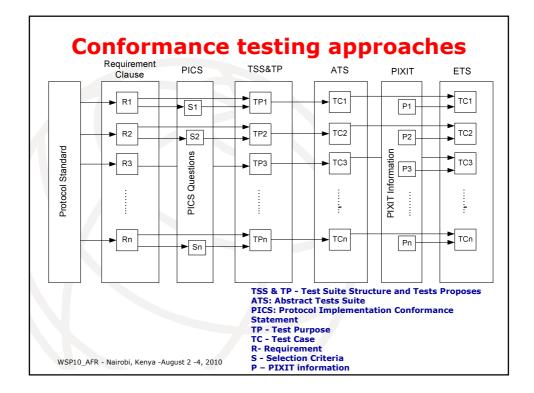


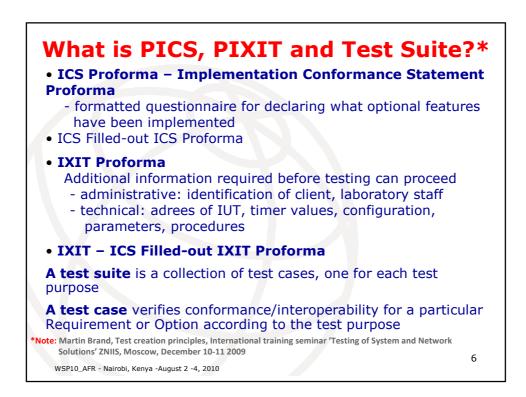
Conformance testing for interoperability testing

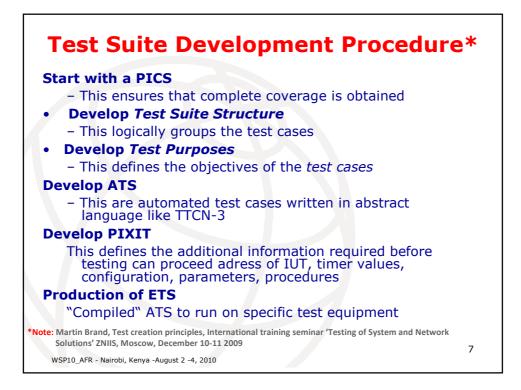
ETSI test specifications are designed to concentrate on areas critical to interoperability, including testing an implementation's reaction to erroneous behaviour. The goal is conformance testing for interoperability
This should not be confused with interoperability testing, which is a useful, but different activity. The two approaches are complementary rather

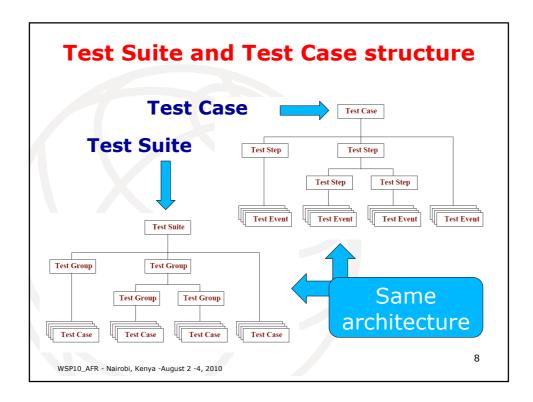
- than competitive, which is why ETSI also provides a Plugtests Service for interoperability events for standards and product validation.
- Focussed set of conformance tests can provide an excellent framework for subsequent interoperability testing.

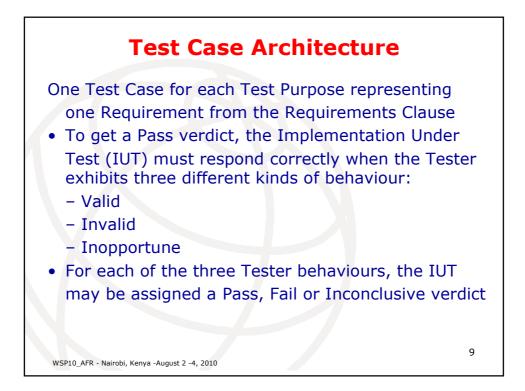
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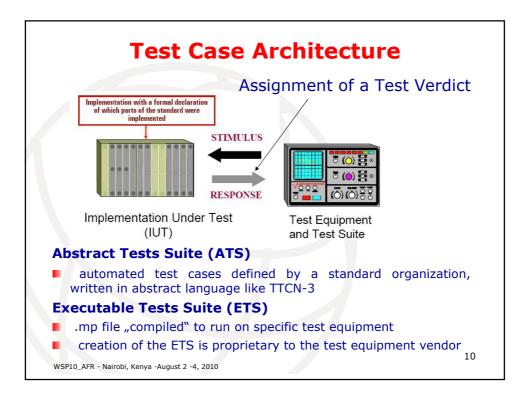


