services delivery scenarios and NGN development model (Basic requirements for telecommunication services). ITU study group 11 Q.10/11 provide NGN services testing specifications).

QoS testing and monitoring is another trend in NGN. ITU developed G, P and Y – series recommendation contain approaches to estimate, control and deliver QoS in NGN.

RACF Resource and Admission Control Functions (abbreviated RACF) is an element of the ITU-T NGN architecture. RACF can form the basis of an infrastructure that can be used to satisfy user quality requirements and provide opportunities for delivering new services with additional revenue. ITU developed Q series recommendations about RACF architectures, system elements and interfaces.

Presentation cover approaches to service conformance testing, QoS testing and monitoring, RACF systems deployment which can help operators to solve problems with new services delivery.

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