

## TSG-SA WG5 (Telecom Management) Status Report

Reported by

Michael TRUSS TSG-SA WG5 Chair



### SA5 Documents provided to this Plenary

NUMBER	TITLE
SP-020210	LS reply from SA WG5 on: "3GPP System – WLAN Interworking"
SP-020211	Reply LS from SA WG5 on "OAM&P standardization" from GSM NA
SP-020278	LS on Subscriber and Equipment Trace Impacts
SP-020281	Status report of SA5 to SA #16
SP-020282	Rel-4 CR 32.111-3 (Fault Management; Part 3: Alarm Integration Reference Point: CORBA SS) Addition of 'indeterminate' probable cause in IDL definition
SP-020283	2 Rel-4 & Rel-5 CRs 32.111-4 (Fault Management; Alarm Integration Reference Point; Part 4 CMIP SS)
SP-020284	3 Rel-5 CRs 32.111-4 (Fault Management: Alarm Integration Reference Point: Part 4 CMIP Solution Set)
SP-020285	6 Rel-4 & Rel-5 CRs 32.200. 32.205. 32.215 and 32.235
SP-020286	4 Rel-4 & Rel-5 CRs 32,200 and 32,215
SP-020287	5 Rel-5 CRs 32.200 (Charging principles)
SP-020288	2 Rel-4 & Rel-5 CRs 32.215 (PS charging): Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data
SP-020289	4 Rel-5 CRs 32.215 (PS charging)
SP-020290	2 Rel-5 CRs 32.304 (Configuration Management: Notification Integration Reference Point: CMIP SS)
SP-020291	4 Rel-5 CR 32.403 (Performance measurements - UMTS and combined UMTS/GSM)
SP-020292	2 R99 & Rel-4 CRs 12.04 & 52.402 (Performance measurements - GSM): Correction of erroneous definitions of SGSN measurements
SP-020293	2 R99 & Rel-4 CRs 12.04 & 52.402 (Performance measurements - GSM): Remove irrelevant definitions for SGSN measurements related to Ciphering Mode
SP-020294	Rel-4 CR 32.603 (Basic configuration management IRP: CORBA SS): Correcting IDL definitions of notification structured event Name Value pair names
SP-020295	Rel-5 CR 32.611 (3G configuration management: Bulk CM IRP requirements): Adding Bulk CM IRP requirements for Rel-5
SP-020296	3 Rel-4 CRs 32.612, 32.613 & 32.614 (Bulk configuration management IRP: Information service, CORBA SS & CMIP SS)
SP-020297	Rel-4 CR 32.613 (Bulk configuration management IRP CORBA SS): Add missing CORBA exceptions and descriptions of CORBA exception usage
SP-020298	Rel-5 CR 32.615 : New structure of specifications for definition of Bulk CM IRP XML file formats & 4 new v100 draft TSs 32.625/635/645/655 - for Information
SP-020299	Rel-4 CR 32.622 (Generic network resources IRP: NRM) : Remove R99-inherited restriction of self-containment for MOC SubNetwork
SP-020300	2 Rel-4 CRs 32.624 (Generic network resources: IRP CMIP Solution Set)
SP-020301	Rel-5 CR 32.631 (Core network resources IRP: requirements): Adding CN Management requirements over Interface-N for Rel-5
SP-020302	2 Rel-4 CRs 32.632 & 32.633 (Core Network Resources IRP: NRM & CORBA SS)
SP-020303	Rel-4 CR 32.642 (UTRAN network resources IRP: NRM): Corrections of reference in figure 6.2 and of attribute descriptions in UtranRelation
SP-020304	2 Rel-4 CRs 32.642 & 32.652 (UTRAN & GERAN network resources IRP: NRM) : Correction of supported IRP in system context
SP-020305	2 Rel-4 CRs 32.652 (GERAN network resources IRP: NRM): Correction of supported IRP in system context
SP-020327	Rel-5 draft TS 32.225 v150 (Charging data description for the IP Multimedia Subsystem) - for the 2 <sup>nd</sup> time for Information
SP-020328	4 new Rel-5 draft v100 TSs 32.321/2/3/4 (Test management IRP; Requirements/ IS/ CORBA SS/ CMIP SS)
SP-020329	2 new Rel-5 draft v100 TSs 32.671 & 32.672 (3G Configuration Management; State Management IRP: Requirements & Information service)
SP-020330	Rel-6 draft TS 32.421 v100 (Subscriber and Equipment Trace: Trace Concepts and Requirements)
SP-020331	Rel-5 draft TR 32.802 v200 (User Equipment Management UEM feasibility study), in co-operation with T2
SP-020332	Rel-6 BB-level Work Item Description on Trace Management