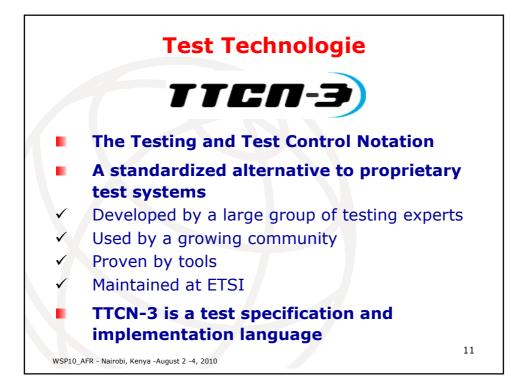


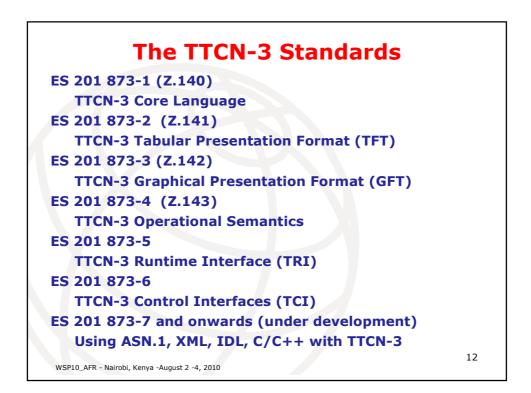


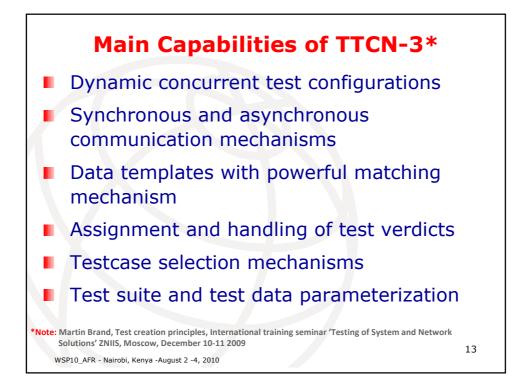


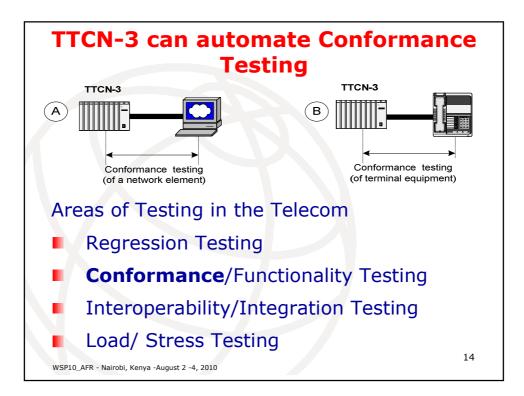


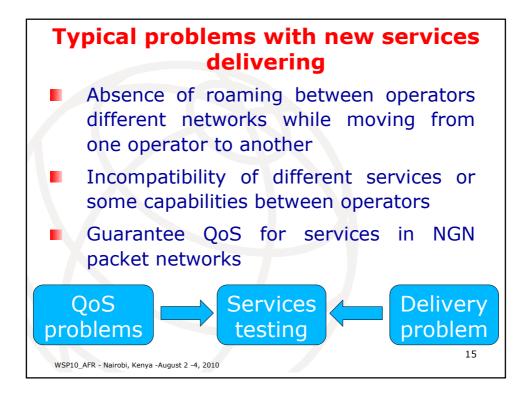


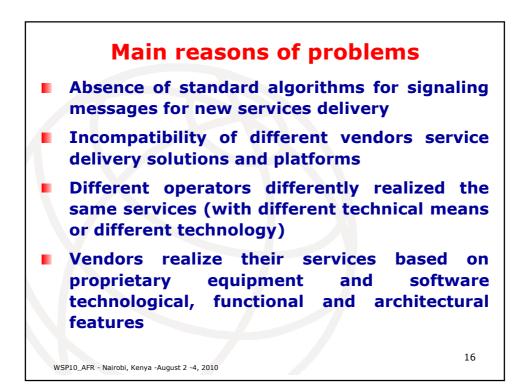


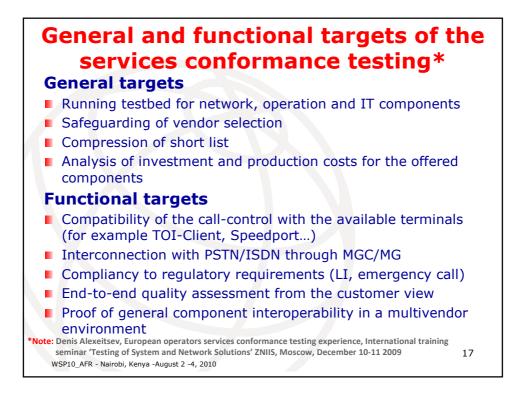


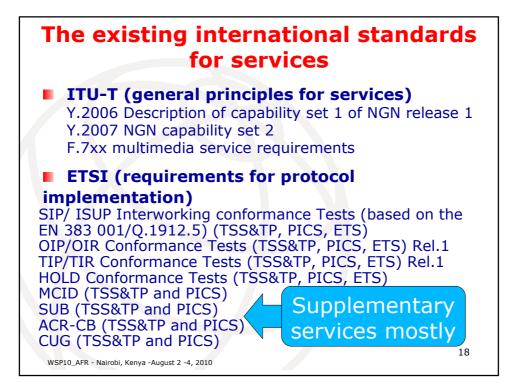












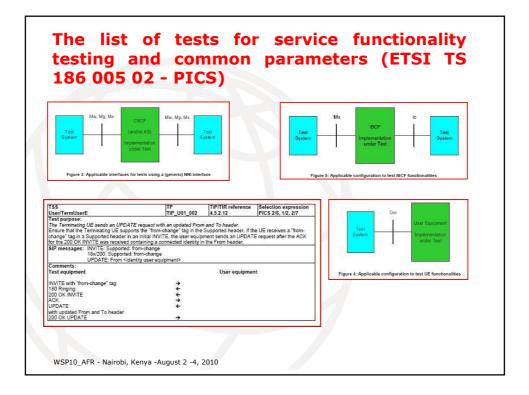
The instance of service standards «Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR)» ETSI TS 186 005

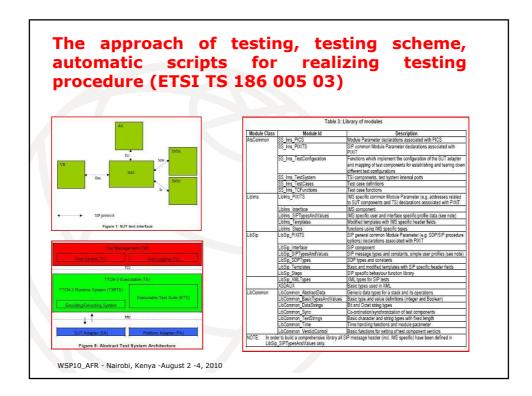
- ✓ PICS the set of function to be tested for service (ETSI TS 186 005 01)
- ✓ TSS/TP the list of tests for service functionality testing and common parameters (ETSI TS 186 005 02)
- ATS/PIXIT the approach of testing, testing scheme, automatic scripts for realizing testing procedure (ETSI TS 186 005 03)

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The set of function to be tested for service (ETSI TS 186 005 01 - PICS)

Table 2: TIP/TIR user capabilities						
Item description	Reference	Status	Support			
Does the originating user subscribe the TIP service?	4.3.1.1/[10]	0				
Does the terminating user subscribe the TIR service in permanent mode?	4.3.1.2/ [10]	o				
Does the terminating user subscribe the TIR service in temporary mode with default value "presentation not restricted"?	4.3.1.2/ [10]	0				
Does the terminating user subscribe the TIR service in temporary mode with default value "presentation restricted"?	4.3.1.2/ [10]	o				
Does the originating user subscribe the override category for the TIR service?	4.6.3/ [10]	o				
Does the user equipment supports the "from-change" tag in the Supported header?	4.5.2.12 [10]	0				
[2/6] Does the terminating user equipment send an UPDATE request if a "from-change" tag was received in the initial INVITE?	4,5.2.12 [10]	0				
The terminating user subscribes "special arrangement"?	4.5.2.9 [10]	0				





The scenarios of services standardization

International standardization ITU-T

SG13 Q.14/13 "Service scenarios and deployment models of NGN"

SG11 WP 4/11 Q.10/11 "Service test specification for NGN"

EU ETSI TISPAN WG6

Produces 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.

