

# MAP ETSI

## Statement of Compliance

### STATEMENT OF COMPLIANCE

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# 1 General

## 1.1 Introduction

Ericsson Signaling SS7 is compliant with the ETSI standard Digital cellular telecommunications system (Version 1, 2 and 3); Mobile Application Part (MAP) specification (3GPP TS 29.002 version 10.5.0 (9.3.0, 3.11 and 5.3)) according to the tables in this document.

## 1.2 Concept

The terms that are used are:

- **C** - EIN module complies with the specified paragraph in the standard.
- **N** - EIN module does not comply with the specified paragraph in the standard.
- **P** - EIN module complies partly with the specified paragraph in the standard.
- - - There is nothing to implement in the referred paragraph (used in column “C”).





## 2 Compliance Lists

### 2.1 GSM 09.02 Mobile Application Part (MAP) Specification, Version 5.3.0

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Scope	-			
Normative references	-			
Abbreviations	-			
Configuration of the mobile network	-			
The entities of the mobile system	-			
The Home Location Register (HLR)	-			
The Visitor Location Register (VLR)	-			
The Mobile-services Switching Centre (MSC)	-			
The Base Station System (BSS)	-			
The Gateway MSC (GMSC)	-			
The SMS Gateway MSC	-			
The SMS Interworking MSC	-			
The Equipment Identity Register (EIR)	-			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Configuration of a Public Land Mobile Network (PLMN)	-			
Interconnection between PLMNs	-			
The interfaces within the mobile service	-			
Interface between the HLR and the VLR (D-interface)	-			
[spare]	-			
Interface between the VLR and its associated MSC(s) (B-interface)	-			
Interface between VLRs (G-interface)	-			
Interface between the HLR and the MSC (C-interface)	-			
Interface between MSCs (E-interface)	-			
Interface between the MSC and Base Station Systems (A-interface)	-			
Interface between MSC and EIR (F-interface)	-			
Splitting of the data storage	-			





Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Overload and compatibility overview	-			
Overload control	-			
Overload control for MSC (outside MAP)	-			
Overload control for MAP entities		x		
Congestion control for Signalling System No. 7		x		
Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			
Proposed method			x	Note 6
Managing the version look-up table			x	Note 6
Optimizing the method			x	Note 6
Requirements concerning the use of SCCP and TC	-			
Use of SCCP	x			Note 1
SCCP Class	x			Note 1
Sub-System Number (SSN)	x			Note 1
SCCP addressing	-			Note 1
Introduction	x			Note 1
The Mobile-services Switching Centre (MSC)	x			Note 1

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
MSC interaction during handover		x		
MSC for short message routing	x			Note 1
The Home Location Register (HLR)		x		
During call set-up.		x		
Before location updating completion		x		
After location updating completion		x		
VLR restoration		x		
The Visitor Location Register (VLR)		x		
Inter-VLR information retrieval		x		
HLR request		x		
The Interworking MSC (IWMSC) for Short Message Service	x			Note 1
The Equipment Identity Register (EIR).		x		
Summary table			x	Note 3 , Note 29
Use of TC	x			
General on MAP services	-			
Terminology and definitions	x			
Modelling principles	x			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Common MAP services	x			
MAP-OPEN service	x			
MAP-CLOSE service	x			
MAP-DELIMITED service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Sequencing of services	x			
General rules for mapping of services onto TC	-			
Mapping of common services	x			
Mapping of user specific services	x			
Definition of parameters	-			
Common parameters	-			
Invoke Id	x			
Linked Id	x			
Provider error	x			
User error			x	Note 3 , Note 29
Numbering and identification parameter	-			
IMSI	x			
TMSI	x			
IMEI	x			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Previous location area Id		x		
Stored location area Id		x		
Current location area Id		x		
Target location area Id		x		
Target cell Id		x		
[spare]	-			
Originating entity number		x		
MSC number	x			
Target MSC number		x		
HLR number	x			
VLR number	x			
HLR Id	x			
LMSI	x			
MS ISDN	x			
OMC Id.		x		
Roaming number	x			
[spare]	-			
Handover number		x		
Forwarded-to number		x		
Forwarded-to subaddress		x		
Called number	x			
Calling number	x			
Originally dialled number		x		
Service centre address	x			
Zone code		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
MSIsdn-Alert	x			
Subscriber management parameters	-			
Category		x		
Equipment status	x			
Bearer service		x		
Teleservice		x		
Basic Service Group	x			
GSM bearer capability		x		
Subscriber Status		x		
CUG Outgoing Access indicator	x			
Operator Determined Barring General Data		x		
ODB HPLMN Specific Data		x		
Regional Subscription Data		x		
Regional Subscription Response		x		
Roaming Restriction Due To Unsupported Feature		x		
Supplementary services parameters	-			
SS-Code		x		
SS-Status		x		
SS-Data		x		

