

3GPP TSG_CN / SMG3 **Tdoc NP-000404**
Plenary Meeting #8, Düsseldorf, Germany
21st – 23rd June 2000.

Source: STF 139 chairman
Title: Work item description for ASCI R2000 enhancements
Agenda item: (SMG3 ad hoc)
Document for: Discussion

The following work item should be proposed to TSGs after the transfer of SMG responsibilities has been decided.

Work Item Description

Title: ASCI R2000 enhancements

1 3GPP Work Area

x	GSM Radio Access
x	Core Network
	Services

2 Linked work items

None

3 Justification

As required by the EC Directive 96/48 on High Speed Train Interoperability, European railways are actually introducing GSM for Railways (GSM-R); Railways of other countries world-wide have decided to introduce GSM-R or indicated their interest to introduce GSM-R. Further EC directives to widen the application in European railways are in preparation.

Some R2000 enhancements of ASCI are required for proper operation (and also requested by the TSI, Technical Standards for Interoperability).

4 Objective

Objective of the work item is to fulfil functional and operational requirements for railways operation.

5 Service Aspects

The proposed enhancements imply improvement of service aspects of VBS and VGCS (possibility to add operator-to-dispatcher information, VGCS / VBS ciphering for the common channels).

6 MMI-Aspects

In how far MMI aspects (example: indication that ciphering is applied) have to be defined in the specifications, has to be elaborated.

7 Charging Aspects

Definition of ASCI related event records is part of the work item.

8 Security Aspects

Introduction of VGCS/VBS ciphering is part of the work item.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	x	x	x	x	
No					
Don't know					

Expected Output and Time scale (to be updated at each plenary)

Note: An update of the specification numbers is expected due to a general restructuring under consideration. As the exact transfer of responsibilities has to be defined, reference to TSG meetings as a whole is made.

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	
01.04		CRs to update ASCI related acronyms		TSG #9		
02.68		CR to complete outstanding points on originator-to-dispatcher information (if any)		TSG #9		
02.68		CR on codec selection		TSG #9		
02.68		CR to clarify that call is connection condition		TSG #9		
02.68		CR to add descriptions for uplink reply and notification response procedure		TSG #9		
02.69		CR to complete outstanding points on originator-to-dispatcher information (if any)		TSG #9		
02.69		CR on codec selection		TSG #9		
02.69		CR to clarify that call is connection condition		TSG #9		
02.69		CR to add descriptions for uplink reply and notification response procedure		TSG #9		
03.20		VGCS ciphering		TSG #9		
03.20		VBS ciphering		TSG #9		
03.68		CR to add descriptions for uplink reply and notification response procedure		TSG #9		
03.68		CR to 03.68: The SIM doesn't have to distinguish between PLMN specific and supra PLMN Group IDs		TSG #9		
03.68		CR to 03.68: Group ID and Group Call Area Id are decimal numbers; only on the Um, (and therefore Abis and A) interface, for optimisation, binary coding is used, another CR to 03.03 may be necessary.		TSG #9		
03.68		CR to cover outstanding points on originator-to-dispatcher information (if any)		TSG #9		
03.68		CRs to correct and complete message flow		TSG #9		
03.68		CR for codec selection		TSG #9		
03.69		CR to add descriptions for uplink reply and notification response procedure		TSG #9		

03.69	CR to 03.69: The SIM doesn't have to distinguish between PLMN specific and supra PLMN Group IDs	TSG #9	
03.69	CR to 03.69: Group ID and Group Call Area Id are decimal numbers; addition of a note that only on the Um, (and therefore Abis and A) interface, for optimisation, binary coding is used. Another CR to 03.03 may be necessary	TSG #9	
03.69	CR to complete outstanding points on originator-to-dispatcher information (if any)	TSG #9	
03.69	CR on VBS ciphering	TSG #9	
03.69	CR on codec selection	TSG #9	
04.18	CRs for group/VBS ciphering	TSG #9	
04.18	CRs for codec selection for VBS/VGCS	TSG #9	
04.68	CR to complete outstanding points on originator-to-dispatcher information (if any)	TSG #9	
04.68	CR on codec selection	TSG #9	
04.68	CR on VGCS/VBS ciphering (if any)	TSG #9	
04.69	CR to complete outstanding points on originator-to-dispatcher information (if any)	TSG #9	
04.69	CR on codec selection	TSG #9	
04.69	CR on VGCS/VBS ciphering (if any)	TSG #9	
08.08	CR for A interface information on notification response	TSG #9	
08.08	CR on codec selection	TSG #9	
08.08	CR on VGCS/VBS ciphering	TSG #9	
11.10-1	CRs for codec selection	TSG #9	
11.10-1	CRs for VBS/VGCS ciphering	TSG #9	
11.11	CRs on originator-to-dispatcher information	TSG #9	
12.08	CRs to include VBS, VGCS, eMLPP related data	TSG #9	
23.008	CR on GId and GRef coding	TSG #9	
24.008	CR to 24.008 section 4.5.1.6 correcting the text to say that applicability of MM re-establishment depends on the protocol, the protocol state, etc.	TSG #9	
24.008	CR to 24.008 on implicit MM establishment	TSG #9	
24.008	CR on group call / VBS ciphering	TSG #9	
24.008	CR on codec selection for VBS / VGCS	TSG #9	
27.007	CRs related to originator-to-dispatcher information	TSG #9	
27.007	CRs on outstanding points for eMLPP	TSG #9	
32.005	CRs to include VBS, VGCS, eMLPP related data	TSG #9	

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12 Work item leadership

tbd (e.g., CN1 or a GERAN group)

13 Supporting Companies

Arcor, Kapsch, Nortel, Siemens, UIC, Sagem, SNCF

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

- operator-to-dispatcher information; associated work tasks:
 - * stage 1 outstanding issues (if any)
 - * stage 1 outstanding issues (if any)
 - * stage 1 outstanding issues (if any)
 - * AT commands
 - * MS testing outstanding issues (if any)
 - * SIM outstanding issues (if any)
- VGCS / VBS ciphering
- tracing for ASCI
- event records for ASCI
- ASCI related AT commands
- interaction ASCI-GPRS
- TEI

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)