Corporate standards (ISP standards)

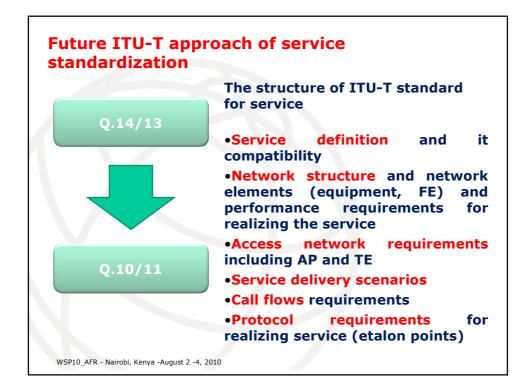
Additional requirements for equipment, protocols and solutions to service delivery

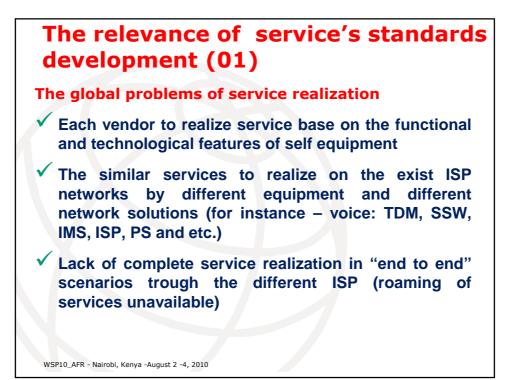
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instance of service standards **«Terminating** The Identification Presentation (TIP) and Terminating Identification Restriction (TIR)» Y.2211 Next Generation Networks – Service aspects: Service capabilities and service architecture. IMS based real-time conversational multimedia services over NGN 9.6 Terminating identification presentation (TIP) **Basic requirements**
 9.6.1
 Description

 The TIP simulation service provides the originating party with the asserted identification information of the terminating party.
 to services 9.6.2 TIP service interactions with other ISDN/PSTN simulation services (NGN) Terminating identification restriction (TIR): TIR shall have precedence over TIP 9.6.3 TIP interoperability with PSTN/ISDN networks The NGN supports the interoperability of the TIP services with the PSTN/ISDN supplementary service COLP and vice-versa. The scope of this interworking may result in a limited service capa 9.7 Terminating identification restriction (TIR) 9.7.1 Description The terminating identification restriction (TIR) enables the terminating party to withhold presentation of its asserted identification information to the originating party. NOTE: The requirements for support of emergency telecommunications may over-ride the user request for suppression. 9.7.2 TIR service interactions with other PSTN/ISDN simulation service ing identification presentation (TIP): TIR shall have precedence over TIP. 9.7.3 TIR interoperability with PSTN/ISDN networks The NGN supports the interoperability of the TIR services with PSTN/ISDN supplementary service COLR and vice-versa. The scope of this interworking may result in a limited service capability. In case of limited interoperability, TIR/COLR shall have precedence over TIP/COLP. WSP10_AFR - Nairobi, Kenya -August 2 -4, 2010

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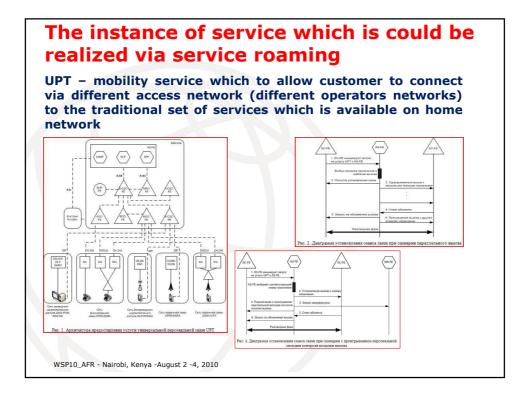