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Override Category		x		
CLI Restriction Option		x		
Forwarding Options.		x		
No reply condition timer		x		
CUG info		x		
CUG subscription		x		
CUG interlock	x			
CUG index.		x		
CUG feature		x		
Inter CUG options		x		
Intra CUG restrictions		x		
Forwarding information		x		
Forwarding feature		x		
Forwarding data	x			
Call barring information		x		
Call barring feature		x		
New password		x		
Current password		x		
Guidance information.		x		
[spare]	-			
SS-Info		x		
- 5.6.4.35 [spare]	-			
USSD Data Coding Scheme	-	x		
USSD String	-	x		
Call parameters	-			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Call reference		x		
Radio parameters	-			
-5.6.6.6 [spare]	-			
HO-Number Not Required		x		
Authentication parameters	-			
Authentication set list	x			
Rand.	x			
Sres	x			
Kc	x			
[spare]	-			
Cksn		x		
Ciphering mode		x		
Short message parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
MWD status	x			
SM-RP-UI	x			
SM-RP-PRI	x			
SM Delivery Outcome	x			
More Messages To Send	x			
SM Delivery Timer	x			Note 35
SM Delivery Start Time	x			Note 35
Alert Reason	x			
Access and signalling system related parameters	-			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
BSS-apdu		x		
CM service type		x		
Access connection status		x		
External Signal Information		x		
Access signalling information		x		
Location update type		x		
Protocol ID		x		
Network signal information		x		
System operations parameters	-			
Network resources		x		
Trace reference		x		
Trace type		x		
Representation of a list of a basic parameter in service-primitives	x			
Mobility services		x		
Location management services		x		
Paging and Search		x		
Access management services		x		
Handover services		x		
Authentication management services	-			
MAP_AUTHENTICATE service		x		





Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_SEND_AUTHENTICATION_INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
Security management services		x		
International mobile equipment identities management services			x	
MAP_CHECK_IMEI service	x			
Operation and maintenance services		x		
Call handling services		x		
Supplementary services related services		x		
MAP_REGISTER_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ERASE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
MAP_ACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_DEACTIVATE_SS service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_INTERROGATE_SS service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_INVOKE_SS service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_REGISTER_PASSWORD service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_GET_PASSWORD service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_PROCESS_UNSTRUCTURED_SS_REQUEST service		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_UNSTRUCTURED_SS_REQUEST service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
MAP_UNSTRUCTURED_SS_NOTIFY service		x		
Definitions		x		
Service primitives		x		
Parameter use		x		
Short message service management service	-			
MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7
Service primitives			x	Note 7
Parameter use	x			
MAP-FORWARD-SHORT-MESSAGE service	-			
Definition			x	Note 9
Service primitives			x	Note 9
Parameter use	x			
MAP-REPORT-SM-DELIVERY-STATUS service	-			
Definition			x	Note 7
Service primitives			x	Note 7

