

**Source:** SA5 (Telecom Management)  
**Title:** Updated WID Rel-6 OAM-NIM  
**Document for:** Approval  
**Agenda Item:** 7.5.3

**3GPP TSG-SA5 (Telecom Management) Meeting #40, Sanya, CHINA, 15 - 19 November 2004**

**S5-047139**

**Work Item Description**

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

**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 covered are:

- Configuration Management (CM) framework enhancements
- Network Resource Model enhancements
- Fault Management (FM) framework enhancements
- Performance Management (PM) enhancements
- Communication Surveillance
- Security Management
- Log Management
- Generic File Transfer
- Backward Compatibility
- State Management enhancements
- Inventory Management
- XML Reconciliation
- Transport network interface management
- UTRAN NRM enhancements for TDD and FDD modes

**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					

## 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
32.150 32.151 32.152 32.805 32.111-5 32.313 32.314 32.331 32.332 32.333 32.334 32.335 32.341 32.342 32.343 32.344 32.351 32.352 32.353 32.354 32.361 32.362 32.363 32.364 32.371 32.372 32.373 32.374 32.804 32.675 32.690 32.695 32.711 32.712 32.713 32.714 32.715 32.741 32.742 32.743 32.744 32.745		SA5	none		12/2004	TSG#25 completed
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
32.1xx 32.3xx 32.4xx 32.6xx				12/2004		TSG#25 completed

- 11 Work item Rapporteurs**  
Thomas TOVINGER (Ericsson), Jörg SCHMIDT (Motorola)
- 12 Work item leadership**  
SA5
- 13 Supporting Companies**  
CMCC, Ericsson, Huawei, Motorola, Alcatel, CATT, Nokia, Nortel Networks, Siemens, Vodafone Group, 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

SA5 approved WIDs for the following WT's can be found at: [ftp://ftp.3gpp.org/tsg\\_sa/WG5\\_TM/Work\\_Item\\_sheets/](ftp://ftp.3gpp.org/tsg_sa/WG5_TM/Work_Item_sheets/)

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	Void				
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

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

form change history:  
2002-07-04: "USIM" box changed to "UICC apps"

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~~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  
(32.100-, 300-, 400-, 600-Series)  
**Document for:** Approval  
**Agenda Item:** 7.5.3~~

**3GPP TSG-SA5 (Telecom Management)**  
**Meeting #40, Sanya, CHINA, 15 - 19 November 2004**

[S5-047139](#) [S5-027036](#)

### 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) ~~f~~Framework enhancements
- Network Resource Model enhancements
- Fault Management (FM) ~~f~~Framework enhancements
- Performance Management (PM) ~~enhancements~~ [IRP-IS-SS specification](#)
- Communication Surveillance
- Security Management
- Log Management
- Generic File Transfer
- Backward Compatibility
- State Management ~~e~~Enhancements
- Inventory Management
- XML Reconciliation
- ~~Alignment of Notification IRP with ITU~~
- ~~ATM-UTRAN~~ [Transport network](#) interface management
- [UTRAN NRM enhancements for TDD and FDD modes](#)

#### 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.

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*None*

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**9 Impacts**

<b>Affects:</b>	<b>UICC apps</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>			X	X	
<b>No</b>	X	X			X
<b>Don't know</b>					

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

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32.150 <a href="#">32.151</a> <a href="#">32.152</a> <a href="#">32.805</a> <a href="#">32.111-5</a> <a href="#">32.313</a> <a href="#">32.314</a> <a href="#">32.331</a> <a href="#">32.332</a> <a href="#">32.333</a> <a href="#">32.334</a> <a href="#">32.335</a> <a href="#">32.341</a> <a href="#">32.342</a> <a href="#">32.343</a> <a href="#">32.344</a> <a href="#">32.351</a> <a href="#">32.352</a> <a href="#">32.353</a> <a href="#">32.354</a> <a href="#">32.361</a> <a href="#">32.362</a> <a href="#">32.363</a> <a href="#">32.364</a> <a href="#">32.371</a> <a href="#">32.372</a> <a href="#">32.373</a> <a href="#">32.374</a> <a href="#">32.804</a> <a href="#">32.675</a> <a href="#">32.690</a> <a href="#">32.695</a> <a href="#">32.711</a> <a href="#">32.712</a> <a href="#">32.713</a> <a href="#">32.714</a> <a href="#">32.715</a> <a href="#">32.741</a> <a href="#">32.742</a> <a href="#">32.743</a> <a href="#">32.744</a> <a href="#">32.745</a> <del>32.3xx</del> <del>32.4xx</del> <del>32.6xx</del>	TBD	SA5	none	<del>TSG#20 (06/03)</del>	<a href="#">12/2004</a> <del>TSG#21 (09/03)</del>	<a href="#">Release 6</a> <del>TSG#25 completed</del>
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
<a href="#">32.1xx</a> <a href="#">32.3xx</a> <a href="#">32.4xx</a> <a href="#">32.6xx</a>	<del>CR-xxx</del>	TBD		<del>TSG#21 (09/03)</del> <a href="#">12/2004</a>		<a href="#">TSG#25 completed</a> <del>Release 6</del>

11 Work item Rapporteurs

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

12 Work item leadership

SA5

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15	Align Notification IRP with ITU Void	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.
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