Technical Specification Group Services and System Aspects **TSGS#18(02)0754**
Meeting #18, New Orleans, USA, 9-12 December 2002

Source:	**SA5 (Telecom Management)**
Title:	**Updated Rel-6 WID BB OAM-NIM Network Infrastructure Management (32100-, 300-, 600-Series)**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   **S5-027036**
Meeting #32, Vienna, AUSTRIA, 18-22 November 2002

Work Item Description

Title: **Network Infrastructure Management** (Building Block: **OAM-NIM**) (Rel6)

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

   ?? Principles, high level Requirements and Architecture (SA5 BB OAM-AR)

3   Justification

The 3GPP TSs in the 32.1xx, 32.3xx and 32.6xx series need to evolve in Release 6. The work areas to be covered are:

   ?? Configuration Management (CM) Framework enhancements
   ?? Network Resource Model enhancements
   ?? Fault Management (FM) Framework enhancements
   ?? Performance Management (PM) IRP IS-SS specification

- ?? Communication Surveillance
- ?? Security Management
- ?? Log Management
- ?? Generic File Transfer
- ?? Backward Compatibility
- ?? State Management Enhancements
- ?? Inventory Management
- ?? XML Reconciliation
- ?? Alignment of Notification IRP with ITU
- ?? ATM-UTRAN interface management

4 Objective

The existing IRP Information Services and Network Resource Models need to be extended to support new Release 6 entities and functionality in the Radio Access and Core Networks. The CM and FM frameworks and some of the IRPs also need to be enhanced, and some new IRPs need to be introduced (e.g. PM IRP), in order to provide a more efficient management over the Itf-N interface.

5 Service Aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None (regarding the mobile network security)

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
32.1xx 32.3xx 32.6xx	TBD	SA5	none	TSG#20 (06/03)	TSG#21 (09/03)	Release 6
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
32.1xx 32.3xx 32.6xx	CR xxx	TBD		TSG#21 (09/03)		Release 6

11 Work item Rapporteurs

Thomas TOVINGER (Ericsson), Jörg SCHMIDT (Motorola) , Frédéric Bonneau (Nortel Networks).

12 Work item leadership

SA5

13 Supporting Companies

CMCC, Ericsson, Huawei, Motorola, Alcatel, CATT, Eastern Communications, Nokia, Nortel Networks, Siemens, Shanghai Bell, Vodafone Group, ZTE, T-Mobile.

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** under the Parent **Feature:**

   ?? OAM (SA5)

15 Work Tasks under this Building Block

The following table shows the related WIDs, driving and supporting companies for each work item.

WI #	Work Item	WI Descr.	Linked Work Items (WTs)	Driving company	Supporting companies (driving company listed first, other companies in alphabetical order)
1	Security Management	S5-026740	OAM-NIM	Huawei	Huawei, CMCC, Alcatel, CATT, Eastern Communications, Ericsson, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, T-Mobile, Vodafone Group, ZTE.
2	Communication Surveillance	S5-026741	OAM-NIM	CMCC	CMCC, Alcatel, CATT, Eastern Communications, Ericsson, Huawei, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, Vodafone Group, ZTE.
3	Entry Point	S5-026742	OAM-NIM	CMCC, Ericsson	CMCC, Ericsson, Alcatel, CATT, Eastern Communications, Huawei, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, Vodafone Group, ZTE.
4	Alignment of CMCC CM framework and 3GPP CM IRP framework (operations/ notifications)	S5-026743	OAM-NIM	CMCC	CMCC, Alcatel, CATT, Eastern Communications, Ericsson, Huawei, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, Vodafone Group, ZTE.
5	Alignment of CMCC & 3GPP SA5 Network Resource Models	S5-026744	OAM-NIM	Ericsson, Huawei	Ericsson, Huawei, Alcatel, CMCC, CATT, Eastern Communications, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, Vodafone Group, ZTE.
6	Alignment of CMCC FM framework and 3GPP FM IRP framework	S5-026745	OAM-NIM	CMCC	CMCC, Alcatel, CATT, Eastern Communications, Ericsson, Huawei, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, Vodafone Group, ZTE.
7	Generic File Transfer IRP	S5-026746	OAM-NIM	Motorola	Motorola, Alcatel, CMCC, Ericsson, Huawei, Nortel Networks.
8	Log Management IRP	S5-026747	OAM-NIM	Motorola	Motorola, CMCC, Ericsson, Huawei, Siemens.
9	Backward Compatibility	S5-026870	OAM-NIM	Ericsson	Ericsson, AWS, CMCC, Motorola, Nortel Networks, Telia, Vodafone UK.
10	State Management Enhancements	S5-026877	OAM-NIM	Siemens	Siemens, Alcatel, CMCC, Motorola, T-Mobile.
11	Inventory Management	S5-026878	OAM-NIM	T-Mobile	T-Mobile, Motorola, Nortel Networks, Siemens.
12	General Network Resource Model Enhancements	S5-027007	OAM-NIM	AWS	AWS, Ericsson, Huawei, Motorola, T-Mobile, Telcordia.
13	ATM-UTRAN interface management	S5-027021	OAM-NIM	T-Mobile	T-Mobile, AWS, CMCC, Huawei Technologies, Nortel Networks, Siemens, Vodafone.
14	XML Reconciliation	S5-027023	OAM-NIM	Motorola	Motorola, Ericsson, Nortel Networks, Telcordia.
15	Align Notification IRP with ITU	S5-027024	OAM-NIM	AWS	AWS, CMCC, Huawei, T-Mobile, Telcordia.
16	UTRAN NRM Enhancements for TDD and FDD modes	S5-027022	OAM-NIM	T-Mobile, CATT	CATT, T-Mobile, CMCC, Huawei, Siemens, Vodafone.
D	PM IRP specification (joint SWG-C/SWG-D work on PM IRP)	SWG-D WID S5-028332 - Performance Management IRP Information Service and Solution Set specification (Rel6)	OAM-NIM OAM-PM	Ericsson	Ericsson, CMCC, CATT, Eastern Communications, Huawei, Motorola, Nokia, Nortel Networks, Siemens, Shanghai Bell, ZTE.

16 Abbreviations

Abbreviations used:

CM	Configuration Management
CORBA	Common Object Request Broker Architecture
FM	Fault Management
IRP	Integration Reference Point
IS	Information Service
NRM	Network Resource Model
PM	Performance Management
SNMP	Simple Network Management Protocol
SS	Solution Set