Technical Specification Group Services and System Aspects
Meeting #9, Hawaii, USA, 25-28 September 2000

TSGS#9(00)0441

Source: **SA WG5 (Telecom Management)**

Title: **Work Item Descriptions for Release 2000 (R4/R5)**

Document for: **Approval**

Agenda Item: **7.5.3**

Work Item Descriptions

Work Item Title	New Specifications	Affected Existing Specifications	Document containing the WI description
Principles, high level Requirements and Architecture	-	32.101, 32.102	S5-000385
Subscription Management	32.140	22.057 (S1) 23.057 (T2) 32.101, 32.106	S5-000387
UTRAN Operations and Maintenance procedures	"S5 TR 01"	32.101, 32.102, 32.104, 32.106, 32.111	S5-000389
3G Fault Management	32.11x	32.111	S5-000419

Still missing Work Item Descriptions

Work Item Title	New Specifications	Affected Existing Specifications	Document containing the WI description
3G Configuration Management (CM)		32.106	
3G Performance Management (PM)		32.104	
3G Charging		32.105, 32.005, 32.015	
3G Tracing		12.08-evolution	

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Tdoc S5-000385

Work Item Description

Title Principles, high level Requirements and Architecture

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services
X	Terminals

2 Linked work items

Service Operations Management.
User Equipment Management.
IP Management.
Security Management (Key Administration & Distribution)

3 Justification

The 32.101 and 32.102 specification needs to evolve for R5, the new areas to be incorporated will include:

- Service Operations Management.
- IP Management.
- User Equipment Management.
- Security Key Administration and Distribution.

Note: Features (e.g. Service Operations Management) will require WI descriptions of their own; the above bullets identify that these features will impact 32.101 & 32.102.

4 Objective

The objective of this work item is to continue to lay down the technology principles to be followed by the 3G telecom management standardization and enumerate the high level requirements and Architecture that should be met by all other subsequent specifications to be produced by all TSG's pertinent to 3G system telecom management.

5 Service Aspects
6 MMI-Aspects
7 Charging Aspects
8 Security Aspects
9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X	X	X	
No					
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
32.101		3G Telecom Management Principles and High Level Requirements		
32.102		3G Telecom Management Architecture		

11 Work item rapporteurs

Michael Truss, Motorola (32.101), Tommy Berggren, Telia (32.102)

12 Work item leadership

SA5

13 Supporting Companies

Motorola, Telia, Telenor, Vodafone Group, BT, France Telecom, Sonera, Ericsson, Siemens, Bouygues Telecom, Mannesmann MobilFunk, Nortel Networks.

14 Classification of the WI (if known)

This work item is a building block

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

14b This work item is a building block.
This building block is a sub-division of each of the following features
User Equipment Management.
Service Operations Management
IP Management
Security Management (Key Administration & Distribution)

The Work Task for this WI are:
Principles
High Level Requirements
Architecture

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Tdoc S5-000387
S5A000031

Work Item Description

Title Subscription Management

1 3GPP Work Area

X	Radio Access Networks
X	Core Network
X	Services and Systems Aspects
X	Terminals

2 Linked work items

- Principles, high-level requirements and architecture (SA5)
- VHE Management Aspects (SA 1 and 2)
- MExE - 22.057 and 23.057 (T2)
- Configuration Management (SA5)
- Charging Management (SA5)

3 Justification

The move in Release 2000 towards supporting complex services will substantially increase the Subscription Management challenge from purely voice network concerns to include:

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

4 Objective

This work item will capture the operational requirements leading to solutions necessary for this subscription management challenge.

There is an expectation that some of the work tasks will need to be carried out by other 3GPP TSGs, or jointly between SA5 and other 3GPP TSGs.

It will derive all necessary R5 Subscription Management Building Blocks and Work Tasks to support these detailed subscription management requirements.

5 Service Aspects

This Feature will develop Subscription Management solutions to support the Services Framework proposed in Release 2000 as developed by SA1.

6 MMI-Aspects

Yes for end user/consumer Subscription Management interactions with their Service Provider.

