3GPP TR 32.807 V0.0.3 (2006-03)

Technical Report

**3rd Generation Partnership Project;
Technical ReportGroup Services and System Aspects;
Telecommunication management;
Project scheduling and open issues for SA5 Release 7**

**GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS**

Keywords
Telecom management, OAM&P, Charging

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Contents

1 Scope

The purpose of this document is to contain the updated Work Item Descriptions (WIDs) and capture status of all TSG SA WG5 work items of the current 3GPP Release in order for the group to get an overview of current ongoing work.

This TR is used as a mean to provide input to the complete 3GPP work plan that is handled by MCC.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]   http://www.3gpp.org/ftp/Information/WORK_PLAN/

[2]   http://www.3gpp.org/ftp/Information/WI_Sheet/

SA5 Work Plan snapshoot

Unique ID	Name	Acronym	% Cpl	Impacted TSs and TRs	Rapporteur
35041	OAM&P	OAM7	28%		Christian TOCHE
35042	Network Infrastructure Management	OAM7-NIM	28%		
35044	Enhance NRM to accommodate NGN (IMS as basis of the Next Generation Network)	OAM7-NIM-NGN	10%	32.632, 32.633, 32.634, 32.635	BT
35045	IRP usage scenarios	OAM7-NIM	0%	new TR 32.8xy	Lucent
35046	Co-operative Element Management interface (CO-OP)	OAM7-NIM-COOP	75%	new TR 32.8xy, 32.101	Motorola
35047	Network Management (NM) Itf-N performance criteria	OAM7-NIM	30%	new TS 32.y zx	China Mobile
35048	Delta synchronization between IRP Manager and IRP Agent	OAM7-NIM	55%	new TR 32.8xy, new TSs 32.111-n, 32.60n; For n = 1 to 5	Siemens
35049	Subscription Management (SuM) IRP Solution Sets	OAM7-NIM-SuM	55%	32.101, 32.175, new TSs 32.161, 32.307, 32.317, 32.607, 32.617, 32.667	Ericsson
35050	Integration Reference Point (IRP) Security Management	OAM7-NIM	40%	New TSs 32.372, 32.373, 32.374; 32.111, 32.30x, 32.32x, 32.33x, 32.34x, 32.35x, 32.36x, 32.41x, 32.60x, 32.61x, 32.66x	Huawei
35051	Integration Reference Point (IRP) Methodology	OAM7-NIM	15%	New TSs 32.15w, 32.15x, 32.15y, 32.15z; 32.150, 32.151, 32.152	Ericsson
35052	Partial suspension of Itf-N during maintenance/testing	OAM7-NIM	50%	new TR 32.8xy, new TSs 32.30n, 32.60n, 32.61n; For n = 1 to 5	Siemens
35053	Advanced Alarming on Itf-N	OAM7-NIM	35%	new TR 32.8xy ; New TSs 32.111-n, 32.30n; For n = 1 to 5	Siemens
35054	Management of Legacy Equipment	OAM7-NIM	20%	new TS 32.xxx, New TSs 32.62n, 32.63n, 32.64n, 32.65n, 32.71n, 32.74n, 32.69n; For n = 1 to 5	Siemens
35055	Rules for Vendor Specific Extensions	OAM7-NIM	20%	32.62n; For n = 1 to 5	Siemens
35056	CN CS Bearer Transport Network (BTN) relative NRM	OAM7-NIM	45%	New Tss TS 32.xx1, TS 32.xx2, TS 32.xx3, TS 32.xx4	China Mobile
35064	Backward and Forward Compatibility of IRP systems	OAM7-NIM-BFC	10%	TR 32.805, new TS 32.15X	Ericsson
35065	Study of Element Operations Systems Function (EOSF) definition	OAM7-NIM- EOSF	15%	new TR 32.8xy	China Mobile
35066	Study of SOAP/HTTP IRP Solution Sets	OAM7-NIM-SOAP	20%	new TR 32.8xy	Nortel
35067	Study of Itf-N Implementation Conformance Statement (ICS) template	OAM7-NIM-ICS	15%	new TR 32.8xy	China Mobile
35068	Study of IRP Information Model	OAM7-NIM-IM	30%	new TR 32.8xy	Motorola
35071	Repeater Network Ressource Model (NRM) definition	OAM7-NIM	5%	32.64n; For n = 1 to 5	China Mobile
35072	UTRAN radio channel power monitoring	OAM7-NIM	20%	32.403, 32.64n; For n = 1 to 5	China Mobile
35074	NEW Study on SA5 MTOSI XML Harmonization	OAM7-NIM-XML	0%	new TR 32.8xy	Nortel
35043	Performance Management	OAM7-PM	33%		
35057	Performance measurements definition for CN CS	OAM7-PM	65%	New TS 32.xy z	China Mobile
35058	Enhancement UTRAN performance measurements definition	OAM7-PM	20%	32.403	China Mobile
35059	Add TDD specific counters in Performance measurement	OAM7-PM	75%	32.403	CATT
35060	ATM bearer network Performance measurements	OAM7-PM	30%	32.403	ZTE
35061	IP bearer network Performance measurement definitions	OAM7-PM	20%	32.403	China Mobile
35069	Performance measurements definition for IMS	OAM7-PM-IMS	5%	new TS 32.xy z	China Mobile
35073	HSDPA performance measurements	OAM7-PM	5%	32.403	China Mobile
35039	Trace Management	OAM7-Trace	20%		
35040	Trace Management for IMS	OAM7-Trace-IMS	0%	32.421, 32.422, 32.423	Nortel
35062	End-to-end Service Level tracing for IMS	OAM7-Trace-IMS	20%	32.101, 32.421, 32.422, 32.423	Vodafone
35070	IRP for Subscriber and Equipment Trace Management	OAM7-Trace-IRP	10%	32.421, 32.422, 32.423, 3 new TS 32.4x1,2,3	Nokia
35063	Trace record content for UTRAN TDD	OAM7-Trace-TDD	75%	32.421, 32.422, 32.423	CATT

Feature: Operations, Administration, Maintenance & Provisioning - OAM&P (OAM7) Unique_ID: 35041

Building Block: Network Infrastructure Management (OAM7-NIM) Unique_ID: 35042

Technical Specification Group Services and System Aspects	*TSGS#28(05)0302*
Meeting #28, Quebec, CANADA, 06-08 June 2005	

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Enhance NRM to accommodate NGN (IMS as basis of the Next Generation Network)**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   S5-050280
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Enhance NRM to accommodate NGN (IMS as basis of the Next Generation Network) Unique_ID: 35044
Acronym: OAM7-NIM-NGN

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

The IMS has been adopted as the basis of the Next Generation Network (NGN).
It is proposed to enhance the 3GPP NRM in TS 32.63x Configuration Management (CM); Core Network Resources Integration Reference Point (IRP) - to accommodate any additional requirements identified.

4   Objective

In liaison with other groups (e.g. ETSI TISPAN, TeleManagement Forum (TMF), ITU-T SG4, Multiservice Switching Forum (MSF) to enhance the Core Network Resource Model to support the requirements of NGN Release 1 and Voice over IP (VoIP).

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	
No	X	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
32.632		Enhance NRM to accommodate NGN	3GPPSA#34 Dec 2006	Configuration Management (CM); Core Network Resources IRP: Network Resource Model (NRM)
32.633		Enhance NRM to accommodate NGN	3GPPSA#34 Dec 2006	CM; Core network resources IRP: CORBA SS
32.634		Enhance NRM to accommodate NGN	3GPPSA#34 Dec 2006	CM; Core network resources IRP: CMIP SS
32.635		Enhance NRM to accommodate NGN	3GPPSA#34 Dec 2006	CM; Core network resources IRP: XML file format definition

11 Work item rapporteur(s)

    Geoff CARYER, BT (geoff@caryer.co.uk)

12 Work item leadership

    SA5

13 Supporting Companies

    BT, Lucent, Motorola, Nortel, Ericsson, Nokia, Orange

14 Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

    Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects   *TSGS#28(05)0303*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT IRP usage scenarios**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   S5-050281
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
IRP usage scenarios   Unique_ID: 35045
Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

The OAM&P (Operations, Administration, Maintenance & Provisioning) aspects of mobile networks are satisfied via the Itf-N using capabilities exposed via standardised Integration Reference Points (IRPs).
The Itf-N becomes increasingly important as multi-vendor integration becomes a necessity.
The IRPs will benefit from the addition of usage scenarios to provide example usage, against example resource instances so that operational signatures can be shown with example populated values.
Several IRPs may need to be used in a co-ordinated way to solve some network tasks. For example:

- Network start-up and provisioning (application of bulk CM)
- Network recovery from failures
- Network extensions adding new NEs
- NE (e.g. Node B) re homing
- Usage of filters in the notification and alarm IRPs
- usage of scope and other subscription information
- Scenarios considering multiple manager scenarios.
- Detection and Recovering from missing notifications. (resulting in invalid state transitions)

Development of scenarios without this WID could be considered as being out of scope for IRP maintenance activities.

4   Objective

The objective of this WI is to make the IRPs more accessible to any person or organization needing to use the IRPs, and to hopefully reduce ambiguities, or interpretation of the specifications by re-enforcement with worked examples.
This WI will not directly document interpretations of the IRP specifications.
When ambiguities are detected in the IRP specifications, and have been agreed by this WI group, the problem and suggested resolutions should be sent to the relevant existing Work Tasks for discussion.
If agreement is found, the additional clarification text shall be included into the existing IRPs involved.

5   Service Aspects
None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

Considerations may be needed for multi vendor operation.

Additionally MVNO operations may need to be considered.

9 Impacts

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

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

The result of this work will be a usage guide (TR).

Information produced within this TR may eventually become consolidated into particular IRP specifications (TSs).

The direct impact on other TSs will only occur if ambiguities or problems are identified.

There are numerous areas of interest. The groups first activity will be to jointly agree on which areas to approach first.

New specifications					
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary #	Approved at plenary #	Comments
32.80x	Telecommunication management; Integration Reference Points (IRPs) usage scenarios	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary #	Comments

11 Work item rapporteur(s)

John ISLIP, Lucent (islip@lucent.com)

12 Work item leadership

SA5

13 Supporting Companies

Lucent, China Mobile, Ericsson, Nortel, Siemens, Huawei, Motorola, CATT

14 Classification of the WI (if known)

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

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#28(05)0304*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Co-operative Element Management interface (CO-OP)**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management) S5-050282
Meeting #42, Montreal, CANADA, 9 - 13 May 2005

Work Item Description

Title:
Co-operative Element Management interface (CO-OP) Unique_ID: 35046
Acronym: OAM7-NIM-COOP

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

Networks are often multi-vendor, whereas Operations Support Systems (OSSs) are single vendor.
Traditional architectures allow multi-vendor capabilities to be provided through integration to a vendor-independent
Network Management System (NMS), by means of northbound interfaces (i.e. the existing 3GPP IRPs).