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Parameter use	x			
MAP-READY-FOR-SM service	-			
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-ALERT-SERVICE-CENTRE service	-			
Definition			x	Note 8
Service primitives			x	Note 8
Parameter use	x			
MAP-INFORM-SERVICE-CENTRE service	-			
Definition			x	Note 7
Service primitives			x	Note 7
Parameter use	x			
MAP-SEND-INFO-FOR-MT-SMS service	-			
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-SEND-INFO-FOR-MO-SMS service	-			
Definition		x		
Service primitives		x		
Parameter use		x		
General	-			
Overview	x			
Underlying services	x			
Model	x			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Conventions	x			
Elements of procedure	-			
Dialogue establishment	x			
Receipt of a MAP-OPEN request primitive	x			
Receipt of a TC-BEGIN indication			x	Note 2
Receipt of a MAP-OPEN response	x			
Receipt of the first TC-CONTINUE ind	x			
Receipt of a TC-END ind	x			
Receipt of a TC-U-ABORT ind	x			
Receipt of a TC-P-ABORT ind	x			
Dialogue continuation	x			
Sending entity	x			
Receiving entity	x			
Dialogue termination	x			
Receipt of a MAP-CLOSE request	x			
Receipt of a TC-END indication	x			
User Abort	x			
MAP-U-ABORT request	x			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
TC-U-ABORT ind	x			
Provider abort	x			
MAP PM error situation	x			
MAP-P-ABORT request	x			
TC-P-ABORT ind	x			
Procedures for MAP specific services	x			
Service invocation	x			
Service invocation receipt	x			
Service response			x	Note 10
Receipt of a response	x			
Receipt of a TC-RESULT-NL indication		x		
Receipt of a TC-RESULT-L indication	x			
Receipt of a TC-U-ERROR indication	x			
Receipt of a TC-INVOKE indication	x			
Receipt of a TC-U-REJECT indication	x			
Receipt of a TC-L-REJECT indication	x			
Receipt of a TC-L-CANCEL indication	x			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Receipt of a TC-NOTICE indication	x			
Other events	x			
Receipt of a TC-U-REJECT	x			
Receipt of a TC-R-REJECT indication	x			
Receipt of a TC-L-REJECT indication	x			
Parameter checks	x			
Returning state machines to idle	x			
Load control	x			
Mapping on to TC services	-			
Dialogue control	x			
Directly mapped parameters	x			
Use of other parameters of dialogue handling primitives	-			
Dialogue Id	x			
Application-cont ext-name	x			
User information	x			
Component present	x			
Termination	x			
P-Abort-Cause	x			
Quality of service	x			
Service specific procedures	x			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Directly mapped parameters	x			
Use of other parameters of component handling primitives	-			
Dialogue Id	x			
Class	x			
Linked Id	x			
Operation			x	Note 3 , Note 29
Error	x			
Parameters	x			
Time out	x			
Last component	x			
Problem code	-			
Mapping to MAP User Error	x			
Mapping to MAP Provider Error parameter	x			
Mapping to diagnostic parameter	x			
SDL descriptions	-			
Abstract syntax of the MAP protocol	-			
General	x			
Encoding rules	x			
Use of TC	x			
Use of information elements defined outside MAP	x			
Compatibility considerations	x			





Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Structure of the Abstract Syntax of MAP			x	Note 3 , Note 29
Operation packages	-			
General aspects	x			
Packages specifications	-			
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
IMSI retrieval		x		
- 14.2.2.9 [spare]	-			
Interrogation		x		
[spare]	-			
Handover Control		x		
Subscriber Data management stand alone		x		
Equipment management		x		
Subscriber data management		x		
Location register restart		x		
Tracing stand-alone		x		
Functional SS handling		x		
Tracing		x		

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Binding		x		
Unstructured SS handling		x		
Short message relay services	x			
Short message gateway services	x			
- 14.2.2.25 [spare]	-			
Message waiting data management		x		
Alerting	x			
Data restoration		x		
Purging		x		
Application contexts	-			
General aspects	x			
Access-context definitions	-			
[spare]	-			
Location Updating		x		
Location Cancellation		x		
Roaming number enquiry		x		
[spare]	-			
Location Information Retrieval		x		
- 14.3.2.10 [spare]	-			
Location registers restart		x		
Handover control		x		
IMSI Retrieval		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Equipment Management		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
Stand Alone Subscriber Data Management		x		
Tracing		x		
Network functional SS handling		x		
Network unstructured SS handling		x		
Short Message Gateway	x			
Mobile originating Short Message Relay	x			
[spare]	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminating Short Message Relay	x			
MS purging		x		
ASN.1 Module for application-context-names			x	Note 3 , Note 29
MAP Dialogue Information	x			
MAP operation and error codes			x	Note 3 , Note 29

