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

Work Item Description

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

1   **3GPP Work Area**

X	Radio Access
X	Core Network
	Services

2   **Linked work items**

still to be defined:

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

WI	Unique_ID
OAM7	35041

Network Infrastructure Management (BB: OAM-NIM)

WI	Unique_ID
OAM7-NIM	35042

Performance Management (BB: OAM-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		03/2006	06/2006	
32.373	IRP Security Management – Solution Set (CORBA IDL)	SA5		03/2006	06/2006	Production TBD later
32.374	IRP Security Management – Solution Set (CMIP GDMO)	SA5		03/2006	06/2006	Production TBD later

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
32.111		Add functionality IRP Security Management	06/2006	Alarm IRP
32.30x		Add functionality IRP Security Management	06/2006	Notification IRP
32.32x		Add functionality IRP Security Management	06/2006	Test Management IRP
32.33x		Add functionality IRP Security Management	06/2006	Notification Log IRP
32.34x		Add functionality IRP Security Management	06/2006	File Transfer IRP
32.35x		Add functionality IRP Security Management	06/2006	Communication Surveillance IRP
32.36x		Add functionality IRP Security Management	06/2006	Entry Point IRP
32.41x		Add functionality IRP Security Management	06/2006	Performance Management IRP
32.60x		Add functionality IRP Security Management	06/2006	Basic CM IRP
32.61x		Add functionality IRP Security Management	06/2006	Bulk CM IRP
32.66x		Add functionality IRP Security Management	06/2006	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)

14a   The WI is a Feature: List of building blocks under this feature
(list of Work Items identified as building blocks)
14b   The WI is a Building Block: parent Feature
(one Work Item identified as a feature)
14c   The WI is a Work Task: parent Building Block
(one Work Item identified as a building block)

still to be defined:

Network Infrastructure Management (BB: OAM-NIM)

WI	Unique_ID
OAM7-NIM	35042

Performance Management (BB: OAM-PM)

WI	Unique_ID
OAM7-PM	35043