The aim of this work item is to enable the NMS (and the human operator) to monitor and configure border aspects
between Element Management Systems (EMSs) / IRP Agents (within a vendor's domain and across vendors domains).
This will be achieved through sharing of information, responsibility and management knowledge between EMSs over a
horizontal peer-to-peer (p2p) interface.

4   Objective

Sharing of information, responsibility and management knowledge between EMSs over a horizontal peer-to-peer (p2p)
interface (reusing and/or enhancing existing 3GPP IRPs) is the objective of this work item.

Examples of shared responsibility and management knowledge between EMSs that this Work item will address:

- Read domain topology data
- Subscribe to state changes
- Receive events/alarms
- Requests functions
- Common Key Performance Indicators (KPIs)

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			
Don't know					X

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
TR 32.806	Telecommunication management; Application guide for peer-to-peer (p2p) Integration Reference Points (IRPs)	SA5	none	3GPPSA#33 Sep 2006~~3GPPSA#30 Dec 2005~~	3GPPSA#34 Dec 2006~~3GPPSA#31 Mar 2006~~	

			Affected existing specifications		
Spec No.	CR		Subject	Approved at plenary#	Comments
32.101			EM to EM Interface	3GPPSA#34 Dec 2006~~3GPPSA#31 Mar 2006~~	

Number	Title	Release	current version	rapporteur
32.806	Telecommunication management; Application guide for use of Integration Reference Points (IRPs) on peer-to-peer (p2p) interface	Rel-7	1.0.1	TRUSS, Michael

Reason for re-scheduling: No feedback from Rapporteur

11 Work item rapporteur(s)

Michael.Truss@motorola.com Remains Rapp (or change to Trevor/Joerg ?)

12 Work item leadership

SA5

13 Supporting Companies

Motorola, Ericsson, Nokia, NEC, Siemens, Lucent, Nortel, Huawei, Alcatel, ZTE

14 Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#28(05)0305*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Network Management (NM) Itf-N performance criteria**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management) S5-050283
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Network Management (NM) Itf-N performance criteria Unique_ID: 35047
Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

Performance is a key point to ensure the quality of a product. This is also the case for the UMTS network management Itf-N. The current SA5 specifications define the function requirements and solution for UMTS network management Itf-N. But to ensure the all-around quality of the Itf-N, a series of reasonable performance criteria is needed.
Performance criteria points out the potential risk from the kinds of aspects for UMTS network management Itf-N.
It should be scientific and able to accurately reflect the performance bottle-neck points of the Itf-N.
It's necessary to have a Work Task which focus on the definition of performance criteria to evaluate the performance of Itf-N. These performance criteria will be considered by vendors when implement their products, especially when design the internal architecture of the IRP Agent which may influence the performance of Itf-N.
These performance criteria will also be useful for operators as a guide to evaluate Itf-N products.

4   Objective

Define Itf-N performance criteria. The value definition of itf-N performance criteria is out of the scope of this WID.

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					
No	X	X	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
TS 32.yzx	Telecommunication management; Itf-N performance criteria	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
Affected existing specifications						
Spec No.	CR		Subject		Approved at plenary#	Comments

11 Work item rapporteur(s)

China Mobile (liyewen@chinamobile.com)

12 Work item leadership

SA5

13 Supporting Companies

China Mobile, Huawei, ZTE, CATT, Nortel, Nokia

14 Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#28(05)0306*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Delta synchronization between IRP Manager and IRP Agent**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management) S5-050284
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

Work Item Description

Title:
Delta synchronization between IRP Manager and IRP Agent Unique_ID: 35048
Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

If the connection between the IRPManager and the IRPAgent was lost, then currently the only way for the IRPManager to synchronize again after re-establishment of the connection is to synchronize the complete data.
This can be a huge amount of data, both and individually for Configuration Management (CM) and Fault Management (FM) data, even if only very little data actually has changed in the meantime. This puts an unnecessary load on both the IRPManager and the IRPAgent and can take a long time – even if there was only a short interruptions of the connection.

Other cases where synchronization is needed are e.g.:
- IRPAgent does not send notifications;
- IRPManager does not evaluate notifications;
- loss of notifications on IRPManager side because of system problems;
- inability to generate notifications on IRPAgent side because of system problems.

A mechanism allowing to synchronize only the changed, i.e. new/modified/deleted data, will be beneficial.

4   Objective
a)   Identify data which requires synchronization of only changed data
b)   Define requirements for synchronization of only changed data
c)   Define methods to allow synchronization of only changed data, both for CM and FM
d)   Define methods to allow synchronization of only changed data other than CM and FM data

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)

The result of this work might be a usage guide (TR).

Information produced within this work may eventually become consolidated into particular IRP specifications (TSs).

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary #	Approved at plenary #	Comments
TR 32.8xy	Usage Guide for Delta Synchronisation between IRP Manager and IRP Agent	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary #	Comments	
32.111-n		Add capability for delta synchronization between IRP Manager and IRP Agent		3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split	
32.60n		Add capability for delta synchronization between IRP Manager and IRP Agent		3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split	
Note: For n = 1 to 5						

11   Work item rapporteur(s)
            Clemens SUERBAUM, Siemens (clemens.suerbaum@siemens.com)
12   Work item leadership
            SA5
13   Supporting Companies
            Siemens, Huawei, ZTE, Motorola, Alcatel, China Mobile

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

            Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#28(05)0307*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Subscription Management (SuM) IRP Solution Sets**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management) S5-050285
Meeting #42, Montreal, CANADA, 9 - 13 May 2005

<p style="text-align:center">Work Item Description</p>

Title:
Subscription Management (SuM) IRP Solution Sets   Unique_ID: 35049
Acronym: OAM7-NIM-SuM

Standardization of **SuM operations** will significantly enhance the ability of 3GPP based networks to provision and administer complex services in the areas of:

- Multimedia;
- Data services;
- Value Added Services;
- End-to-end applications.

1   3GPP Work Area

	Radio Access
	Core Network
X	Services

2   Linked work items

<p style="text-align:center">OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)</p>

WI	Unique_ID
OAM7	35041

- SA5: Subscription Management (SuM)
  - o   SA5: SuM Services Operations Management (Requirements, Architecture and Data)

3   Justification

To enable service providers to administer the subscription data defined in the Network Resource Model (NRM) an adequate Interface IRP fulfilling the SuM operations requirements has to be specified.
Rel-6 SuM work concluded existing IRPs shall be reused to fulfill the SuM operations requirements.
The Solution Sets used for these existing IRPs were found not to be adequate for SuM and SOAP has been agreed to be the suitable technology for SuM.
Enhancements in the SuM NRM Information Service will result in adjustment of the existing SuM NRM IRP XML definition.

4   Objective

- Add new SOAP SSs to TS 32.101 Telecommunication management; Principles and high level requirements
- Create a new TS 32.161 on SuM Interface IRP Requirements - for bridging the operations requirements to the Solution Sets;
- Update of TS 32.175 on SuM NRM IRP XML definition and alignment with the SOAP SS used for the Interface IRP;
- For existing IRPs to create new TSs 32.307/317/607/617/667 on SuM Interface IRP SOAP SSs:

      32.307 Notification IRP SOAP SS
      32.317 Generic IRP Management SOAP SS
      32.607 Basic CM IRP SOAP SS
      32.617 Bulk CM IRP SOAP SS
      32.667 Kernel CM IRP SOAP SS

<p style="text-align:center">*3GPP*</p>

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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	
No					
Don't know	X	X	X		X

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
32.161	Subscription Management (SuM) Interface IRP: Requirements	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Bridging the operations requirements to the Solution Sets. Rapporteur: tbd
32.307	Notification IRP SOAP SS	SA5		3GPPSA#31 13 - 15 Mar 20063GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Rapporteur: Ericsson
32.317	Generic IRP Management SOAP SS			3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Rapporteur: Ericsson
32.607	Basic CM IRP SOAP SS			3GPPSA#30 Dec 20053GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Rapporteur: Ericsson
32.617	Bulk CM IRP SOAP SS			3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Rapporteur: tbd
32.667	Kernel CM IRP SOAP SS			3GPPSA#31 13 - 15 Mar 20063GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Rapporteur: Ericsson
Affected existing specifications						
Spec No.	CR		Subject	Approved at plenary #	Comments	
32.101			Add new SOAP SSs	3GPPSA#34 Dec 2006	Telecommunication management; Principles and high level requirements	
32.175			Align with changes in 32.172 and the Interface IRP	3GPPSA#34 Dec 2006	SuM NRM IRP: XML definition	

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11   Work item rapporteur(s)
Thomas Tovinger (thomas.tovinger@ericsson.com)
12   Work item leadership
SA5
13   Supporting Companies
Ericsson, T-Mobile, Nokia, Nortel, Siemens, TeliaSonera, Vodafone, Orange, Motorola

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

- SA5: Subscription Management (SuM)

Technical Specification Group Services and System Aspects   *TSGS#28(05)0308*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Integration Reference Point (IRP) Security Management**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   S5-050286
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Integration Reference Point (IRP) Security Management   Unique_ID: 35050
Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

3   Justification

The 3G Mobile Network is a system that is sensitive to fraud behaviour and contains highly sensitive data that is fundamental to the correct operation of the Mobile Network.
In the context of managing a 3G Mobile Network, the management will exchange sensitive data between the management system and the mobile network.
This proposal builds upon and enhances the Release 6 security work undertaken to date for security management.

4   Objective

The objective of this work item is to enhance the 3GPP Rel-6 security (32.371 Security Concept and Requirements) to further ensure secure access and data protection throughout the OAM network. The following security features, in addition to those specified in 3GPP Rel-6, should be considered:

- Application Layer Authentication
  A capability that allows the IRPAgent to securely determine if the IRP Manager is the user it claims to be.
- Application Layer Authorization
  A capability that allows the IRPAgent to securely determine if the authenticated IRP Manager has the right to manage part or all of the managed network.
- Application Repudiation
- A capability that allows IRPAgent to securely log operations requested.
- Security Aspect
- A Security Aspect section is to be added in each existing IRP respectively.

