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Title:　　　　　　　　*Global Roadmap for SMG and SA plenary WIs*
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Agenda Item:　　　　**7**

This contribution reports the status of all the WIs proposed to SMG plenary, up to SMG 28 included, and to SA plenary, up to SA #3 included.

The WIs are classified by Release.

All the WIs belonging to GSM phase 2, Release 96 and Release 97 were presented to SMG and are now completed (or deleted).

All the Release 98 WIs have been presented to SMG. Some have been completed, and some are still ongoing: the section on Release 98 classifies the WIs according to their status.

For release 99, none of the WIs has been completed. Some of the WIs were presented to SA plenary, some to SMG plenary. The section on Release 99 classifies the WIs according to the group in which they were presented. The key classification for release 99 is however the system (i.e. GSM and/or UMTS) they impact. There is no one-to-one relationship between the group the WI was presented at and the system it impacts: some WIs presented to SMG impact GSM and UMTS, as well as some WIs presented to SA impact these two systems. A companion contribution proposes to classify the Release 99 WIs according to system(s) they impact.

1　GSM PHASE 2 WIs

These features were introduced in GSM Specifications V4.X.Y Series, with the exception of work item *Development of the SIM test specification (GSM Phase 2)* which is still on-going.

All these WIs have been completed.

WI Title
BSS Repeaters (RPT)
DCS1800 4 Watt mobile power class
DECT access to GSM networks
Development of the SIM test specification (GSM Phase 2)
Display of Service Provider Name by the ME
Enhanced Full Rate Speech codec
Facsimile Enhancements
GSM - DCS Roaming
IMEI Check Digits (ICD)
Operation of Multi-band GSM/DCS by a single Operator
SIM - Three Volt Technology SIM
SMS Cell Broadcast Discontinuous Reception (CB-DRX)
SMS concatenation
Software Version Number (SVN)
Transparently supporting UPT phase 1

2 RELEASE 96

All these WIs have been completed.

WI Title
14.4 kbit/s User Data Rate
ASCI Phase 1 - Enhanced Multi-Level Precedence and Pre-emption Service - phase 1
ASCI Phase 1 - Voice Broadcast Service (VBS) - phase 1
ASCI Phase 1 - Voice Group Call Service (VGCS) - phase 1
Barred Dialling Numbers
CAMEL phase 1
Compression of User Data
Concurrent SMS/CB and data transfer in 07.05
Explicit Call Transfer (ECT)
Extensions to the SMS alphabet
Fast Moving Mobile - Hierarchical Cell structure, GSM 05.22
Handsfree MS
High Speed Circuit Switched Data
Improved Transcoder Handling (First Alternative)
Inclusion of deferred tracing capabilities in GSM 12.08
ME Personalisation
Network Identity and Time Zone (NITZ)
Packet Data on Signalling Channels
Radio Local Loop (RLL) using GSM
Second SMS broadcast channel
Service Dialling Numbers
SIM Application Toolkit
SIM I/F data Transfer Speed Enhancement
SMS - Special SMS Message indication
SMS Interworking Extensions
Support of additional call set-up MMI procedures
Support of Optimal Routeing (SOR)
Support of Restricted Digital Information and V.120 rate adaptation in GSM

3 RELEASE 97

All these WIs have been completed.

WI Title
A-bis Management of Alarms/faults on the BTS site
A-bis Management of Measure on the BTS site
A-bis Management of reconfiguration of BTS site
ASCI Phase 2
Calling Name Presentation - US (CNAP-US)
CAMEL phase 2
Characteristics and test methods for handsfree mobile station
Completion of Calls to Busy Subscriber (CCBS)
Enhancement of MAP Extensibility Mechanisms
Enhancements of Fault Management Services
General Packet Radio Service Phase 1 (GPRS) - network part
General Packet Radio Service Phase 1 (GPRS) - radio part
Mobile Assisted Frequency Allocation (MAFA)
Modeling of Fault Management Services
Network Indication of Alerting in the MS
New Multiplexing Protocol on the ME-TE Interface
North American Equal Access
SIM - Security mechanisms for the SIM Application Toolkit
SMS enhancements phase 1
SMS Mobile Busy
Support of Private Numbering Plan (SPNP)
Support of Shared Interworking Function (SIWF)

4 RELEASE 98

4.1 Already completed WIs

WI Title
Access to auxiliary devices, integrated into the ME platform, through the use of the SIM Application Toolkit
BTS performance requirements for very small cell scenarios (Picocells)
Call Deflection
Calling line identification enhancements (CLIe)
Fraud Information Gathering System(FIGS)
GPRS phase 1 for PCS1900
GSM - Cordless Telephony System (CTS)
Harmonization of the PCS1900 Standards with the GSM Base Specification
Immediate Service Termination (IST) : CAMEL based solution
Low Voltage SIM/ME Specification (1.8 volt)
Multiple Subscriber Profile (MSP) based on CAMEL ph. 2
Service Provider Number Portability (USA)
Tandem Free Operation of speech codecs in Mobile-to-Mobile Calls (MMCs) in band (except for AMR)
User-to-User Signalling (UUS)

