ETSI/TC GSM
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RELEASE NOTE

Recommendation GSM 09.10-DCS

INFORMATION ELEMENT MAPPING BETWEEN MS-BSS/BSS-MSC SIGNALLING
PROCEDURES AND THE MOBILE APPLICATION PART

Previously distributed version   : 3.0.0
New released version February 1992: 3.0.0 (Release 92, Phase 1)

1. Reason for changes

No changes since the previously distributed version

2. Details of changes

CR	Title	Sections modified	Ref GSM Doc

3.Further Study Items

ETSI-GSM

Technical

Specification

European digital cellular telecommunication system (phase 1);

Information Element Mapping between MS-BSS/BSS-MSC Signalling Procedures and MAP

PREFATORY NOTE

ETSI has constituted stable and consistent documents which give specifications for the implementation of the European Cellular Telecommunications System. Historically, these documents have been identified as "GSM recommendations".

Some of these recommendations may subsequently become Interim European Telecommunications Standards (I-ETSs) or European Telecommunications Standards (ETSs), whilst some continue with the status of ETSI-GSM Technical Specifications. These ETSI-GSM Technical Specifications are for editorial reasons still referred to as GSM recommendations in some current GSM documents.

The numbering and version control system is the same for ETSI-GSM Technical Specifications as for "GSM recommendations".

ETSI/TC GSM

Title : **Recommendation GSM 09.10-DCS**

Information element mapping between MS-BSS/BSS-MSC signalling procedures and the Mobile Application Part

Version 3.0.0 (based on GSM 09.10 version 3.0.2)

Date: February, 1992

List of Contents (underlined sections indicate changes to
                 GSM 09.10)

Language of original: English

Number of pages : 8

1. Scope

The scope of this Recommendation is

i) to provide guidance on information element mapping between information elements contained in layer 3 messages sent on the MS-BSS interface (Recommendation GSM 04.08) and information elements contained in MAP messages (Recommendation GSM 09.02) where the MSC acts as transparent relay of information;

ii) to provide guidance on mapping as in i) above and additional interworking when the MSC also processes the information.

Note: Interworking for supplementary services is given in Recommendation GSM 09.11.

GSM 09.10-DCS consists of GSM 09.10 with the pages in this specification replacing those in GSM 09.10.

2. Classification of interworking cases

2.1 Transparent operations

The following operations in MAP require transparent mapping in the MSC (see Recommendation GSM 09.02 for definitions and the use of the operations):

- update location area

- detach IMSI

- attach IMSI

- forward new TMSI

- provide IMSI

- authenticate

- perform call control (in MSC-B)

3.2.2 Location area updating

	04.08	09.02	Notes

Forward message	LOC UPD REQ
	
	Location area id
	Mobile identity
	
	Mobile station classmark
	
	Cell identity
	
	-
	
	Ciphering key seq number
	
	Location update type
		Invoke: Update location area
		    Loc Area ID
		    Subscriber ID
		
		-
		
		-
		
		Target Loc Area ID
		
		Ciphering key seq number
		
		-
			
			4
			
			5
			
			1
			
			3

Positive results	LOC UPD ACC Mobile identity	Return result: Location area up- dating accepted -	 6
Negative results	LOC UPD REJ IMSI unknown in HLR Network failure ~~Roaming-not-allowed~~ PLMN not allowed National roaming not allowed in this location area Illegal MS Network failure Network failure Network failure Network failure Network failure	Return error Unknown Subscriber Unknown Loc Area ~~Roaming-Not-Allowed~~ "Roaming not allowed" with parameter "PLMN not allowed" "Roaming not allowed" with parameter "National roaming not allowed" Illegal MS System Failure Reject U-reject Abort L-cancel	 2

Notes: 1) This information element is inserted by the MSC.
2) The Unknown Loc Area error is not generated because of wrong information provided by the MS. The wrong information has been inserted by the MSC.
3) This parameter is used on the radio path in order to discriminate between normal location updating, periodic registration and IMSI attach.

4) The classmark is required only for radio resource management and is not transferred to the VLR.
5) This information element is not transferred to the VLR.
6) The mobile identity is inserted by the MSC as received in a forward new TMSI operation.