

**Source:** SA5 (Telecom Management)  
**Title:** WID WT ATM bearer network Performance measurements  
**Document for:** Approval  
**Agenda Item:** 7.5.3

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

**S5-050296**

**Work Item Description**

**Title:** ATM bearer network Performance measurements  
**Acronym:** OAM7-PM  
**Unique\_ID:** 35060

**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**

Performance measurements are very important in analysing, optimising and forecasting the UMTS system performance. In 32.403, there are 14 performance measurement families related to the RNC, which are focus on the Radio network layer. The performance measurement definitions of bearer network are absent, which may help to evaluate the transport network layer(TNL) performance, and give more detail to analyse RNC performance.

Before the Release 5 (eg. R99,R4), the TNL in UTRAN is based on ATM. In Release 5, the TNL based on IP is introduced[see 25.401], but the TNL based on ATM still also an optional technique. Therefore, It is necessary to study the ATM bearer network performance measurement definitions to analyse network performance more efficiently.

**4 Objective**

The work should focus on ATM bearer network performance measurement definitions related to the RNC, which may include the protocols of TNL (SCCP, ALCAP, SSCOP, MTP3B e.g.). But the work would not be restricted to UTRAN, and the study result should be added into TS 32.403 Release 7. Include 3GPP Rel-7 support of ATM bearer network Performance Measurement Counters in

TS 32.403 either by reference to existing measurements from other standards bodies (ITU-T, ATM Forum) or by encouraging companies to initiate an effort in those standards bodies to include the counters that we would identify in this WT on behalf of their individual companies.

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

Affects:	UICC apps	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	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject			Approved at plenary#	Comments
32.403					12/2005	Performance Measurements - UMTS and combined UMTS/GSM

- 11           **Work item rapporteur(s)**  
Huang Shuqiang (huangsq@zte.com.cn)
- 12           **Work item leadership**  
SA5
- 13           **Supporting Companies**  
ZTE, China Mobile, Huawei, 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