

Source: MCC

Title: Proposal of classification of the Release 99 WIs

Agenda item: 6.2

Document for:

Decision	X
Discussion	
Information	

This contribution proposes to classify the release 99 WIs. Three categories are proposed:

- the WIs applicable to GSM only
- the WIs applicable to 3G only
- the WIs applicable to both GSM and 3G

The intention is to avoid any replication of work between SMG and 3GPP, as to elude any potential discrepancies between GSM and 3G. Whereas it is clear that the GSM-only WIs have to be handled by SMG and the UMTS-only WIs have to be handled by 3GPP, the handling of common GSM/3G WIs should be clarified, even if it is not the main aim of this contribution.

The split is performed according to the assumption that a single Core Network is used for these two systems: only the radio access will be different, at least for release 99. Hence, all the WIs impacting the CN are basically applicable to both systems. GSM-only WIs impact only the GSM BSS, and UMTS-only WIs impact only the UTRAN.

A previous version of this document was presented at SA#4 and SMG#29 (TDocs SP-99331 and P-99-539), where it gets some support. It was then requested to provide comments to MCC (contact: alain.sultan@etsi.fr) for future refinements. This new version includes the WIs approved at SA#4 and SMG#29: their title is shown using a red font.

GSM only WIs

WI Title
Enhanced Data rates for GSM Evolution (EDGE) - BSS Part
Enhanced Data rates for GSM Evolution (EDGE) - NSS Part ¹
General Packet Radio Service Phase 2 (GPRS) – radio part ²
GSM on 450 MHz Frequency Band
BSS co-ordination of Radio Resource allocation for class A GPRS services - GSM Radio Access (R99)
BSS co-ordination of Core Network Resource allocation for class A GPRS services -GSM-3G Core Network (R99) ³

Common GSM/3G WIs

WI Title
Access to ISPs and Intranets in GPRS Phase 2 – Wireless/Remote Access to LANs (R99)
Access to ISPs and Intranets in GPRS Phase 2; Separation of General Packet Radio Service (GPRS) bearer

¹ As EDGE will not be used by 3G network, this WI has been classified as a GSM only WI, even if it impacts the common R99 GSM/3G CN. However, this WI should study that the proposed changes are not incompatible with the use of the UTRAN by the R99 GSM/3G CN.

² Comprises some related sub-work items.

³ Same remark as for note 1.

establishment and ISP service environment setup (R99)
Advanced Addressing
Architecture of the GSM-UMTS Platform
Architecture overview of the GSM-UMTS System
Automatic Establishment of Roaming Relations
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 QoS Support in GPRS
Follow Me
Fraud Information Gathering System applied to GPRS
General Packet Radio Service Phase 2 (GPRS) – network part ²
Generic signalling mechanism for service support
GPRS - Point-To-Multipoint Services
GPRS Mobile IP Interworking
Idle mode classmark ⁴
Immediate Service Termination (IST) : CAMEL free solution
Impact of Telecommunications Data Protection Directive on GSM Standards ⁵
Interworking with Mobile Satellite Systems
LAPDm performance enhancement
MexE Release 99

⁴ According to a working assumption made by N1, two MS Classmarks should be maintained both for UMTS and GSM, selectively used depending on the indication given by the CN. The WIs on MS classmark should be re-organised as to reflect such working assumption.

⁵ This WI should be renamed as “Impact of Telecommunications Data Protection Directive on GSM/3G Standards”

MS and Network-Resident Execution Environments (MS/N-RExE)
MS Antenna Test Method ⁶
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 ⁷
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
Tandem Free Operation of speech codecs in Mobile-to-Mobile Calls (MMCs) : out-band
Tandem free aspects for UMTS and between UMTS and 2G systems
USSD Enhancements
Virtual Home Environment
Codec for Low Bitrate Multimedia Telephony Service
Support of non-realtime Multimedia Messaging Service
Mandatory Speech Codec for Narrowband Telephony Service
WAP WAE User Agent / SIM toolkit interworking
Generic Logical and Physical specification for IC card and terminal interface
Specification of administrative commands and functions for IC cards
Codec(s) for Wide band Telephony Services ⁸
AMR – Wideband ⁹

⁶ This WI might be split into “MS antenna test methods for GSM BSS” and “MS antenna test methods for UTRAN”.

⁷ The applicability of this WI to 3G should be checked. If relevant to 3G, the WI should be renamed.

⁸ This WI was previously classified in SP-99331 as “3G only WI”. However, it should be applicable also to GSM using e.g. EDGE BSS, as stated in some comments received in the meantime: this is the reason why it has now been moved to this category.

⁹ The merging of this WI with the WI entitled “Codec(s) for Wide band Telephony Services” should be studied.

Gateway Location Register (GLR)
Turbo-Charger: Feasibility Study
Pre-paging

The following WIs state in their title that they apply only for 3G system. However, it is proposed that these WIs also apply to GSM, as they impact the core network, which is common to GSM and UMTS. In case such proposal is accepted, they should be renamed and classified as common GSM/3G WIs.

UMTS Charging & Billing ¹⁰
UMTS Numbering, Addressing and Identities ¹¹
UMTS Open Service Architecture
UMTS Core based on ATM Transport
IP-in-IP tunnelling in GPRS backbone for UMTS, phase 1
End to End UMTS QoS Management ¹²
QoS for Speech and Multimedia Codec ¹³
Multimedia in UMTS ¹⁴
3G Audio-Visual Terminal Characteristics
3G charging management ¹⁵
3G system fault management
3G system configuration management
3G system performance management

¹⁰ If applicable to GSM, either the differences with the WI "Charging and billing for GPRS" should be stressed or these two WIs should be merged.

¹¹ If applicable to GSM, then the WI "Advanced Addressing" should be merged to it.

¹² If applicable to GSM, either the differences with the WI "Enhanced QoS Support in GPRS" should be stressed or these two WIs should be merged.

¹³ The differences with previous WI should be stressed.

¹⁴ Even if it can be surprising to move this WI to the 'common 3G/GSM WI' category, it should be stressed why the mechanisms developed for 3G are not applicable to e.g. GPRS CN and EGDE BSS.

¹⁵ The difference with the WI entitled "UMTS Charging & Billing" is that the latter specifies the requirements whereas "3G charging management" intends to specify the actual mechanisms. This should be clarified in the WI titles.

3G only WIs

WI Title
New Access Network to Core Network (BSS-NSS) interface
Separation of Radio Resource (RR) and Mobility Management (MM) specific parts of the Mobile Station Classmark (MS CM) ⁴

Release 99 WIs impacting other systems

WI Title
GPRS phase 2 for PCS1900
EDGE Compact and support for EGPRS in ANSI-136 networks