5   Service Aspects

None

6   MMI-Aspects
None

7   Charging Aspects
None

8   Security Aspects
This work item description is security specific.

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
32.372	IRP Security Management – Information Service	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
32.373	IRP Security Management – Solution Set (CORBA IDL)	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Production TBD later
32.374	IRP Security Management – Solution Set (CMIP GDMO)	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Production TBD later
Affected existing specifications						
Spec No.	CR		Subject	Approved at plenary#		Comments
32.111			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Alarm IRP
32.30x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Notification IRP
32.32x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Test Management IRP
32.33x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Notification Log IRP
32.34x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		File Transfer IRP
32.35x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Communication Surveillance IRP
32.36x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Entry Point IRP
32.41x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Performance Management IRP
32.60x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Basic CM IRP
32.61x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Bulk CM IRP
32.66x			Add functionality IRP Security Management	3GPPSA#34 Dec 2006		Kernel CM IRP
Note: For x = 1 to 5						

11   Work item rapporteur(s)
LI Yang, Huawei (afi@huawei.com)

12   Work item leadership
SA5

13   Supporting Companies
Huawei, China Mobile, Ericsson, Nokia, Siemens, Motorola, Nortel, Lucent, ZTE, CATT, Alcatel

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects *TSGS#28(05)0309*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Integration Reference Point (IRP) Methodology**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management) S5-050287
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Integration Reference Point (IRP) Methodology Unique_ID: 35051
Acronym: OAM7-NIM

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

3 Justification

So far, there are no style guides for Solution Set (except for CORBA) and File Format Description specifications, which means that the style differs in different specifications of the same type (The different types of IRP specifications are Requirements, Information Service, Solution Set and File Format Description).
The IS Template is not complete with regard to the different types of IRPs (Interface, NRM and Data Definition IRPs)
The existing IRP Methodology specifications need to be updated according to the needs of the IRPs, e.g. defining valid implementations of optional attributes etc.
ITU-T sees a need to update the IRP methodology, for their own need. In the LS S5-050055, SA5 answers ITU-T that:

- The creation of an SS template is considered and that it can be done in cooperation with ITU-T SG4.
- Their proposals for 32.150, 32.151 and 32.152 will be evaluated and some of them will be considered.

4 Objective

To have clear guide lines (templates and style guides) for designing Solution Sets and File Format Descriptions as well as Information Services.
To have one place per type of IRP specification where common requirements are documented, rather than having the same text repeated in all specifications of the same type.

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
No	X	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
32.15w	Integration Reference Point (IRP) CORBA Solution Set template	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
32.15x	Integration Reference Point (IRP) CMIP Solution Set template	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
32.15y	Integration Reference Point (IRP) XML definition template	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
32.15z	Integration Reference Point (IRP) ASN.1 definition template	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
Affected existing specifications						
Spec No.	CR	Subject	Approved at plenary#	Comments		
32.150			3GPPSA#34 Dec 2006	IRP Concept and definitions		
32.151			3GPPSA#34 Dec 2006	IRP Information Service (IS) template		
32.152			3GPPSA#34 Dec 2006	IRP Information Service (IS), UML repertoire		

11   Work item rapporteur(s)

Robert Petersen, Ericsson (robert.petersen@ericsson.com)

12   Work item leadership

SA5

13   Supporting Companies

Ericsson, Siemens, Lucent, Nortel

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects   *TSGS#28(05)0310*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Partial suspension of Itf-N during maintenance/testing
Document for:	Approval
Agenda Item:	7.5.3

3GPP TSG-SA5 (Telecom Management)   S5-050288
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Partial suspension of Itf-N during maintenance/testing Unique_ID: 35052
Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

WT Delta synchronization between IRP Manager and IRP Agent

WI	Unique_ID
OAM7-NIM	tbd

3   Justification

In certain scenarios floods of unwanted notifications including alarms will be sent to the IRP manager by network object instances. Thereby the interface and the management systems bear unnecessary load. Even worse: The operator's awareness is drawn away from really urgent events.

Example for such scenarios:
- A failed network element is replaced and tested after installation.
- The configuration of a network region is expanded by additional network elements and the new configuration is scrutinized by tests in the real network.
- The configuration of a network region is changed significantly and the new configuration is scrutinized by tests in the real network, e.g. NE re-homing.

In these scenarios it can also be important that no commands via the Itf-N interfere with actions from the local craft interface (e.g. people working close to antennas would like to have complete control when the radiation is switched on).

Conclusion: A mechanism allowing to suspend Itf-N (i.e. to send no notifications of the involved network elements and/or to disallow Itf-N management operations) for a period of time will be beneficial.

It should also be studied if/which notifications/operations should be exempted from the suspension.
Multi-manager issues need to be addressed. Interworking with data synchronisation mechanisms needs investigation.

4   Objective

e) Define requirements, considering multi-manager aspects and data synchronisation, for mechanisms suspending Itf-N notifications and/or operations for a scope of managed object instances

f)   Define mechanisms to suspend Itf-N notifications and/or operations for a scope of managed object instances

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)

The result of this work will be a usage guide (TR).
Information produced within this TR may eventually become consolidated into particular IRP specifications (TSs).

New specifications							
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary #	Approved at plenary#	Comments	
TR 32.8xy	Usage guide for partially suspending Itf-N	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006		
Affected existing specifications							
Spec No.	CR		Subject	Approved at plenary #	Comments		
32.30n			Add capability for partially suspending Itf-N	3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split		
32.60n			Add capability for partially suspending Itf-N	3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split		
32.61n			Add capability for partially suspending Itf-N	3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split		
Note: For n = 1 to 5							

11   Work item rapporteur(s)
Clemens SUERBAUM, Siemens (clemens.suerbaum@siemens.com)
12   Work item leadership
SA5
13   Supporting Companies
Siemens, Alcatel, Vodafone, CATT, Orange, CMCC

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects   *TSGS#28(05)0311*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Advanced Alarming on Itf-N**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   S5-050289
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:

Advanced Alarming on Itf-N Unique_ID: 35053

Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

The current definitions of Information Object Classes (IOCs) and their notifications in case of alarms and changes related to them put a high burden on both, the IRP managers and IRP agents. In alarm situations the number of notifications to be sent across the Itf-N can be very high, but often the information/data contained in the notifications does not justify their transmission.
It is also possible that one error results in several alarm notifications and/or additional notifications indicating state or attribute value changes.

4   Objective

g) Define requirements and methods to improve the information content of alarms (e.g. to help identify the root cause of an alarm and the instances affected by it), thereby contributing to reduce the time-to-repair.
h) Define configurable rules for advanced alarm filtering and reducing the number of alarms by applying such advanced alarm filtering.
i) Define a sub-set of these requirements and methods which can be fulfilled also by low performance systems

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)

The result of this work will be a usage guide (TR).

Information produced within this TR may eventually become consolidated into particular IRP specifications (TSs).

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary #	Approved at plenary #	Comments
TR 32.8xy	Usage guide on Advanced Alarming on Itf-N	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary #	Comments	
32.111-n		Improving the alarm behaviour of Itf-N		3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split	
32.30n		Improving the Itf-N notification behaviour in alarm cases		3GPPSA#34 Dec 2006	Impact on these TSs depends on SA5's chosen functionality and function split	
Note: For n = 1 to 5						

11   Work item rapporteur(s)

Clemens SUERBAUM, Siemens (clemens.suerbaum@siemens.com)

12   Work item leadership

SA5

13   Supporting Companies

Siemens, Ericsson, Lucent, China Mobile, Huawei, Motorola

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#28(05)0312*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Management of Legacy Equipment
Document for:	Approval
Agenda Item:	7.5.3

3GPP TSG-SA5 (Telecom Management) S5-050290
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Management of Legacy Equipment Unique_ID: 35054
Acronym: OAM7-NIM

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3 Justification

The NRM IRPs of a certain 3GPP release are based on the network architecture that is specified in 3GPP SA2's TS 23.002 of the same release. Currently it is not possible to model within an NRM IRP of a certain release also equipment of an earlier release.

For this reason an IRPManager can currently manage only equipment of a single 3GPP release (that is modelled by an NRM IRP of the same release). This is a serious limitation because normally a network is composed of NEs where each NE may be compliant to a different 3GPP Release.

4 Objective

To remove the above identified limitation and to allow an IRPManager to manage equipment that is compliant to multiple 3GPP Releases.

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)

Depending on the agreed solution a new IRP may be created or existing IRPs may be modified.

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary #	Approved at plenary #	Comments
TS 32.xxx	Management of Legacy Equipment	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	Necessity for a new TS depends on SA5's chosen functionality and function split
Affected existing specifications						
Spec No.	CR	Subject	Approved at plenary #	Comments		
32.62n		Impact on these TSs depends on SA5's chosen functionality and function split	3GPPSA#34 Dec 2006	Configuration Management (CM); Generic network resources IRP		
32.63n		idem	3GPPSA#34 Dec 2006	CM Core network resources IRP		
32.64n		idem	3GPPSA#34 Dec 2006	CM UTRAN network resources IRP		
32.65n		idem	3GPPSA#34 Dec 2006	CM GERAN network resources IRP		
32.71n		idem	3GPPSA#34 Dec 2006	CM Transport Network NRM IRP		
32.74n		idem	3GPPSA#34 Dec 2006	CM Signalling Transport Network interface NRM IRP		
32.69n		idem	3GPPSA#34 Dec 2006	Inventory Management (IM) network resources IRP		
Note: For n = 1 to 5						

11   Work item rapporteur(s)
Olaf POLLAKOWSKI, Siemens (olaf.pollakowski@siemens.com)

12   Work item leadership
SA5

13   Supporting Companies
China Mobile, Ericsson, Motorola, Siemens, Nortel

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects   *TSGS#28(05)0313*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Rules for Vendor Specific Extensions**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   S5-050291
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<u>Work Item Description</u>

Title:
Rules for Vendor Specific Extensions Unique_ID: 35055
Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

3GPP does allow for numerous vendor specific extensions to the 3GPP defined NRM IRPs. These include new vendor specific object classes, sub-classing and the use of vendor specific data containers. However, numerous aspects related to vendor specific extensions are not yet specified. This results in poor functionality related to the vendor specific extensions and poor interoperability.

4   Objective

The objective of this Work Item is to:

- specify recommendations which vendor specific extension mechanisms should be used preferably for which vendor extension types
- provide clarifications regarding the usage of the extension mechanisms. These include:

  o naming rules for vendor specific extensions
  o filtering (syntax and semantics) on vendor specific extensions
  o support of notifications on vendor specific extensions
  o mechanisms allowing to access one parameter or a subset of all vendor specific parameters
  o mechanisms allowing optimized reporting of value changes of one parameter or a subset of all vendor specific parameters

- align the allowed and possible extension mechanisms across the IS, CORBA, CMIP and XML specifications.

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)

Depending on the agreed solution one or more existing IRPs will be changed.

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
32.62n		Impact on these TSs depends on SA5's chosen functionality and function split	3GPPSA#34 Dec 2006	Configuration Management (CM); Generic network resources IRP
Note:	For n = 1 to 5			

11   Work item rapporteur(s)
Olaf POLLAKOWSKI, Siemens (olaf.pollakowski@siemens.com)
12   Work item leadership
SA5
13   Supporting Companies
Ericsson, Lucent, Motorola, Siemens

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#28(05)0314*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**	
Title:	**WID WT CN CS Bearer Transport Network (BTN) relative NRM**	
Document for:	**Approval**	
Agenda Item:	**7.5.3**	

3GPP TSG-SA5 (Telecom Management) S5-050292
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

Work Item Description

Title:
CN CS Bearer Transport Network (BTN) relative Resource Model   Unique_ID: 35056
Acronym: OAM7-NIM

1   3GPP Work Area

	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

Circuit is a logic link between two exchange network nodes which bear the user data such as voice, e.g. 64K slot of one 2M E1. Traffic route represents the route via which bearer flow to a specific destination.
To learn the detailed circuit connection relationship between network nodes and traffic route configuration status of the CN CS, bearer transport network related NRM need to be defined, such as circuit, traffic route, etc.