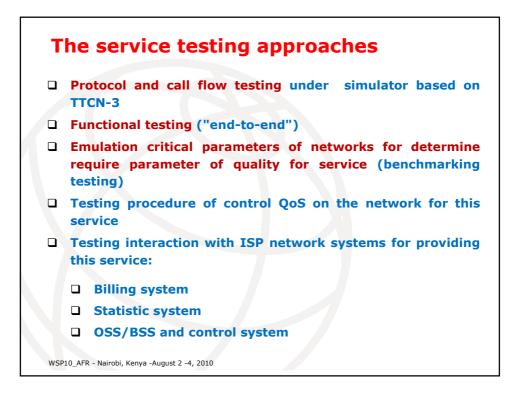


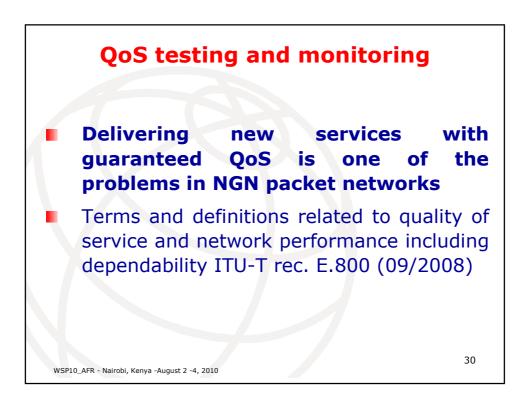


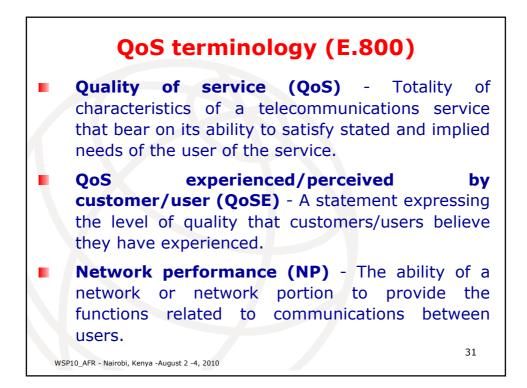
The new characteristics require to develop special requirements for quality parameters and network performance which have to be include to SLA and have to be control via providing

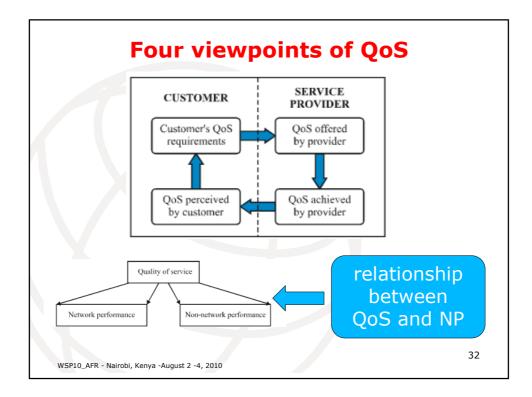
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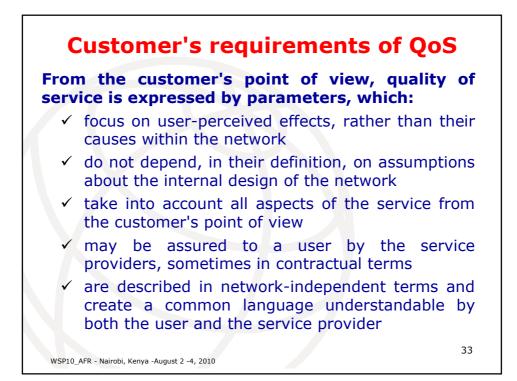