## • Chair – New 3GPP SA5 Officers

Michael TRUSS (Motorola Ltd/ ETSI) — elected 04/02 for remaining 1 year

Vice Chair – New both

Thomas RICHTER (Cingular Wireless LLC/ T1) – elected 04/02

Christian TOCHE (Nortel Networks/ ETSI) – elected 04/02 for remain. 1 year

Four (4) SWGs

**SWGA: Telecom Management - Architecture and Requirements** 

Michael TRUSS (Motorola Ltd/ ETSI) – Chair since 09/01 Tommy BERGGREN (Telia/ ETSI) – Vice Chair since 01/02

**SWGB: Charging Management – Restructured (PM & Trace spin-off)** 

Karl-Heinz NENNER (T-Mobile/ ETSI) - Chair since 09/2001

**SWGC: Telecom Network Infrastructure Management** 

Thomas TOVINGER (Ericsson/ ETSI) – Chair since 09/01
Joerg SCHMIDT (Motorola/ T1) – Vice Chair since 09/01
Frédéric BONNEAU (Nortel Networks/ ETSI) – Vice Chair since 10/01

SWGD: Performance Management and Trace Management – New Christian TOCHE (Nortel Networks/ ETSI) – Chair since 04/02

MCC Support: Adrian ZOICAS (MCC) - since 01/2000



## Chair: Michael TRUSS (Motorola Ltd/ ETSI)



## Vice Chair: Thomas RICHTER (Cingular Wireless/T1, GLOBAL INITIATIVE











## SWG structure

SWG	Area of Responsibility
<b>SWGA</b>	Telecom Management - Architecture and Requirements
WI(spec):	Architecture (32.101), Principles & Requirements (32.102), Subscription Management (SM) (32.140), User Equipment Management (UEM) (32.802).
Liaison:	T2 (MExE, UEM, SyncML), CN5 (OSA Management, OSA Charging), TMF (MMC, Mobile Management Team, MTEM), ITU-T SG4 (Architecture / Conformance).
<b>SWGB</b>	Charging Management
WI(spec):	Charging (32.200-series),
	Liaison: GSM Association (BARG Charging Principles Working Party, IREG, SERG), 3G.IP (IP/Charging requirements for IMS), T2 (MMS Charging), CN5 (OSA Charging), IETF-AAA (Diameter), IPDR (Charging).
SWGC	Telecom Network Infrastructure Management (TM Solutions)
WI(spec): Liaison:	Configuration (32.106/32.600-series), & Fault Management (32.111/32.300-series), Integration Reference Points (IRPs) to support products of SA5's SWGA/B/D. ITU-T SG 4 (CORBA, tML/XML), T1M1 (CORBA, TML), 3GPP2 (Delta Specification).
SWGD	10.00
	Performance Management (PM) (measurements, concepts, definition and requirements (32.400-/52.400-series), Subscriber and UE Tracing (32.400-series, 52.008).
Liaison:	ITU-T SG4 (IMT2000 Management), TMF (Wireless Service Management Team).



## Inter-Organizational

### **Co-operation with:**

## **3GPP2 TSG-S on Management standards**

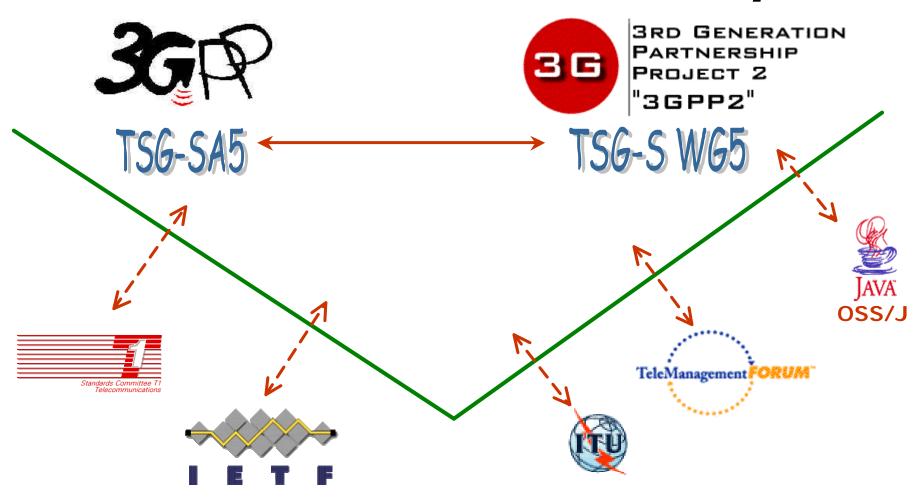
 3GPP2 TSG-S is referencing SA5's TSs in its specification S.S0028 "OAM&P for cdma2000 (3GPP Delta Specification)", which also documents some exception areas (e.g. network resource model for cdma2000)