4   Objective

To define Bearer Transport Network (BTN) related NRM which are applicable to CN CS of UMTS.

To specify Bearer Transport Network (BTN) relative NRM definition of the CN CS:

- Specify BTN relative NRM management requirements
- Specify BTN Network Resource Models (NRMs)
- Specify CORBA Solution Set (SS)
- Specify CMIP Solution Set (SS)

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	
No	X	X	X		X
Don't know					

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

New specifications						
Spec No.	Title	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments
TS 32.xx1	BTN relative NRM management requirements			09/2005	3GPPSA#34 Dec 2006	
TS 32.xx2	Specify BTN Network Resource Models (NRMs)			09/2005	3GPPSA#34 Dec 2006	
TS 32.xx3	CORBA Solution Set (SS)			09/2005	3GPPSA#34 Dec 2006	
TS 32.xx4	CMIP Solution Set (SS)			09/2005	3GPPSA#34 Dec 2006	

Affected existing specifications				
Spec No.	CR	Subject	CR Approved	Comments

11 Work item raporteurs
Li Yewen (liyewen@chinamobile.com)
12 Work item leadership
SA5
13 Supporting Companies
China Mobile, 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)

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects   *TSGS#29(05)0608*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Study of Element Operations Systems Function definition (OAM7-NIM-EOSF)
Document for:	Approval
Agenda Item:	8.13

3GPP TSG-SA5 (Telecom Management)   S5-056573
Meeting #43, Bordeaux, France, 28 Aug. - 2 Sep. 2005

Work Item Description

Title:
Study of Element Operations Systems Function (EOSF) definition Unique_ID: 35065
Acronym: OAM7-NIM-EOSF

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

Network Infrastructure Management (BB: OAM7-NIM)

Acronym	Unique_ID
OAM7-NIM	35042

3   Justification

In the Logical Layered Architecture (LLA) of TMN, Network OSFs (N-OSF) are concerned with the management function on network level, and Element OSFs (E-OSF) with the management function on network element level. These two logical layers respectively play the role of network management function.

The Element Management System developed by vendors may mainly cover network management functions described in E-OSF and or N-OSF.

3GPP TS 32.101 also state that the Element Manager (EM) has two aspects of function, element management and sub-network management. However, 3GPP 32.xxx series does not provide a clear definition for Element OSF which can help operators and vendors clarify what are required and can be used as a guide when they deploy network.

It is necessary to state that EM provided by vendor is an entity, which implement E-OSF logical functions and may or may not implement N-OSF functions and even more. The Network Management System (NMS) may or may not direct access to NE and implement part of E-OSF. This scenario (i.e. whether NMS implement or not any E-OSF and whether EM implement any N-OSF or not) is outside the 3GPP standardization scope. The mapping rule between physical entities (e.g. EMS, NMS) and logical function entities (e.g. E-OSF and N-OSF) is outside of this WID scope.

The definition of E-OSF specification has to be based on the network operating and maintaining experience and consider the potential application environment of UMTS network. Up to now the existing specification from 3GPP may not enough as a guideline for the products. More E-OSF detail function definition is necessary to be defined in a TR as a reference for operator and vendor.

4   Objective

The intention of this TR is to identify and define what will be needed in the E-OSFs. The intention of this TR is not to define new requirements for the eventual standardization of new Interface IRP and/or NRM IRP and/or System Context.

This WI proposes to define the E-OSFs including the following main aspects.
  -Define functional scope of Element OSF (E-OSF)
  -Define functional requirement of Elements OSF (E-OSF)
  -Define the usage (use case) of the result of this WID.

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	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments
TR 32.8xy	Element Operations Systems Function (E-OSF) definition			~~3GPPSA#31 13 - 15 Mar 2006~~ 3GPPSA#33 Sep 2006	3GPPSA#34 4 - 6 Dec 2006	

Reason for re-scheduling: No feedback from Rapporteur

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11   Work item raporteurs

Liyewen@chinamobile.com

12   Work item leadership

SA5

13   Supporting Companies

China Mobile, CATT, Huawei, TeliaSonera, ZTE

14   Classification of the WI (if known)

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

14c   The WI is a **Work Task**: parent **Building Block**

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#29(05)0609*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Study of Itf-N Implementation Conformance Statement template (OAM7-NIM-ICS)
Document for:	Approval
Agenda Item:	8.13

3GPP TSG-SA5 (Telecom Management) S5-056576
Meeting #43, Bordeaux, France, 28 Aug.- 2 Sep 2005

Work Item Description

Title:
Study of Interface-N Implementation Conformance Statement (ICS) template <mark>Unique_ID: 35067</mark>

<mark>Acronym: OAM7-NIM-ICS</mark>

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3   Justification

Itf-N   Interface-N (Network-NM Interface)

3GPP publish xxxIRPs specifications for 3G network OAM&P. Vendors have implemented products compliance to different version 3GPP specifications. However, no 3GPP public Implementation Conformance Statement (ICS) specification is available when operator test vendor's Itf-N product.

This WT is proposed to define 3GPP public Implementation Conformance Statement specification template.
Due to the huge workload to define all the xxxIRPs ICS specifications (including interface xxxIRPs, NRMIRPs, measurements etc.), this study WT will produce ICS template and chose special version xxxIRPs as an ICS example.

4   Objective

To study of Network Management (NM) Itf-N Implementation Conformance Statement (ICS) template.

Based on the outcome of this study the following specifications could be produced:

- Telecommunication management; Itf-N testing; Implementation conformance testing template (32.16x).

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

3GPP

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
32.8xy	Study of Itf-N Implementation Conformance Statement (ICS) template	SA5		~~3GPPSA#31 13 - 15 Mar 2006~~3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	

Reason for re-scheduling: No feedback from Rapporteur

> **Formatted:** Highlight

11   Work item rapporteur(s)
China Mobile (liyewen@chinamobile.com)

12   Work item leadership
SA5

13   Supporting Companies
China Mobile, CATT, Huawei, Motorola,Nokia, Siemens, ZTE

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#29(05)0610*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Study of IRP Solution Sets in SOAP/HTTP (OAM7-NIM-SOAP)
Document for:	Approval
Agenda Item:	8.13

3GPP TSG-SA5 (Telecom Management) S5-050430
Meeting #43, Bordeaux, FRANCE, 29 Aug - 2 Sep 2005

Work Item Description

Title:
Study of SOAP/HTTP Integration Reference Point (IRP) Solution Sets Unique_ID: 35066
Acronym: OAM7-NIM-SOAP

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3 Justification

IRP **Integration Reference Point**

IRPs need to be extended with the introduction of SOAP/HTTP Solution Sets in order to respond to the growing market and industry demand for such lightweight solutions over the Itf-N.

4 Objective

Study the need to specify a new Solution Set for all Interface, Network Resource Model and Data Definition IRPs based on SOAP/HTTP technology, as additional choice to CORBA and CMIP Solution Sets.

Following survey work need to be considered:
(1) Use Case: Why do we need a new interface protocol. Use cases have to be provided.
(2) Standardizing Status: A survey of the protocol history and future development should be reported. Future proof ness / permanence of the new solution set is also needed.
(3) Protocol Supporting Status: How many software vendors (ISV) (e.g. IONA, IBM…) support that interface protocol. How many existing protocol products exist in the market.
(4) Interface Product Performance Test: A test report is necessary to show the performance.
(5) Economic Status: The normal existing product price should be investigated

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			
Don't know					X

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

New specifications						
Spec No.	Title	Prime WG	2ndary WG(s)	Presented for info. at plenary #	Approved at plenary #	Com-ments
TR 32.8xy	Study of SOAP/HTTP IRP Solution Sets			~~3GPPSA#31 13 - 15 Mar 2006~~3GPPSA#32 5 - 7 Jun 2006	3GPPSA#34 Dec 2006	

Reason for re-scheduling:　technical complexity of the study, need to ensure all SA5 companies have understood and support the strategical choice of a new SS technology.

11 **Work item rapporteur(s)**

Christian Toche [toche@nortel.com]

12 **Work item leadership**

SA5

13 **Supporting Companies**

Nortel, China Mobile, Ericsson, Huawei, Motorola, Nokia, Siemens, TeliaSonera, ZTE.

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

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

14c　The WI is a Work Task: parent Building Block

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#29(05)0611*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Study of Integration Reference Point (IRP) Information Model (OAM7-NIM-IM)
Document for:	Approval
Agenda Item:	8.13

3GPP TSG-SA5 (Telecom Management) **S5-058857**
Meeting #43, Bordeaux, FRANCE, 29 Aug - 2 Sep 2005

Work Item Description

Title:
Study of Integration Reference Point (IRP) Information Model   Unique_ID: 35068

Acronym: OAM7-NIM-IM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

Acronym	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM)

Acronym	Unique_ID
OAM7-NIM	35042

3   Justification

Currently there is no standard interface specified for how the NMC may access details of NEM Information Model. Currently this type of information is just specified in Configuration Management (CM) Integration Reference Point (IRP) Network Resource Models (NRMs) TS specification for standard NRMs. Details of vendor specific extensions are not included. The same applies to PM NRMs

Typically an NMC will be required to interface to several NEMs from different vendors, each of which may support variants and vendor specific extensions to the standard NRMs for CM and PM. To simplify NM operations, it would be advantageous if a standard interface is specified for an NEM to be able to access an NEM's Information Model (IM) realization.

See supporting white paper contribution S5-050258 for further background, supporting arguments and potential scope.

The study will involve the following activities:

Study of Requirements
Study of Use Cases
Study of Business Case - Benefits

4   Objective

For R7 and within the scope of WID, the object is to just initially complete a feasibility study for potential specifying an Information Model IRP to enable an IRPManager to be able to read an IRPAgent's Vendor Specific information model view over Itf-N.

It is envisaged the information model will provide the type of information currently specified in IRP and NRMs IS level specifications, e.g. NRM IOCs, containment, naming, attributes, attribute valid values, RO/RW access support, notifications supported etc.

The scope of the information model should cover 3GPP generic and vendor specific objects/data.

The Info Model IRP service needs to be able to cover all IRP views.

Completing the feasibility study and generating a Technical Report to document the findings and recommendation is current defined limit of this WID. After this work has been or completed and a conclusion reached, depending on the findings, then further work may be initiated further progress the specification of an IM IRP with associated TS being completed.