4.2 Ongoing WIs

WI Title
Access to ISPs and Intranets in GPRS Phase 2 – Separation of GPRS Bearer Establishment and ISP Service Environment Setup (R98)
Adaptive Multi-Rate (AMR)
Connecting an octet stream to a port on an Internet host (R98)
GSM Mobile Number Portability (EURO) MNP
GSM-API for SIM-Toolkit
Lawful Interception (LI)
Location Services (LCS)
Mobile Station Execution Environment (MExE)
Modem and ISDN interworking for GPRS
Support of Localized Service Area (SoLSA)
Tandem Free Operation of speech codecs in Mobile-to-Mobile Calls (MMCs) in band (including AMR)
Unstructured octet stream GPRS PDP Type (R98)

5 Release 99

5.1 WIs proposed at SMG plenary (up to SMG#28 included)

WI Title
Access to ISPs and Intranets in GPRS Phase 2 – Wireless/Remote Access to LANs (R99)
Advanced Addressing
Architecture of the GSM-UMTS Platform
Architecture overview of the GSM-UMTS System
Automatic Establishment of Roaming Relations
BSS co-ordination of Core Network Resource allocation for class A GPRS services -GSM-UMTS Core Network (R99)
BSS co-ordination of Radio Resource allocation for class A GPRS services - GSM Radio Access (R99)
Call Forwarding Enhancements (CFE)
Calling Name Presentation - Euro (CNAP-EU)
CAMEL Phase 3
Charging and Billing for GPRS – Advice of Charge
Charging and Billing for GPRS – Hot Billing
Charging and Billing for GPRS – Pre-Paid
Enhanced Data rates for GSM Evolution (EDGE) - BSS Part
Enhanced Data rates for GSM Evolution (EDGE) - NSS Part
Enhanced QoS Support in GPRS
Follow Me
Fraud Information Gathering System applied to GPRS
General Packet Radio Service Phase 2 (GPRS) - network part[1]
General Packet Radio Service Phase 2 (GPRS) - radio part[1]
Generic signalling mechanism for service support
GPRS - Point-To-Multipoint Services
GPRS Mobile IP Interworking
GPRS phase 2 for PCS1900
GSM on 450 MHz Frequency Band
Idle mode classmark
Immediate Service Termination (IST) : CAMEL free solution
Impact of Telecommunications Data Protection Directive on GSM Standards
Interworking with Mobile Satellite Systems
IP-in-IP tunnelling in GPRS backbone for UMTS, phase 1
LAPDm performance enhancement
MExE Release 99
MS and Network-Resident Execution Environments (MS/N-RExE)
MS Antenna Test Method
Multiple Subscriber Profile (MSP) based on CAMEL ph. 3
Noise Suppression for AMR speech codec
Provision of text telephony service in GSM and UMTS
Service Continuity and Provision of VHE via GSM/UMTS
Service to GSM Handportables in trains
Specification of a bearer independent protocol for SAT applications to exchange data over the GSM network
SS7 Security
Study on Combined GSM and Mobile IP Mobility Handling in UMTS IP CN

Study on provision of facsimile services in GSM and UMTS
Support for real time services in the Packet domain for GSM/GPRS/UMTS R99
Support of non-realtime Multimedia Messaging Service
Tandem Free Operation of speech codecs in Mobile-to-Mobile Calls (MMCs) : out-band
UMTS Charging & Billing
UMTS Numbering, Addressing and Identities
UMTS Open Service Architecture
USSD Enhancements
Virtual Home Environment

5.2   *WIs proposed at SA plenary (up to SA #3 included)*

WI Title
Access to ISPs and Intranets in GPRS Phase 2; Separation of General Packet Radio Service (GPRS) bearer establishment and ISP service environment setup (R99)
Call Forwarding Enhancements (CFE)
Codec for Low Bitrate Multimedia Telephony Service
Codec(s) for Wideband Telephony Services
End to End UMTS QoS Management
IP-in-IP tunnelling in GPRS backbone for UMTS, phase 1
Mandatory Speech Codec for Narrowband Telephony Service
Multimedia in UMTS
New Access Network to Core Network (BSS-NSS) interface
QoS for Speech and Multimedia Codec
Separation of Radio Resource (RR) and Mobility Management (MM) specific parts of the Mobile Sation Classmark (MS CM)
Support of non-realtime Multimedia Messaging Service
Tandem free aspects for UMTS and between UMTS and 2G systems
UMTS Core based on ATM Transport
UMTS Open Service Architecture
Unstructured Supplementary Service Data (USSD) enhancements

6   Release 2000

WI Title
Requirements for equipments/systems interfacing GSM