# ITU-T SG4 & T1M1 on CORBA framework and XML/TML standardization

Further co-operation is under investigation

## TMF on 3G-mobile Management standards

## 3GPP and 3GPP2 Relationship

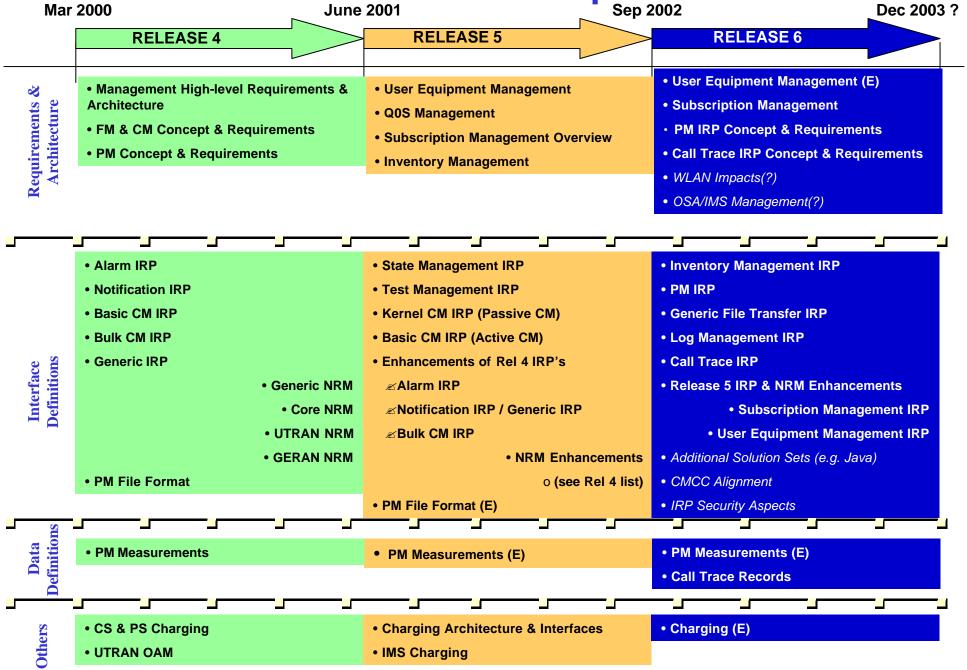


## 3GPP and 3GPP2 Relationship



- 3GPP defines standard North-Bound Interfaces (Bis)
- 3GPP2 re-uses 3GPP's NBI specifications
- One set of NBI standards for all 2G, 2.5G and 3G wireless technologies!

**3GPP SA5 Roadmap** 





## Administrative /Organizational

### Elections at SA5#27 in Cork/ IRELAND (04/02)

- Michael TRUSS (SA5 Vice Chair), was elected SA5 Chair for the remaining 1 year
- Thomas RICHTER (Cingular Wireless LLC/ T1) ), was elected SA5 Vice Chair for a two-years term
- Christian TOCHE (Nortel Networks/ ETSI), was elected SA5 Vice Chair for the remaining 1 year

### SWGB was split into two separate SWGs (04/02)

- SWGB (Charging Management)
- SWGD (Performance & Trace Management)

Ad-hoc meetings planned in order to completely deliver SA5's Rel-5 at SA#17 (09/02) – see meeting calendar last slide



## SA5 #27 Meetings held

- 2 5 April 2002 in Cork, IRELAND hosted by Motorola Ltd Attended by 56 delegates
- Full report in \$5-020300
- SA5#27 bis (CH) 8-10 April in Berlin, GERMANY (Siemens)
- SA5#27 quad (NIM) 14-17 May in Sophia Antipolis, FRANCE (ETSI)
- SA5#27 ter (CH) 15-17 May in Sophia Antipolis, FRANCE (ETSI)

### **SA5 #28**

- 20 24 May 2002 in Sophia Antipolis, FRANCE hosted by ETSI Attended by 56 delegates
- Draft report in \$5-020407