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	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments
TR 32.8yz	Information Model IRP Feasibility Study	SA5		~~3GPPSA#31 13 - 15 Mar 2006~~3GPPSA#32 5 - 7 Jun 2006	3GPPSA#34 Dec 2006	

Reason for re-scheduling: No feedback from Rapporteur

11   Work item rapporteurs
Trevor PIRT (Motorola)
12   Work item leadership
SA5
13   Supporting Companies
Motorola, Nortel, Lucent, Vodafone China Mobile

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

Acronym	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM7-NIM7)

Acronym	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects   *TSGS#29(05)0630*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Backward and Forward Compatibility of IRP systems (OAM7-NIM-BFC)
Document for:	Approval
Agenda Item:	11.27

3GPP TSG-SA5 (Telecom Management)   **S5-056447**
Meeting #42bis, Sophia Antipolis, FRANCE, 27 Jun - 1 Jul 2005

Work Item Description

Title:
Backward and Forward Compatibility of IRP systems   Unique_ID: 35064

Acronym: OAM7-NIM-BFC

This work item standardizes the rules that IRP authors can use to evolve existing IRP specifications such that implementations of the new IRP specifications can result in systems that are backward compatible to systems that have implemented the existing specification.

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items
- Network Infrastructure Management (BB: OAM7-NIM)

Acronym	Unique_ID
OAM7-NIM	35042

3   Justification
Given that
- *3GPP is publishing the Interface, NRM and Data Definition IRP specifications rapidly, i.e., multiple versions per release period; and will continue to do so in the future, and*
- *Vendors are making products that support Vendor Specific Extension (VSE) that are based on 3GPP IRP specifications; and*
- Operators are planning to use 3GPP IRP to manage large multi-vendor networks; and
- Operators may want to use a managing system that is compliant to vendor-A VSE (that is based on 3GPP IRP specifications) to manage multi-vendor managed systems that may not be supporting vendor-A VSE but are supporting vendor-B VSE (that is based on 3GPP IRP specifications); and
- It requires less coordination and less service disruption if managing systems and managed systems upgrades, in a large network, be done in a gradual basis (e.g., upgrade western region's Alarm IRP Agents first, then upgrade the eastern region's Alarm IRP Agents, then central Alarm IRP Managers in 3 stages); and
- It is inconceivable that, in a large multi-vendor network, all IRPManagers (may be from various vendors) and IRPAgents (may be from various vendors as well) must use the same 3GPP specification release at all time;

There is a need for 3GPP to specify rules such that, if and when used by IRP standard authors to develop a new release, the implementations supporting the resultant new release can interoperate with implementations supporting the "older" release.
Such rules are called backward compatibility rules. The prime focus or target of this WID is to standardize these rules.
There is also a need for 3GPP to specify rules such that when used by IRP standard authors to specify a standard of a release, the implementation supporting the resultant release can have a better chance of interoperating with implementations supporting future release. Such rules are called forward compatibility rules. Forward compatibility is harder to achieve than backward compatibility, since, in the backward case, the 'old' system behaviour is known whereas a forward compatible system needs to cope gracefully with unknown future features.
The standardization of these forward compatibility rules is the secondary focus or target of this WID.
There are industrial best practices for defining systems that are backward and/or forward compatible. We intend to draw on those experiences.

The work on backward compatibility rules has been performed in Release 6 under the SA5 Work Task "Backward Compatibility". The Technical Report 32.805 captures the result of that work.

This WID is tasked to:
- Define the rules for Backward Compatibility (primary focus of this WID)
- Define the Requirements and rules for Forward Compatibility (secondary focus of this WID).

4 Objective

To define rules for writing Information Service and appropriate Solution Sets for implementations of systems satisfying the Requirements documented in reference [1].

To study and define the requirements for forward compatibility. To define rules for writing Information Service and appropriate Solution Sets for implementation of systems satisfying that Forward Compatibility requirements.

Note that the intention of having the rules is to give guidelines on what needs to be done to have compatible specifications. The intention is not to have new functionality rejected because it is not forward or backward compatible, nor that a fault correction has to be forward or backward compatible at any cost. SA5 have to agree, on case by case, if a compatible correction is beneficial/needed or not.

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	
TS 32.15X	Compatibility Rules for CORBA Solution Set	SA5		3GPPSA#33 25 - 27 Sep 2006	3GPPSA#34 Dec 2006		
Affected existing specifications							
Spec No.	CR	Subject			Approved at plenary#	Comments	
TR 32.805		Add forward compatibility requirements and context.			3GPPSA#34 Dec 2006		

11 Work item rapporteur(s)
Ericsson (Robert PETERSEN)

12 Work item leadership
SA5

13 Supporting Companies
Ericsson, Vodafone, Lucent, Nokia, TeliaSonera.

14 Classification of the WI (if known)

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

14c The WI is a Work Task: parent Building Block

Network Infrastructure Management (BB: OAM7-NIM)

Acronym	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#30(05)0728*
Meeting #30, 05 - 07 December 2005, St. Julian, Malta

Source:	SA5 (Telecom Management)
Title:	WID WT HSDPA performance measurements
Document for:	Approval
Agenda Item:	10.35 (OAMP7) - OAM&P Rel-7

3GPP TSG-SA5 (Telecom Management) S5-059145
Meeting #44, Shenzhen, CHINA, 7 - 11 Nov, 2005

Work Item Description

Title:
HSDPA performance measurements Unique_ID: 35073

Acronym: OAM7-PM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

-

3   Justification

In WCDMA 3GPP release 5, a new transport channel is introduced, the high-speed downlink shared channel (HS-DSCH), which provides enhanced support for interactive, background, and to some extent, streaming radio access bearer (RAB) services in the downlink. HS-DSCH transmission facilitates several new features. But to support them with minimum impact on the existing radio interface protocol architecture, a new MAC sub-layer, MAC-hs, has been introduced for HS-DSCH transmission. So that the UTRAN performance measurements from 3GPP TS 32.403 cannot satisfy the requirement of HSDPA performance measurements, therefore the HSDPA O&M requirements should be specified.
This WT is addressing the need and solutions for HSDPA with only FDD mode performance measurements.

4   Objective

-      Specify HSDPA with only FDD mode performance measurements

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	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments

Affected existing specifications				
Spec No.	CR	Subject	CR Approved	Comments
32.403			SA#34 Dec 2006	Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM

11   Work item raporteurs

Li Yewen (liyewen@chinamobile.com), Liangshuanchun@bcdi.com.cn

12   Work item leadership

SA5

13   Supporting Companies

China Mobile, Siemens, CATT, Ericsson, ZTE, Huawei, Motorola, Nortel, Nokia

14   Classification of the WI (if known)

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

14c   The WI is a **Work Task**: parent **Building Block**

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects *TSGS#30(05)0731*
Meeting #30, 05 - 07 December 2005, St. Julian, Malta

Source:	SA5 (Telecom Management)
Title:	WID WT Repeater NRM Definition
Document for:	Approval
Agenda Item:	10.35 (OAMP7) - OAM&P Rel-7

3GPP TSG-SA5 (Telecom Management) **S5-059146**
Meeting #44, Shenzhen, CHINA, 7 - 11 Nov, 2005

<u>**Work Item Description**</u>

Title:
Repeater Network Resource Model (NRM) Definition Unique_ID: 35071

Acronym: OAM7-NIM

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

-

3 Justification

Repeater is the equipment which can be used in UTRAN network to improve the network coverage. Most of time, repeater vendor implements repeater OMC to manage the repeaters and carry necessary OAM&P functions defined in TMN. From the TMN view point, the repeater OMC is a kind of element management system which should be managed by Network Management System (NMS) through itf-N. Currently, existing 3GPP 32.xxx series specification lack of repeater related NRM specifications which is necessary by NMS. The tower mounted amplifier/booster (TMA/B) is not in the scope of this WID.
This WT is addressing the need and solutions for Repeater NRM definition in UMTS.

4 Objective

- Specify Requirements
- Specify Information Services (IS)
- Specify CORBA Solution Set (SS)
- Specify CMIP Solution Set (SS)

CRs to existing specifications or new TSs will be produced as appropriate.

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	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments
TBD		SA5			SA#34 Dec 2006	CRs to existing specifications or new TSs will be produced as appropriate.

Affected existing specifications				
Spec No.	CR	Subject	CR Approved	Comments
32.641			SA#34 Dec 2006	CRs to existing specifications or new TSs will be produced as appropriate. Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP); Requirements
32.642			SA#34 Dec 2006	Configuration Management (CM); UTRAN network resources IRP: Network Resource Model (NRM)
32.643			SA#34 Dec 2006	Configuration Management (CM); UTRAN network resources IRP: CORBA Solution Set
32.644			SA#34 Dec 2006	Configuration Management (CM); UTRAN network resources IRP: CMIP Solution Set
32.645			SA#34 Dec 2006	Configuration Management (CM); UTRAN network resources IRP: Bulk CM XML file format definition

11 Work item raporteurs

Li Yewen (liyewen@chinamobile.com), Liangshuanchun@bcdi.com.cn

12 Work item leadership

SA5

13 Supporting Companies

China Mobile, CATT, Huawei, ZTE

14 Classification of the WI (if known)

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

14c The WI is a **Work Task**: parent **Building Block**

Network Infrastructure Management (BB: OAM-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects   *TSGS#30(05)0733*
Meeting #30, 05 - 07 December 2005, St. Julian, Malta

Source:	SA5 (Telecom Management)
Title:	WID WT UTRAN radio channel power monitoring
Document for:	Approval
Agenda Item:	10.35 (OAMP7) - OAM&P Rel-7

3GPP TSG-SA5 (Telecom Management)   **S5-059115**
Meeting #44, Shenzhen, CHINA, 7 – 11 November 2005

<u>**Work Item Description**</u>

Title:
UTRAN radio channel power monitoring   Unique_ID: 35072

Acronym: OAM7-NIM

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

-

3   Justification
3.1   Requirements

Power is a very important and limited resource in the WCDMA UTRAN network. High or low power value of each kind of channel has different impact on the network. So effective Monitoring of the radio channel power is very helpful for operators' daily OA&M work and network estimation.
In UTRAN, there are 3 different levels of radio channels, i.e. logical channel, transport channel and physical channel. The power can be assigned on transport channel or physical channel. Operators require grasping the configured and dynamic value of those channels' power. For those which are not related to power control, operator only needs to grasp the configured value of channel power. While for the others, it is necessary to measure the dynamic value of channel power.

3.2   Principle of radio channel power monitoring

The transport channels and physical channels have mapping relations. The following is mapping of transport channels onto physical channels.

Transport Channels	**Physical Channels**

DCH ————————— Dedicated Physical Data Channel (DPDCH)

Dedicated Physical Control Channel (DPCCH)

RACH————————— Physical Random Access Channel (PRACH)

CPCH ————————— Physical Common Packet Channel (PCPCH)

Common Pilot Channel (CPICH)

BCH ————————— Primary Common Control Physical Channel (P-CCPCH)

FACH ————————— Secondary Common Control Physical Channel (S-CCPCH)

PCH ——————

Synchronisation Channel (SCH)

DSCH ————————— Physical Downlink Shared Channel (PDSCH)

Acquisition Indicator Channel (AICH)

Access Preamble Acquisition Indicator Channel (AP-AICH)

Paging Indicator Channel (PICH)

CPCH Status Indicator Channel (CSICH)

Collision-Detection/Channel-Assignment Indicator

Channel (CD/CA-ICH)

25.211

From the figure above, the mapping from transport channel to physical channel is mostly one to one. So, in most cases, we just need to monitor the physical channels.