7 Charging Aspects

Yes

8 Security Aspects

Yes

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	X	X	X	X	
No					
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
32.140	Service Operations Management Requirements & Framework	SA5	SA1 (for service definitions) SA2 (for architecture) SA3 (for security) T2 (for terminal capabilities) T3 (for USIM aspects)			This feature, Subscription management is a chapter of 32.140 (proposed timescale – R5)

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
22.057 23.057		TSG T (other specifications to be identified)		
		TSG N (specifications to be identified)		
		TSG R (specifications to be identified)		
32.101 32.106		TSG S (other specifications to be identified)		

11 Work item Rapporteurs

32.140 – Geoff Caryer (BT)

12 Work item leadership

SA5

13 Supporting Companies

BT, VoiceStream, Telenor, Telia, Sonera, Bouygues Telecom and FT

14 Classification of the WI (if known)

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

14a The WI is a Feature: List of building blocks under this feature:

- Principles, high-level requirements and architecture (SA5)
- VHE Management Aspects (SA 1 and 2)
- MExE - 22.057 and 23.057 (T2)
- Configuration Management (SA5)
  - MExE Subscription Management Solution Set (Work Task)
- Charging Management (SA5)

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Tdoc S5A-000389

Work Item Description

Title UTRAN Operations and Maintenance procedures

1 3GPP Work Area

X	Radio Access
	Core Network
	Services
	Terminals

2 Linked work items

- Principles, high level Requirements and Architecture (SA5)
- Configuration Management (SA5)
- Performance Management (SA5)
- Fault Management (SA5)
- RRM Support over Iub and Iur: RRM optimisation (RAN3)

3 Justification

The use of multi-vendor networks increases the need to have a common network management method. This concept is already covered by the IRPs but to verify their completeness and cooperation with other resource management interfaces a total overview of management procedures is needed. These procedures where deduced from experiences of operating GSM networks.

4 Objective

This work item will capture procedures and guidelines for identifying solutions to manage a multi-vendor network effectively.

It will develop:

- Use cases for the complete O&M process from NMC to Node B
- Guidelines for solutions
- General O&M Requirements

5 Service Aspects
6 MMI-Aspects
7 Charging Aspects
8 Security Aspects
9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes			X		
No					
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
S5 TR 01	Management Level Procedures and Interaction with UTRAN	SA5				To be complete by R5

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
32.101				
32.102				
32.104				
32.106				
32.111				

11 Work item raporteurs

Mannesmann Mobilfunk GmbH, Martijn HIJDRA

12 Work item leadership

SA5

13 Supporting Companies

Mannesmann Mobilfunk GmbH, T-Mobil, Viag Interkom GmbH, Vodafone Airtouch, France Telecom, Telenor.

14 Classification of the WI (if known)

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

14a The WI is a Feature: List of building blocks under this feature:

- Principles, high level Requirements and Architecture (SA5)
- Configuration Management (SA5)
- Performance Management (SA5)
- Fault Management (SA5)
- RRM Support over Iub and Iur: RRM optimisation (RAN3)

3GPP TSG-SA5 (Telecom Management)
Meeting #14, Milan, Italy, 11 - 15 September 2000

SA5#14(00)0419

Title: SA5 FM Work item for R4/R5
Source: FM rapporteur
Agenda item: FM
Document for: Approval

Category: Contribution for FM
Document Summary: SA5 FM Work item for R4/R5
Specification(s) involved:

Work Item Description

Title **3G Telecom Management: Fault Management**

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

3G Telecom Management architecture.
3G Telecom Management principles and high-level requirements.
3G Telecom Management configuration management.

3 Justification

The 32.111 set of specifications has covered in release 99 the basic needs to fault management. However, additional areas have now to be supported by fault management and due to progress simultaneously done in other standard bodies, it is now important to seek alignment with their outputs.

4 Objective

This work item has two objectives: to study the following areas from a fault management perspective and to seek alignment with other standard bodies.
The following areas should be covered:

- support of trouble ticketing,
- support of test management,
- support of security alarms,
- support of a storage mechanism for alarms,
- study the impact of IP on fault management,
- study of alarm correlation,
- study of an additional Solution Set using XML technology

In parallel, work will be carried on to align the specifications produced with the specifications defined by other standard bodies:

- alignment effort to align as much as possible CORBA Solution Set with T1M1.5 CORBA Framework
- Study of Q.821 to check for possible alignment of existing features in 32.111-2 with Q.821 and for possible enhancements of 32.111-2 based on Q.821

Whereas the target date for most tasks described above is R5, the study of trouble ticketing will be finalize in R4 and it's our goal to complete the alignment of the CORBA Solution Set with T1M1.5 CORBA Framework as soon as possible and preferably before end of R5.

5 Service Aspects
6 MMI-Aspects
7 Charging Aspects
8 Security Aspects
9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X	X	X	
No					
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
32.11x	3G Fault Management …	SA5				

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
32.111		3G Telecom Management: Fault Management		

11 Work item raporteurs

Patrick Juré, Lucent Technologies

12 Work item leadership

SA5

13 Supporting Companies

Lucent Technologies, Ericsson, Mannesmann, Motorola, Nortel, Siemens

14 Classification of the WI (if known)

This work item is a building block

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

14b This work item is a building block.
This building block is a sub-division of each of the following features
RAN Management.
Core Network Management
IP Management

14c The Work Task for this WI is: Fault Management