### Joint sessions during SA5#27 in Cork, IRELAND

- with GUP ad-hoc on GUP Mgmt & Data Definition (follow-on 08/02)
- with T2 SWG2 on User Equipment Management (follow-on 08/02)
- SA5 general session on CMCC's 3G Network Management Interface specification (follow-on meeting in 06/02)
- SA5 general session on ITU XML/ASN.1



## User Equipment Management Feature

 Rel-5 is 100% completed after SA Approval now, at SA#16, of TR 32.802 v2.0.0 (UEM feasibility study), produced in co-operation with T2

SA approval is requested for

SP-020331 Rel-5 draft TR 32.802 v200 (User Equipment Management UEM feasibility study

Rel-6 WID still needs to be defined & submitted in 09/02



## Subscription Management Feature

- Moved from Rel-5 to Rel-6
- SM is closely linked to GUP which was also moved to Rel-6
- Stage 1 TS 32.140 submitted to SA#15 for Information is 95% complete
- Stages 2 and 3 are 10% complete.
- Problems:
  - No Rapporteur available for Rel-6 work
  - Changed participation in SA5 reduces the number of supporting organisations of this Work Item to only two (2)
- Rel-6 WID to be submitted in 09/02 if solution to the above problems found

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# 36P

## Trace Management Feature

Moved from Rel-5 to Rel-6

### SA approval is requested for

**SP-020332** Rel-6 BB-level Work Item Description on Trace Management

WID submitted to SA#16 as Building Block instead of Feature as in Rel-5

#### SA is invited to note

SP-020330 Rel-6 draft TS 32.421 v100 (Subscriber and Equipment Trace:

**Trace Concepts and Requirements)** 

SP-020278 LS on Subscriber and Equipment Trace Impacts

WT: Trace Impacts on Network Signalling Interfaces (10% complete)

- LS sent to concerned WGs to inform SA5's requirements
- monitors progress of requests made to other 3GPP WGs
- 32.422 Trace Control and Configuration Management enhancement (40%)
- 32.423 Trace Data Definition and Management (30%)
- 52.008 GSM Subscriber and Equipment Trace moved to Rel-6

# 3GP

## Charging and OAM&P Feature

- Rel-5 85% complete: SA approval target delayed from 06/02 to 09/02
- Rel-6 WID to be submitted to SA#17 (09/02)

### **Open issues on Charging and OAM&P Feature**

- 32.225 v1.5.0 : IMS Charging:
  - In spite of huge progress and tremendous efforts, detailed review needed for: DIAMETER messages and AVPs, CDR parameter description and AVP/CDR parameter mapping, CDR formats: ASN.1/XML
- 32.200 : Charging Principles:
  - Alignment of stage 2/3 for MMS Charging needed
  - Addition of LCS Charging (CS & PS) needed
- 32.205 : CS Charging:
  - Addition of AMR WB parameters in CDR needed
  - Addition of support for MNP needed
- 32.600/300/111-series: Network Infrastructure Management:
  - All Requirement, IS/NRM & SS specs need more time for completion
  - At risk Trouble ticketing, Notification Log IRP, Inventory Management IRP
- 32.403 : Performance measurements
  - Addition of WSMT measurements needed



# BB: Principles, high level Requirements and Architecture (OAM-AR)

- completed at SA#15 (03/02)
- Rel-6 WID to be submitted to SA#17 (09/02)

### SA is invited to note

SP-020210 LS reply from SA5 on: "3GPP – WLAN Interworking"

SP-020211 LS reply from SA5 on "OAM&P standardization" from

**GSM NA** 





## BB: Charging Management (OAM-CH)

- 85% complete
- Rel-6 WID to be submitted to SA#17 (09/02)

### SA approval is requested for

SP-020285	6 Rel-4 & Rel-5 CRs 32.200, 32.205, 32.215 and 32.235
SP-020286	4 Rel-4 & Rel-5 CRs 32.200 and 32.215
SP-020287	5 Rel-5 CRs 32.200 (Charging principles)
SP-020288	2 Rel-4 & Rel-5 CRs 32.215 (PS charging)
SP-020289	4 Rel-5 CRs 32.215 (PS charging)

### SA is invited to note the major evolution of

SP-020327 Rel-5 draft TS 32.225 v150 (Charging data description for the IP Multimedia Subsystem) - for the 2<sup>nd</sup> time for Information



- BB: Performance Management (OAM-PM)
- 95% complete
- Rel-6 WID to be submitted to SA#17 (09/02)

### SA approval is requested for

SP-020291 4 Rel-5 CR 32.403 (Performance measurements – UMTS & combined UMTS/GSM)

