

Source: SA5 (Telecom Management)
Title: WID WT IP bearer network Performance measurement definitions
Document for: Approval
Agenda Item: 7.5.3

3GPP TSG-SA5 (Telecom Management)
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

S5-050297

Work Item Description

Title: IP Network Performance Measurements definition
Acronym: OAM7-PM
Unique_ID: 35061

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

still to be defined:

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM)

WI	Unique_ID
OAM7	35041

Performance Management (BB: OAM-PM)

WI	Unique_ID
OAM-PM	35043

3 Justification

Standardising performance measurements can bring a unified criterion for operators to evaluate the performance of networks provided by different vendors. With the evolution of RAN and All-IP Networks, it is very important to measure the performance of IP network between any two among RNCs, SGSNs, GGSNs, MGWs and MSC Servers. At present, 3GPP does not have performance measurements for it. Hence, it is necessary for us to look into ways to define these measurements.

This WT proposes to widen the scope of TS 32.403 to include 3GPP support of IP network performance measurements either by reference to existing measurements from other standards bodies or by initiating an effort in those standards bodies to include the counters that we would identify in this WT. IP performance mainly deals with the time delay, jitter, packet loss etc between any two NEs.

Some of the IP network performance measurements methods have been defined in other standard bodies, such as IETF, so their work can be used as reference.

4 Objective

Include support of Performance Measurement Counters for IP bearer network in TS 32.403 either by reference to existing measurements from other standards bodies (ITU-T, IETF) or by initiating an effort in those standards bodies to include the counters that we would identify in this WT.

- 5 **Service Aspects**
None
- 6 **MMI-Aspects**
None
- 7 **Charging Aspects**
None
- 8 **Security Aspects**
None
- 9 **Impacts**

Affects:	USIM	ME	AN	CN	Others
Yes			X	X	
No	X	X			X
Don't know					

10 **Expected Output and Time scale (to be updated at each plenary)**

New specifications						
Spec No.	Title	1 st resp. WG	2 nd resp. WG(s)	Presented for Information	Presented for Approval	Comments
Affected existing specifications						
Spec No.	CR	Subject	CR Approved	Comments		
32.403			12/2005	Performance Measurements - UMTS and combined UMTS/GSM		

- 11 **Work item rapporteurs**
lilianyuan@chinamobile.com, Li Yewen (liyewen@chinamobile.com)
- 12 **Work item leadership**
SA5
- 13 **Supporting Companies**
China Mobile, Lucent, Huawei, ZTE, CATT,
- 14 **Classification of the WI (if known)**

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

- 14a The WI is a Feature: List of building blocks under this feature
(list of Work Items identified as building blocks)
- 14b The WI is a Building Block: parent Feature
(one Work Item identified as a feature)
- 14c The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

still to be defined:

Performance Management (BB: OAM-PM)

WI	Unique_ID
OAM-PM	35043