It is proposed to monitor the power of the following channels:

- Transport channel: FACH、PCH
- Uplink physical channel: DPCH (DPDCH/DPCCH)、PRACH
- Downlink physical channel: DPCH (DPDCH/DPCCH)、CPICH、P-CCPCH、S-CCPCH、SCH、AICH、PICH

In the above channel list, DPCH、PRACH、PDSCH are involved in power control. So, we should record the maximum and mean value of power level for those channels as performance measurements. For other channels, only the configured value will be retrieved.

The following channel power parameters are already present in TS 32.642:
- primaryCpichPower(1)
- maximumTransmissionPower(2)
- bchPower(3)
- primaryCcpchPower(4)
- dlpchPower(5)
- schPower(6)

The following parameters should be added:
- fachPower (7)
- dpchPower(8)
- prachPower (9)
- sccpchPower(10)
- pdschPower(11)
- pichPower(12)
- aichPower(13)

(8)、(9)、(11) are channels which are involved in power control.

4 Objective

Add (7) (10) (12) (13) to TS 32.642

Add (8) (9) (11) to TS 32.403

Update UTRAN Network Resource Model (NRM) Requirements (if needed)

Update UTRAN Network Resource Model (NRM)

Update UTRAN NRM CORBA Solution Set (SS)

Update UTRAN NRM CMIP Solution Set (SS)

Update UTRAN NRM XML format definition

Add UTRAN channel Measurements

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		
No	X	X		×	X
Don't know					

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

New specifications						
Spec No.	Title	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments

Affected existing specifications				
Spec No.	CR	Subject	CR Approved	Comments
32.641			SA#34 Dec 2006	UTRAN network resources Integration Reference Point (IRP): Requirements
32.642			SA#34 Dec 2006	UTRAN network resources IRP: Network Resource Model (NRM)
32.643			SA#34 Dec 2006	UTRAN network resources IRP: CORBA Solution Set
32.644			SA#34 Dec 2006	UTRAN network resources IRP: CMIP Solution Set
32.645			SA#34 Dec 2006	UTRAN network resources IRP: Bulk CM XML file format definition
32.403			SA#34 Dec 2006	Performance Measurements - UMTS and combined UMTS/GSM

11　　　Work item rapporteurs
　　　　Lan Wang (wanglan1@bj.chinamobile.com)

12　　　Work item leadership
　　　　SA5

13　　　Supporting Companies
　　　　China Mobile, CATT, Huawei, ZTE

14　　　Classification of the WI (if known)

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

14c　　The WI is a **Work Task**: parent **Building Block**

　　　　Network Infrastructure Management (BB: OAM-NIM)

WI	Unique_ID
OAM7-NIM	35042

Technical Specification Group Services and System Aspects *TSGS#31(06)0095*

Meeting #31, 13 - 16 Mar 2006, Sanya (Hainan), CHINA

Source:	SA5 (Telecom Management)
Title:	R7 WID Study on SA5 MTOSI XML Harmonization (OAM7-NIM)
Document for:	Approval
Agenda Item:	10.35

3GPP TSG-SA5 (Telecom Management) S5-060030r1

Meeting #45, Sophia Antipolis, France, 13 – 17 February 2006

Work Item Description

Title:

NEW Study on SA5 MTOSI XML Harmonization Unique ID: 35074

Acronym: OAM7-NIM-XML

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

3 Justification

Industry-wide there is a need for harmonization of XML specification methodologies, best practices and guidelines.

4 Objective

Study MTOSI solutions with respect to XML specification methodologies, best practices and guidelines.

This will include sharing of information, discussion of the shared information, and determination of harmonization items with respect to the 3GPP and TMF 608 XML specifications. This phase also includes possible updates to the MTOSI XML framework based on the discussion between 3GPP SA5 and the TM Forum MTOSI team as well as possible updates to the 3GPP SA5 XML specifications.

Based on current understanding, the following tasks are envisioned:

- The MTOSI team is to share information concerning XML framework and transport. All of MTOSI Release 1 documents shall be shared with 3GPP SA5. However, the following documents are of particular interest with regards to the topic of an XML framework:
  - o TMF854, MTOSI XML Solution Set (the XML itself)
  - o SD2-2, MTOSI XML Implementation User Guide
  - o SD2-5, MTOSI Communication Styles (describes various message exchange patterns)
  - o SD2-6, MTOSI Versioning and Extensibility (methodology and rules for extending MTOSI)
  - o SD2-9, Using JMS as an MTOSI Transport (describes XML binding to JMS and requirements for using JMS)

- The MTOSI team is also willing to review any information that 3GPP SA5 may suggest on this topic. After the relevant information is shared and everyone has had sufficient time to review the material, one or more conference calls should be arranged for further discussion. Assuming 3GPP decides to go forward with XML, the desired goal of this collaboration is for 3GPP SA5 and the TM Forum mTOP to agree on the same XML framework.

- Also, 3GPP shall also share (with the TM Forum) the work that they have already done concerning the usage and transport of XML.

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			
Don't know					X

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

New specifications						
Spec No.	Title	Prime WG	2ndary WG(s)	Presented for info. at plenary#	Approved at plenary#	Comments
TR 32.8xy	Recommendations for XML Improvements	SA5		3GPP SA#32 5 - 7 Jun 2006	3GPP SA#33 25 - 27 Sep 2006	

11 Work item rapporteur(s)
Christian TOCHE [toche@nortel.com]

12 Work item leadership
SA5

13 Supporting Companies
Lucent, Motorola, Nokia, Nortel, Siemens

14 Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block

Network Infrastructure Management (BB: OAM7-NIM)

WI	Unique_ID
OAM7-NIM	35042

Building Block : Performance Management (OAM7-PM) <mark>Unique_ID: 35043</mark>

Technical Specification Group Services and System Aspects	*TSGS#28(05)0315*

Meeting #28, Quebec, CANADA, 06-08 June 2005

Source :	**SA5 (Telecom Management)**
Title :	**WID WT Performance measurements definition for CN CS**
Document for:	**Approval**
Agenda Item :	**7.5.3**

3GPP TSG-SA5 (Telecom Management)	S5-050293

Meeting #42, Montreal, CANADA, 09 - 13 May 2005

Work Item Description

Title:

Performance measurements definition for CN CS   <mark>Unique_ID: 35057</mark>

<mark>Acronym: OAM7-PM</mark>

1   3GPP Work Area

	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

3   Justification

Performance measurement data is important for operator to analyze network performance. Currently, Rel-6 and earlier versions of 32.403 define the necessary performance measurements. (The latest) TS 32403-650 covers measurements data related to RNC, SGSN, GGSN and MMS. The performance measurement data related to CN, especially CN CS (IP-based) are absent. If operators directly deploy previous 3GPP Releases CN CS, no 3GPP defined performance measurements can be used.

This WT proposes to define for previous 3GPP Releases CN CS (IP-based) performance measurements data definition. This WT should also address how to define measurements that may apply to previously released equipments e.g allow to possibly define different trigger for different 3GPP release CN CS measurements.

4   Objective

Define performance measurements, which apply to previous 3GPP Releases CN CS (IP-based).

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	
No	X	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.xyz	Performance Measurements - UMTS and combined UMTS/GSM-CN CS	SA5		3GPPSA#33 Sep 2006	3GPPSA#34 Dec 2006	
Affected existing specifications					
Spec No.	CR		Subject	Approved at plenary#	Comments

11   Work item rapporteur(s)
          LI Yewen (liyewen@chinamobile.com)

12   Work item leadership
          SA5

13   Supporting Companies
          China Mobile, CATT, Huawei, ZTE, Nortel, Motorola, Vodafone

14   Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects *TSGS#28(05)0316*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Enhancement UTRAN performance measurements definition**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management) S5-050294
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

Work Item Description

Title:
Enhancement UTRAN performance measurements definition Unique_ID: 35058

Acronym: OAM7-PM

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

3 Justification

Performance measurement data is important for operator to analyze network performance. Currently, Rel-6 and earlier versions of 32.403 define the necessary performance measurement data. (The latest) TS 32.403-650 covers measurements data related to RNC, SGSN, GGSN and MMS. For the CN PS, operators can use performance measurement data related to UTRAN defined in 32.403-650.

This WT proposes to enhance UTRAN performance measurements in the existing 32.403 and only produce CRs to existing specification.

4 Objective

Define more performance measurements, which apply to UTRAN of UMTS.

For the UTRAN part, the Release 6 3GPP TS 32.403 include measurement definitions for RNC RAB management, signalling connection, RRC connection, RLC connection, soft handover, radio link addition, hard handover, relocation, circuit switched inter-RAT handover, and Iu connection release.

For a good monitoring of the UTRAN, it is necessary to add new performance measurements and some examples are listed below:

- Inter-frequency and intra-frequency hard handovers for use in network optimization (currently only intra-cell, intra-NodeB, inter-NodeB, intra-RNC and inter-RNC hard handovers measurements)
- Inter-system HO measurements (UMTS->GSM, GSM->UMTS, UMTS ->GPRS, GPRS-> UMTS) to show the CS and PS domain hard handover stability and reliability
- RAB drop rate per service type to analyze quality of service
- IuCS, IuPS, Iur and Iub interface throughput measurements needed to reflect the interface load
- RNC resource usage measurements to reflect the equipment load

- Cell soft handover scale radio link measurements for network planning and optimization
- Cell paging measurements to reflect the paging channel resource usage
- RAB establishment measurements per cell to analyze service quality
- Cell frequency usage measurements to analyze service quality
- Cell code resource usage for use in network planning and optimization

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		
No	X	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			3GPP SA#34 Dec 2006	Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM

Meetin	Doc-1st-Level	Spec	CR	R	Phas e	Subject	Cat	Ver-Cur	Ver-New	Doc-2nd-Level	Workitem
SP-29	SP-050585	32.43	000	1	Rel-7	Enhance PM XML file format with measInfo	C	6.1.0	7.0.0	S5-058827	OAM7-PM
SP-29	SP-050585	32.43	000	-	Rel-7	Enhance PM XML file format with measInfo	C	6.0.0	7.0.0	S5-058828	OAM7-PM
SP-29	SP-050585	32.43	000	-	Rel-7	Enhance PM ASN.1 file with measInfo	C	6.0.0	7.0.0	S5-058829	OAM7-PM
SP-30	SP-050704	32.40	008	-	Rel-7	Add AAA authentication measurements into 3GPP specifications.	B	7.0.0	7.1.0	S5-059129	OAM-PM
SP-30	SP-050704	32.40	008	-	Rel-7	Add DNS query measurements into 3GPP specifications.	B	7.0.0	7.1.0	S5-059128	OAM-PM
SP-30	SP-050704	32.40	008	-	Rel-7	Add periodic RA update measurements into 3GPP specifications.	B	7.0.0	7.1.0	S5-059130	OAM-PM
SP-30	SP-050704	32.40 3	008 5	-	Rel-7	Add failed RA update per cause measurements into 3GPP specifications.	B	7.0.0	7.1.0	S5-059131	OAM-PM
SP-30	SP-050727	32.40	008	-	Rel-7	Add UTRAN cell carrier RF loading PM measurements	B	7.0.0	7.1.0	S5-059138	OAM7-PM
SP-30	SP-050727	32.40	008	-	Rel-7	Add measurements about the number of OVSF codes used	B	7.0.0	7.1.0	S5-059140	OAM7-PM

11 Work item rapporteur(s)
Li Yewen (liyewen@chinamobile.com)

12 Work item leadership
SA5

13 Supporting Companies
China Mobile, CATT, Huawei, ZTE

14 Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects   *TSGS#28(05)0317*
Meeting #28, Quebec, CANADA, 06-08 June 2005

Source:	**SA5 (Telecom Management)**
Title:	**WID WT Add TDD specific counters in Performance measurement**
Document for:	**Approval**
Agenda Item:	**7.5.3**

3GPP TSG-SA5 (Telecom Management)   S5-050295
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<div align="center">Work Item Description</div>

Title:
Add TDD specific counters in Performance measurement definitions   Unique_ID: 35059

Acronym: OAM7-PM

1   3GPP Work Area

X	Radio Access
	Core Network
X	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

3   Justification

In the latest TS32.403, all the counters are FDD specific or FDD/TDD specific.
Taking the different access technologies into account, there are some TDD specific counters which are not included in this TS.