**SP-020292** 2 R99 & Rel-4 CRs 12.04 & 52.402 (Performance measurements

- GSM)

SP-020293 2 R99 & Rel-4 CRs 12.04 & 52.402

### TSGS#16(02)0281 Meeting #16, Marco Island, Florida, 10-13 June 2002

# BB: Network Infrastructure Management (OAM-NIM)

• 70% complete

Rel-6 WID to be submitted to SA#17 (09/02)

### SA approval is requested for

SP-020282	Rel-4 CR 32.111-3 (Fault Management; Alarm IRP CORBA SS)
SP-020283	2 Rel-4 & Rel-5 CRs 32.111-4 (FM; Alarm IRP CMIP SS)
SP-020284	3 Rel-5 CRs 32.111-4 (FM; Alarm IRP CMIP SS)
SP-020290	2 Rel-5 CRs 32.304 (CM; Notification IRP CMIP SS)
SP-020294	Rel-4 CR 32.603 (Basic CN IRP: CORBA SS)
SP-020295	Rel-5 CR 32.611 (3G CM: Bulk CM IRP requirements)
SP-020296	3 Rel-4 CRs 32.612, 32.613 & 32.614 (Bulk CM IRP: Information service, CORBA SS & CMIP SS)
SP-020297	Rel-4 CR 32.613 (Bulk CM IRP CORBA SS)
SP-020298	Rel-5 CR 32.615 : New structure of specifications for definition of Bulk CM IRP XML file formats &
	4 new v100 draft TSs 32.625/635/645/655 - for Information
SP-020299	Rel-4 CR 32.622 (Generic network resources IRP: NRM)



# BB: Network Infrastructure Management (OAM-NIM) cont'd

### SA approval is requested for

SP-020300	2 Rel-4 CRs 32.624 (Generic network resources: IRP CMIP SS)
SP-020301	Rel-5 CR 32.631 (Core Network Resources IRP: requirements)
SP-020302	2 Rel-4 CRs 32.632 & 32.633 (Core NR IRP: NRM & CORBA SS)
SP-020303	Rel-4 CR 32.642 (UTRAN NR IRP: NRM)
SP-020304	2 Rel-4 CRs 32.642 & 32.652 (UTRAN & GERAN NR IRP: NRM)
SP-020305	2 Rel-4 CRs 32.652 (GERAN Network Resources IRP: NRM)

#### SA is invited to note

SP-020328	4 new Rel-5 draft v100 TSs 32.321/2/3/4 (Test management IRP; Requirements/ IS/ CORBA SS/ CMIP SS)
SP-020329	2 new Rel-5 draft v100 TSs 32.671 & 32.672 (3G CM;
	State Management IRP: Requirements & Information service)

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Future SA5 Meetings

Meeting	Date	Location	Host
SA5#28bis (CMCC)	20-21 Jun 2002	Beijing, CHINA	CMCC
SA5#29	24-28 Jun 2002	Beijing, CHINA	Nortel Networks
SA5#29bis (CH)	12-16 Aug 2002	Tampere, FINLAND	NOKIA
SA5#30	19-23 Aug 2002	Tampere, FINLAND	NOKIA
TSG#17	3 - 12 Sep 2002	Biarritz, FRANCE	Alcatel
SA5#31	7-11 Oct 2002	Atlanta, GA, USA	NA Friends
SA5#32	18-22 Nov 2002	Vienna, AUSTRIA	EF3
TSG#18	3 - 12 Dec 2002	New Orleans, USA	NA Friends
SA5#33 (non-plenary)	20-24 Jan 2003	Sophia Antipolis	ETSI
SA5#34 (Major)	24-28 Feb 2003	USA	NA Friends
TSG#19	11 - 21 Mar 2003	Jersey Island, UK	UK Friends
SA5#35 (Minor)	7 - 11 April 2003	Asia or Europe	TBD
SA5#36 (Major)	26-30 May 2003	Europe	EF3
TSG#20	10 - 19 Jun 2003	FINLAND	NOKIA
SA5#37(non-plenary)	14 – 18 Jul 2003	San Francisco, CA	3GPP2
SA5#38 (Major)	1-5 Sep 2003	Europe or Asia	TBD
TSG#21	16 - 25 Sep 2003		
SA5#39 (Minor)	6 - 10 Oct 2003	USA	NA Friends
SA5#40 (Major)	17-21 Nov 2003	Southern Europe	EF3
TSG#22	9 - 18 Dec 2003		