

**Source:** SA5  
**Title:** Work Item Description: Rel5 Performance Management  
(Building Block: OAM-PM)  
**Document for:** Approval  
**Agenda Item:** 7.5.3

---

The present update of the Rel4/5 WID approved at SA#10 is reflecting the Rel4 achievements and the work to be performed in Rel5.

### Work Item Description

---

**Title:** Performance Management (Building Block: OAM-PM)

#### 1 3GPP Work Area

	Radio Access
	Core Network
X	Services (specifically, 3G Telecom Management: OAM&P)
	Terminals

#### 2 Linked work items

- OAM&P (Operations, Administration, Maintenance & Provisioning) Enhancements (SA5 Feature)

#### 3 Justification

During the lifetime of a UMTS network, its logical and physical configuration will undergo changes of varying degrees and frequencies in order to optimise the utilisation of the network resources. These changes will be executed through network configuration management activities and/or network engineering, see 3GPP TS 32.406-300 and 32.600 series.

Many of the activities involved in the daily operation and future network planning of a UMTS network require data on which to base decisions. This data refers to the load carried by the network and the grade of service offered. In order to produce this data performance measurements are executed in the NEs, which comprise the network. The data can then be transferred to an external system, e.g. an Operations System (OS) in TMN terminology, for further evaluation. It is necessary to describe the mechanisms involved in the collection of the data and the definition of the data itself.

This building block is aiming at the addition of functionality, as specified in the list of “children” Work Tasks below, which was not completed in Release 99 (Rel3) and Release 4.

#### 4 Objective

The objective of this building block is to provide the following functionality in the 3G PM specification 32.104:

- Performance monitoring
- File format enhancement
- Plug and Measure
- Measurement definitions

#### 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			
Don't know					X

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

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
none						
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
32.104-1				TSG#11-14 (0312/01)	PM enhancements for Release 4 <u>Monitoring and File Format Enhancements for Release 5</u>	
32.104-3				TSG#14 (12/01)	PM enhancements <u>Measurement Definitions for Release 5</u>	

### 11 Work item rapporteurs

Karl-Heinz NENNER (T-Mobil) [karl-heinz.nenner@t-mobil.de](mailto:karl-heinz.nenner@t-mobil.de)

### 12 Work item leadership

SA5

### 13 Supporting Companies

Ericsson LM, Mannesmann Mobilfunk, Motorola, Nortel, Siemens, Telenor, T-Mobil

### 14 Classification of the WI (if known)

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

14b The WI is a **Building Block**: parent **Feature**:

- OAM&P (Operations, Administration, Maintenance & Provisioning) Enhancements (SA5)

## 15 Work Tasks under this Building Block

Building Block	Work Task	Description	Release
PM	Performance monitoring	Define the functional requirements for the generation of performance alarms for the standard measurement set specified in TS 32.104, including the control and configuration of performance thresholds.	Release 4/5
	File format enhancement	Non-3G-standard measurement results to be contained in the PM files; Ability to select measurement results that are included in the PM files; Control of the transfer of PM result files from the network to the NM.	Release 4/5
	Plug and Measure	Scoping of measurements inside a node with automatic reconfiguration of the measurement when a scoped resource is added or removed. <u>Completed in Release 4!</u>	Release 4/5 <b>(Completed in Rel4)</b>
	Measurement definitions	<del>Definition of</del> Additions to the standard measurement set for UMTS. This includes a subset of the measurements proposed in TR32.800 that have not yet been discussed and decided on by the PM RG.	Release 4/5
	Consistency check with TR 32.800 (UOAM)	<u>Completed in Release 4!</u>	Release 4 <b>(Completed in Rel4)</b>