It is therefore necessary to specify a comprehensive set of measurement types for the TDD network elements to deliver TDD network information across the UMTS system. From the TS consistence point of view this is also necessary.

As another benefit, the list of measurement types to be specified under this work item will also help the vendors and the TDD system operators or FDD/TDD combined system operators alike by providing guidance to decide what should be required from and implemented in, the 3G products.

4   Objective

To make the necessary additions to the standard measurement set for TDD system and combined FDD/TDD system.

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		Add TDD specific counters in Performance measurement definitions	3GPP SA#34 Dec 2006	Performance measurements - UMTS and combined UMTS/GSM

Meeting	Doc-1st-Level	Spec	CR	R	Phase	Subject	Cat	Ver-Curr	Ver-New	Doc-2nd-Level	Workitem
SP-29	SP-050454	32.40 3	007 8		Rel-7	Add UTRAN TDD Dynamic Channel Allocation (DCA) counters for Performance Measurement (PM)	B	6.8.0	7.0.0	S5-058740	OAM7-PM-TDD
SP-29	SP-050454	32.40	007	-	Rel-7	Add TDD code resource counters for PM	B	6.8.0	7.0.0	S5-058844	OAM7-PM-TDD
SP-30	SP-050727	32.40	008	-	Rel-7	Add TDD Radio Frequency Power counters for PM	B	7.0.0	7.1.0	S5-059123	OAM7-PM
SP-30	SP-050727	32.40	008	-	Rel-7	Correction for TDD Code Counters for PM	F	7.0.0	7.1.0	S5-059124	OAM7-PM

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11 Work item rapporteur(s)
WANG Xuelong, CATT (wangxuelong@datangmobile.cn)

12 Work item leadership
SA5

13 Supporting Companies
CATT, China Mobile, ZTE, Huawei, Nortel, Siemens, Orange

14 Classification of the WI (if known)

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

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects   *TSGS#28(05)0318*
Meeting #28, Quebec, CANADA, 06-08 June 2005

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)   S5-050296
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

Work Item Description

Title:
ATM bearer network Performance measurements   Unique_ID: 35060

Acronym: OAM7-PM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-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			3GPPSA#34 Dec 2006	**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)

14c The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects *TSGS#28(05)0319*
Meeting #28, Quebec, CANADA, 06-08 June 2005

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) **S5-050297**
Meeting #42, Montreal, CANADA, 09 - 13 May 2005

<div align="center">Work Item Description</div>

Title:
IP Network Performance Measurements definition Unique_ID: 35061

Acronym: OAM7-PM

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

WI	Unique_ID
OAM7	35041

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-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	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments

Affected existing specifications				
Spec No.	CR	Subject	CR Approved	Comments
32.403			3GPP SA#34 Dec 2006	Performance Measurements - UMTS and combined UMTS/GSM

11   Work item raporteurs
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)

14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects   *TSGS#29(05)0631*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT Performance measurements definition for IMS (OAM7-PM-IMS)
Document for:	Approval
Agenda Item:	11.27

3GPP TSG-SA5 (Telecom Management)   **S5-058825**
Meeting #43, Bordeaux, France, 28 Aug – 2 Sep 2005

Work Item Description

Title:
Performance measurements definition for IMS   Unique_ID: 35069

Acronym: OAM7-PM-IMS

1   3GPP Work Area

	Radio Access
X	Core Network
	Services

2   Linked work items

Performance Management (BB: OAM7-PM)

Acronym	Unique_ID
OAM7-PM	35043

3   Justification

Performance measurement data is important for operator to analyze network performance. Currently, Rel-6 and earlier version of 32.403 define performance measurements related to 3G network. The latest 32.403 covers measurements data related to RNC, SGSN, GGSN and MMS. The performance measurement data related to IMS are absent. If operator deploy IMS, no 3GPP defined performance measurements can be used.

This WT proposes to define for IMS performance measurements data definition.

4   Objective

Define performance measurements, which apply to IMS.

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	
No	X	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.xyz	Performance measurements – UMTS IMS	SA5		3GPPSA#32 5 - 7 Jun 2006	3GPPSA#34 4 - 6 Dec 2006	
Affected existing specification						
Spec No.	CR	Subject		Approved at plenary#		Comments

11 Work item rappoteur(s)

LI Yewen (liyewen@chinamobile.com)

12 Work item leadership

SA5

13 Supporting Companies

China Mobile, CATT, Ericsson, Lucent, Motorola, Nokia, ZTE Siemens, Nortel

14 Classification of the WI (if known)

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

14c The WI is a Work Task: parent Building Block

Performance Management (BB: OAM7-PM)

Acronym	Unique_ID
OAM7-PM	35043

Technical Specification Group Services and System Aspects *TSGS#30(05)0728*
Meeting #30, 05 - 07 December 2005, St. Julian, Malta

Source:	SA5 (Telecom Management)
Title:	WID WT HSDPA performance measurements
Document for:	Approval
Agenda Item:	10.35 (OAMP7) - OAM&P Rel-7

3GPP TSG-SA5 (Telecom Management) **S5-059145**
Meeting #44, Shenzhen, CHINA, 7 -11 Nov, 2005

Work Item Description

Title:
HSDPA performance measurements   Unique_ID: 35073

Acronym: OAM7-PM

1   3GPP Work Area

X	Radio Access
X	Core Network
	Services

2   Linked work items

Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

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3   Justification

In WCDMA 3GPP release 5, a new transport channel is introduced, the high-speed downlink shared channel (HS-DSCH), which provides enhanced support for interactive, background, and to some extent, streaming radio access bearer (RAB) services in the downlink. HS-DSCH transmission facilitates several new features. But to support them with minimum impact on the existing radio interface protocol architecture, a new MAC sub-layer, MAC-hs, has been introduced for HS-DSCH transmission. So that the UTRAN performance measurements from 3GPP TS 32.403 cannot satisfy the requirement of HSDPA performance measurements, therefore the HSDPA O&M requirements should be specified.
This WT is addressing the need and solutions for HSDPA with only FDD mode performance measurements.

4   Objective

- Specify HSDPA with only FDD mode performance measurements

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	1st resp. WG	2nd resp. WG(s)	Presented for Information	Presented for Approval	Comments

Affected existing specifications				
Spec No.	CR	Subject	CR Approved	Comments
32.403			SA#34 Dec 2006	Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM

11   Work item raporteurs

      Li Yewen (liyewen@chinamobile.com), Liangshuanchun@bcdi.com.cn

12   Work item leadership

      SA5

13   Supporting Companies

      China Mobile, Siemens, CATT, Ericsson, ZTE, Huawei, Motorola, Nortel, Nokia

14   Classification of the WI (if known)

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

14c   The WI is a **Work Task**: parent **Building Block**

      Performance Management (BB: OAM7-PM)

WI	Unique_ID
OAM7-PM	35043

Building Block: Trace Management (OAM7-Trace) <mark>Unique_ID: 35039</mark>

Technical Specification Group Services and System Aspects *TSGS#29(05)0628*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID BB update Trace Management (OAM7-Trace)
Document for:	Approval
Agenda Item:	11.27

3GPP TSG-SA5 (Telecom Management) S5-058849
Meeting #43, Bordeaux, FRANCE, 29 Aug - 2 Sep 2005

<u>Work Item Description</u>

Title:
Trace Management   <mark>Unique_ID: 35039</mark>

<mark>Acronym: OAM7-Trace</mark>

1   3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2   Linked work items

<u>OAM&P (Operations, Administration, Maintenance & Provisioning)</u> (Feature: OAM7)

Acronym	Unique_ID
OAM7	35041

Work Task:
The CN WID "Trace Management, stage3, IMS" (<mark>NP-050061.zip</mark>) - Acronym: OAM7-Trace-SIP, contains the CN Work Tasks.

"OMA Service Provider Environment Requirements", Open Mobile Alliance™, OMA-RD-OSPE-V1_0-20050523-D, URL:http://www.openmobilealliance.org/

3   Justification

Subscriber and Equipment Trace provide very detailed information at call level on one or more specific mobile(s).
This data is an additional source of information to Performance Measurements and allows going further in monitoring and optimisation operations.
Contrary to Performance Measurements, which are a permanent source of information, Trace is activated on user demand for a limited period of time for specific analysis purposes.
Trace plays a major role in activities such as determination of the root cause of a malfunctioning mobile, advanced troubleshooting, optimisation of resource usage and quality, RF coverage control and capacity improvement, dropped call analysis, Core Network and UTRAN end-to-end 3G procedure validation.

4   Objective

The general objective of this work item is to produce the specifications for Subscriber and Equipment Trace in 3GPP Release 7 according to the responsibilities of SA5 pertaining to high-level concepts and requirements of trace, to Subscriber and UE activity trace data definition and management, to trace data collection control and configuration management, and to bulk interfaces for trace data transfer from the network to the network manager.

In particular, the objectives of this work item is to add:

a)   Trace for IMS (Christian Toche [toche@nortel.com] Nortel, Nokia, Orange, Vodafone)
b)   Trace record content for UTRAN TDD (Wang Xuelong, CATT , wangxuelong@datangmobile.cn).