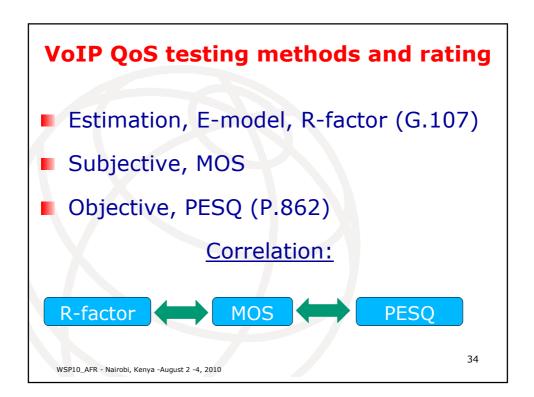


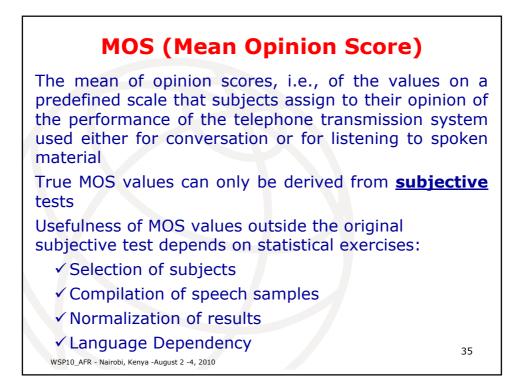


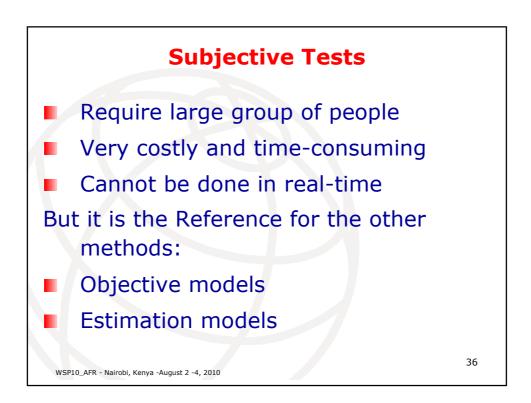


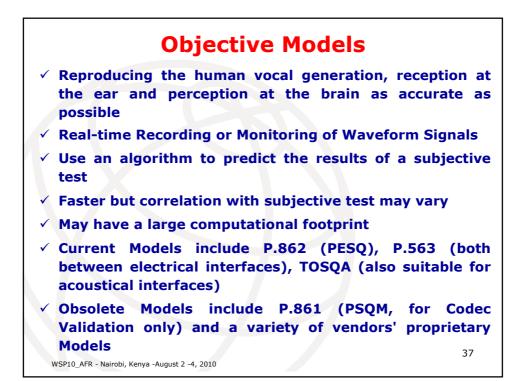


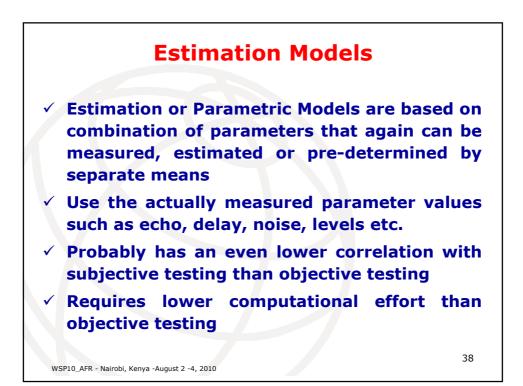


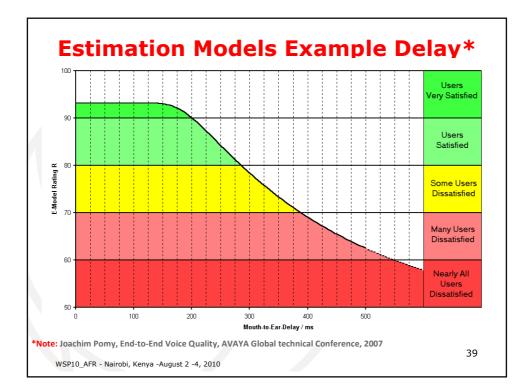












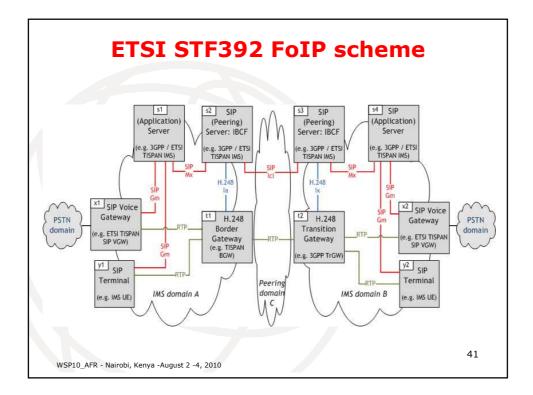
Example of service QoS testing (ETSI STF392)