3GPP

c) End-to-end tracing for IMS: Stage 1 by OMA, Stage 2/3 SA5, CT1/3/4 (david.sanders@vodafone.com)
d) IRP for Subscriber and Equipment Trace Management [toche@nortel.com]

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	X	
No					X
Don't know	X				

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

New specifications						
Spec	Title	Prime WG	2ndary WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
					3GPPSA#34 Dec 2006	see WT WIDs

Affected existing specifications				
Spec	CR	Subject	Approved at plenary#	Comments
			3GPPSA#34 Dec 2006	see WT WIDs

Meetil	Doc-1-Level	Spec	CR	R	Phas	Subject	Cat	Ver-Cur	Ver-New	Doc-2nd-Level	Workitem
SP-29	SP-050623	32.423	0004	1	Rel-7	Clarify Trace Messages for FDD and TDD modes	B	6.2.0	7.0.0	S5-058851	OAM7-Trace
SP-29	SP-050623	32.421	0011	-	Rel-7	Add support for UTRAN TDD - Declare RAT Type	B	6.7.0	7.0.0	S5-058744	OAM7-Trace
SP-30	SP-050690	32.423	0007	-	Rel-7	Differentiate Trace Contents for FDD and TDD	B	7.0.0	7.1.0	S5-059030	OAM7-Trace

11 Work item rapporteur(s)
Christian Toche [toche@nortel.com]

12 Work item leadership
SA5 (having primary responsibility)

CT1, CT4, RAN3 (having secondary responsibility) on trace activation/deactivation
CT1, CT3, CT4 (having secondary responsibility) on End-to-end tracing for IMS

13 Supporting Companies
Nortel, Nokia, Orange, Vodafone, CATT, Siemens, TeliaSonera, Ericsson, Lucent, Motorola, China Mobile, ZTE

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**
(one Work Item identified as a feature)

OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM7)

Acronym	Unique_ID
OAM7	35041

Technical Specification Group Services and System Aspects *TSGS#29(05)0627*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT End-to-end Service Level tracing for IMS (OAM7-Trace-IMS)
Document for:	Approval
Agenda Item:	11.27

3GPP TSG-SA5 (Telecom Management) S5-058848
Meeting #43, Bordeaux, FRANCE, 29 Aug - 2 Sep 2005

<u>Work Item Description</u>

Title:
End-to-end Service Level tracing for IMS Unique_ID: 35062

Acronym: OAM7-Trace-IMS

1   3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2   Linked work items

a)   Trace Management (SA5 BB: OAM7-Trace)
b)   Trace Management, SIP Enhancements for Trace – (CT1 WT : OAM7-Trace-SIP)

	WI	Unique_ID
a)	OAM7-Trace	35039
b)	OAM7-Trace-SIP	11046

3   Justification

The Open Mobile Alliance™ (URL:http://www.openmobilealliance.org/) have developed a set of technology agnostic service level tracing requirements, which are now approved [see OMA-RD-OSPE-V1_0-20050614-C.pdf].

The intentions of Service Level Tracing are to improve and simplify end-to-end service diagnostics and to enhance the Mobile Operator's ability to manage their complex services. Service Level Tracing is aimed at end-to-end service-level diagnostics, rather than per node tracing. By definition, Service Level Tracing is the ability to capture and log all relevant information at each component within a service chain, associated with a specific service that is initiated either by an end user or a component [see OMA-RD-OSPE-V1_0-20050614-C.pdf].

Considering the importance of IMS, 3GPP SA5 SWGD, in coordination with 3GPP CT1, CT3, CT4, will start developing the appropriate specifications for end-to-end service tracing for IMS, and wherever possible to reuse existing 3GPP speciation and their capabilities to fulfil the OMA OSPE service level tracing requirements.

OMA OSPE service level tracing requirements specific to OMA enablers utilising IMS [see OMA-IMSinOMA-V1_0-20050204-C.zip] will be addressed within OMA.

4   Objective

The objectives of this work item are:

a)   For 3GPP TSG SA5 to review the OMA requirements for Service Level Tracing and develop their Stage 1, Stage 2 and Stage 3 specifications for Trace as appropriate.

b)   For 3GPP TSG SA5, as primary group responsible for Trace in 3GPP, to co-ordinate with 3GPP TSG CT 1, CT3, and CT4 in order for those working groups to develop the specifications under their control that are impacted.

5   Service Aspects

Refer to "OMA Service Provider Requirements" OMA-RD-OSPE-V1_0-20050614-C, The Open Mobile Alliance™
(URL:http://www.openmobilealliance.org/)

6 MMI-Aspects
None

7 Charging Aspects
Refer to "OMA Service Provider Requirements" OMA-RD-OSPE-V1_0-20050614-C, The Open Mobile Alliance™
(URL:http://www.openmobilealliance.org/)

8 Security Aspects
Refer to "OMA Service Provider Requirements" OMA-RD-OSPE-V1_0-20050614-C, The Open Mobile Alliance™
(URL:http://www.openmobilealliance.org/)

9 Impacts

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

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

New specifications						
Spec	Title	Prime WG	2ndary WG(s)	Presented for information at plenary #	Approved at plenary#	Comments

Affected existing specifications				
Spec	CR	Subject	Approved at plenary#	Comments
32.421			3GPPSA#34 Dec 2006	Trace Concepts and Requirements
32.422			3GPPSA#34 Dec 2006	Trace Control and Configuration Management
32.423			3GPPSA#34 Dec 2006	Trace Data Definition and Management
32.101			3GPPSA#34 Dec 2006	Telecommunication management; Principles and high level requirements
CTx TSs				to be identified in linked CT WG WIDs

11 Work item rapporteur(s)
David.Sanders@Vodafone.com

12 Work item leadership

OMA (Stage 1)

SA5 Stage 2/3 (having primary responsibility in 3GPP)
CT1, CT3, CT4 Stage 2/3 (having secondary responsibility in 3GPP)

13 Supporting Companies
Vodafone, CATT, China Mobile, Ericsson, Lucent, Nokia, Nortel, Siemens, Orange, Motorola, ZTE.

14 Classification of the WI (if known)

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

14c   The WI is a **Work Task**: parent **Building Block**
(one Work Item identified as a building block)

Trace Management (BB: OAM7-Trace)

WI	Unique_ID
OAM7-Trace	35039

Technical Specification Group Services and System Aspects　　　　*TSGS#29(05)0629*
Meeting #29, Tallinn, ESTONIA, 26-28 September 2005

Source:	SA5 (Telecom Management)
Title:	WID WT IRP for Subscriber and Equipment Trace Management (OAM7-Trace-IRP)
Document for:	Approval
Agenda Item:	11.27

3GPP TSG-SA5 (Telecom Management)　　　　**S5-056575**
Meeting #43, Bordeaux, FRANCE, 29 Aug - 2 Sep 2005

Work Item Description

Title:
IRP for Subscriber and Equipment Trace Management　　Unique_ID:　35070
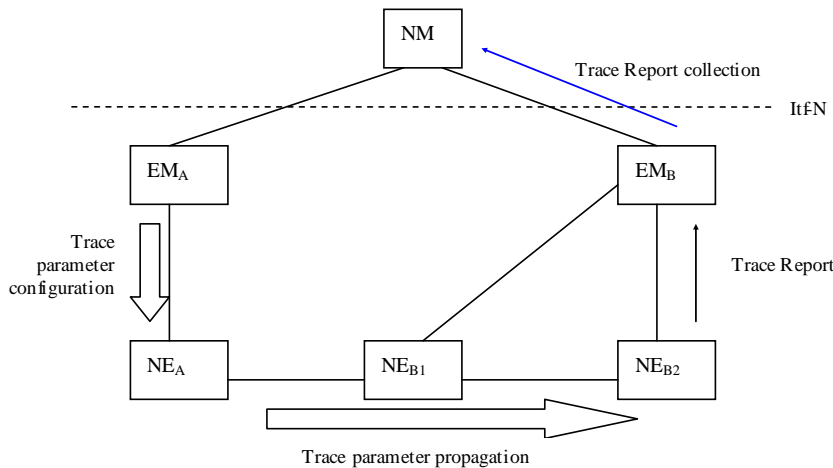
Acronym: OAM7-Trace-IRP

1　3GPP Work Area

X	Radio Access
X	Core Network
	Services

2　Linked work items

WI	Unique_ID
OAM7-Trace	35039

3　Justification

Example of a Signalling Based Activation case:

EMA and EMB could own to the same vendors or different vendors. For multi operator case the Trace Session activation may go across operator boundaries, but to get the trace records from other operator is subject to an agreement between the operators and is not subject to this WI.

- Trace is activated from EM_A with a Trace Reference managed by it self
- EM_B receives a Trace Report not requested
- NM receives a Trace Report not requested at any time from any NE

Trace management IRP would allow

⇨ Activation/Deactivation/Interrogation of a Trace Session from the NM with one unique Trace Reference
⇨ Trace report to be notified to NM with the known Trace Reference

Trace management IRP applies to both Signalling Based Activation and Management Based Activation.
Without the Trace management IRP there is no standardized centralized way for managing the trace.

4 Objective

The objective of this Work Item is to define:
- Requirements for the Trace Management IRP and
- Interface IRP (Information Service and Solution Set)

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			
Don't know					X

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
32.4xy	Subscriber and equipment trace; Trace Management Integration Reference Point (IRP): Requirements	SA5		~~3GPPSA#31 13 - 15 Mar 2006~~25 - 27 Sep 2006	3GPPSA#34 Dec 2006	
32.4xy	Subscriber and equipment trace; Trace Management IRP Information Service	SA5		3GPPSA#33 25 - 27 Sep 2006	3GPPSA#34 Dec 2006	
32.4xy	Subscriber and equipment trace; Trace Management Integration Reference Point (IRP): CORBA Solution Set	SA5		3GPPSA#33 25 - 27 Sep 2006	3GPPSA#34 Dec 2006	
Affected existing specifications						
Spec No.	CR		Subject	Approved at plenary#	Comments	
32.421				3GPPSA#34 4 - 6 Dec 2006		
32.422				3GPPSA#34 4 - 6 Dec 2006		
32.423				3GPPSA#34 4 - 6 Dec 2006		

Reason for re-scheduling:
Recently SA5 identified some interworking between the Trace IRP and the Service Level Tracing (SLT).
For SLT, SA5 just agreed on the Requirements and the Trace IRP got some input to the IRP requirement.

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11 Work item rapporteur(s)
Gyula.Bodog@NOKIA.COM~~Christian Toche~~
12 Work item leadership
SA5
13 Supporting Companies
Nortel, Nokia, Lucent Technologies, Huawei, Ericsson

14 Classification of the WI (if known)

Feature (go to 14a)

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

14c   The WI is a Work Task: parent Building Block

Trace Management (BB: OAM7-Trace)

WI	Unique_ID
OAM7-Trace	35039

3 Open Work item status and approval time frame

This list reflects the open work items running under the responsibility of TSG SA WG5.

	Work items in this colour are closed or building blocks.

4 Completed or Terminated Work items

This list reflects work items that have been completed or terminated.

Annex A:
Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Nov 2005	S5_44	S5-050529	--	--	Initial draft agreed by SA5#44		
Dec 2005	SA_30	SP-050734	--	--	Submitted to SA#30 for Information		
Mar 2006	SA_31	SP-060073	--	--	Converted to TR 32.207. Submitted to SA#31 for Information	0.0.3	