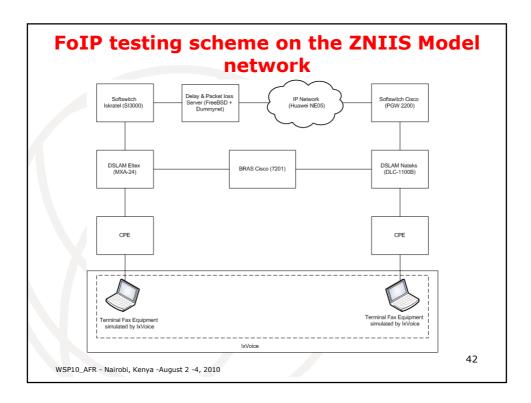
Perceptual Impact of End-to-End Delay and Endto-End Delay Variation on Fax-over-IP (FoIP) and Modem-over-IP (MoIP)

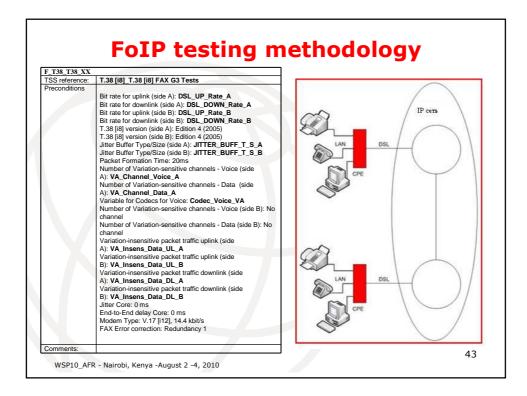
ME: IXIA 400T chassis for Fax-over-IP simulation

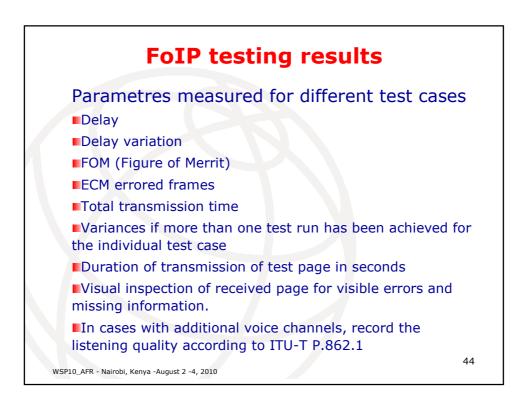
Purpose: Emphasis is on the modem/facsimile transmission using different codecs and media gateways and gateways in order to determine the margins of the media gateways and gateway parameters that enable a successful and reliable real-time modem/facsimile transfer over packet-based networks.

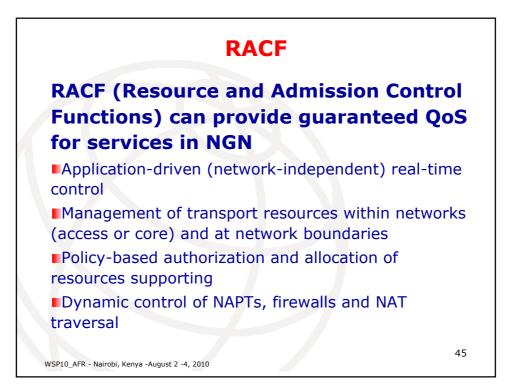
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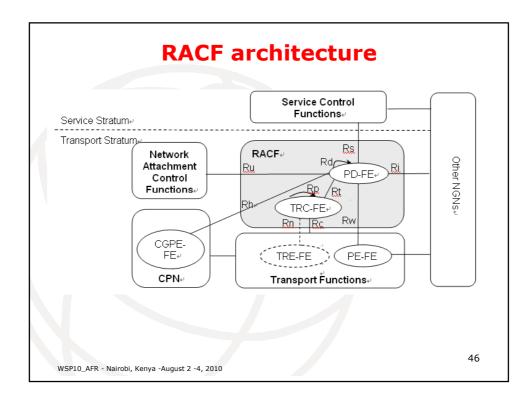


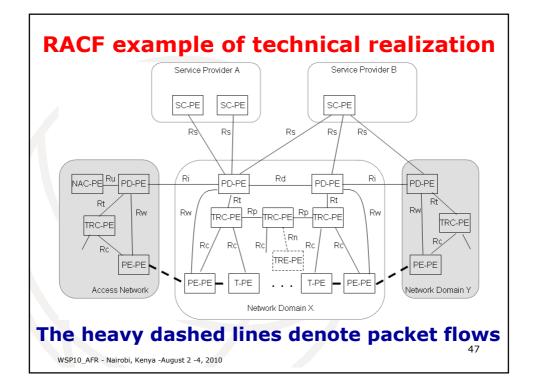












Interface	Supporting Entities	Protocol Base (Note)	Rec. No.	Status
Rs	SC-PE, PD-PE	Diameter	Q.3301.1	Published
Rp	Between TRC-PE	RCIP	Q.3302.1	Published
Rw	PD-PE, PE-PE	Introduction	Q.3303.0	Published
		COPS-PR	Q.3303.1	Published
		H.248	Q.3303.2	Published
		Diameter	Q.3303.3	Published
Rc	TRC-PE, T-PE	COPS-PR	Q.3304.1	Published
		SNMP	Q.3304.2	Published
Rt	PD-PE, TRC-PE	Diameter	Q.3305.1	Published
Rd	PD-PE to PD-PE (intra- domain)	Diameter	Q.3306.1	Published
Ri	PD-PE to PD-PE (inter- domain)	Diameter	Q.3307.1	Published
Q.QCP	QoS Coordination Protocol	RSVP	Q.3309	Published
Rn	TRC-PE, TRE-PE	Interface is for further study	-	

Draft	Title		
Q.3308.1	Draft Q.3308.1: Protocol at the interface between Resource Admission Control Physical Entity (RAC-PE) and CPN Gateway Physical Entities (CG-PE) (CGPE-PE and CGPD-PE) (Rh/Rh' interface)		
Q.3320	20 Draft Q.3320: Architectural framework for the Q.332x series of Recommendations		
Q.3321.1	Draft Q.3321.1: Protocol at the interface between Service Control Physical Entity (SC-PE) and Resource and Admission Control Physical Entity (RAC-PE) (Rs interface)		
Q.3322.1	Draft Q.3322.1: Resource control protocol no. 2 (rcp2), Protocol at the interface between Transport Resource Control Physical Entities (TRC-PEs) (Rp interface)		
Q.3323.1	Draft Q.3323.1: Resource control protocol no.3: COPS Profile, Protocol at the Rw interface between Policy Decision Physical Entity (PD-PE) and Policy Enforcement Physical Entity(PE- PE)		
Draft Q.3323.2: Resource control protocol no.3 (H.248 Rw Profile), Protocol at the Rw interface between a Policy Decision Physical Entity (PD-PE) and a Policy Enforcement Physical Entity (PE-PE) (Rw interface)		2010-2Q	
Q.3323.3	Draft Q.3323.3: Resource control protocol no. 3 (rcp3)	2010-2Q	

Draft	Title			
Q.3324.1	Draft Q.3324.1: Resource Control Protocol no. 4 (rcp4), Protocol at the interface between a Transport Resource Control Physical Entity (TRC-PE) and a Transport Physical Entity (T-PE) (Rc interface): COPS alternative			
Q.3324.2	Draft Q.3324.2 : Resource control protocol no. 4 SNMP Profile, Protocol at the Rc interface between a Transport Resource Control Physical Entity (TRC-PE) and a Transport Physical Entity (T-PE) (Rc interface)			
Q.3325.1	Draft Q.3325.1: Resource Control Protocol no. 5 (rcp5), Protocol at the interface between a Transport Resource Control Physical Entity (TRC-PE) and a Policy Decision-Physical Entity (PD-PE) (Rt interface): Diameter based			
Q.ANCP	Draft Q.ANCP: Use of the Access Node Control Protocol on the Rp Interface			
Q.FlowStateSig	Draft Q.Flowstagesig: Resource control protocol for Flow State Aware Access QoS Control in an NGN			
Q.PCNApp	PCNApp Draft Q.PCNApp: Enhancement of resource admission control to use pre-congestion notification (PCN)			
Q.rsctm	Draft Q.rstcm: Signalling flows and protocols for support of IPTV services	2010-2Q		
Q.sigafmob	Draft Q.sigafmob: Signalling architecture and signalling flows for mobility	2010-2Q		