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
MAP operation and error types	-			
Mobile Service Operations			x	Note 29
Operation and Maintenance Operations		x		
Call Handling Operations		x		
Supplementary service operations		x		
Short message service operations			x	Note 7 , Note 8
Errors			x	Note 3
MAP constants and data types	-			
Mobile Service data types			x	Note 29
Operation and maintenance data types		x		
Call handling data types		x		
Supplementary service data types		x		
Supplementary service codes		x		
Short message data types	x			
Error data types			x	Note 3 , Note 29
Common data types			x	Note 3 , Note 29
Teleservice Codes		x		
Bearer Service Codes		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
General on MAP user procedures	-			
Introduction	x			
Common aspects of user procedure descriptions	-			
General conventions	x			
Naming conventions	x			
Convention on primitives parameters	x			
Open service	x			
Close service	x			
Version handling at dialogue establishment	x			
Behaviour at the initiating side	x			
Behaviour at the responding side	x			
Abort Handling	x			
SDL conventions	-			
Interaction between MAP Provider and MAP Users	x			
Mobility procedures		x		Note 4
Operation and maintenance procedures		x		Note 4
Call handling procedures		x		Note 4
Supplementary services procedures		x		Note 4

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Short message service procedures	-			
General	x			
Mobile originated short message service Co-ordinator for the MSC		x		
Short message Gateway Co-ordinator for the HLR		x		
The mobile originated short message transfer procedure	x			
Procedure in the servicing MSC		x		
Procedure in the VLR		x		
Procedure in the interworking MSC	x			
The mobile terminated short message transfer procedure			x	Note 7
Procedure in the servicing MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedure in the gateway MSC	x			
The Short Message Alert procedure			x	Note 8
Procedures in the servicing MSC		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Procedures in the VLR	-			
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedures in the HLR		x		
Procedures in the interworking MSC	x			
The SM delivery status report procedure			x	Note 7
Procedures in the HLR		x		
Procedures in the gateway MSC	x			
Common procedures for the short message clause	-			
The macro Report_SM_Delivery_Stat_HLR			x	Note 7
General macro description			x	Note 4 , Note 29

## 2.2 GSM 09.02 Mobile Application Part (MAP) Specification, Version 3.11.0

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Introduction	-			
Scope	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Applicability to GSM	-			
Abbreviations	-			
Configuration of the mobile network	-			
The entities of the mobile system	-			
The Home Location Register	-			
The Visitor Location Register	-			
The Mobile Services Switching Centre	-			
The Base Station System	-			
The Gateway MSC	-			
Equipment Identity Register	-			
Configuration of a Public Land Mobile Network	-			
Interconnection between PLMNs	-			
The interfaces within the mobile service	-			
General	-			
Interface between the HLR and the VLR	-			
Interface between the VLR and its associated MSC	-			
Interface between VLRs	-			





Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Interface between the HLR and the MSC	-			
Interface between MSCs	-			
Interface between the MSC and Base Station Systems	-			
Interface between MSC and EIR	-			
Splitting of the data storage	-			
Application and use of MAP	-			
General	-			
MAP procedures			x	Note 3
Requirements concerning the use of SCCP and TCAP	-			
Use of SCCP	-			
SCCP Class	x			
Sub-system number	x			
SCCP addressing	-			
Introduction	x			
The mobile Switching Centre	x			
VLR response message		x		
HLR response message		x		
MSC Interaction during hand-over		x		
MSC for short message routing	x			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Home Location Register		x		
During Call Set up		x		
Location Updating		x		
VLR requests and responses		x		
MSC transactions		x		
VLR transactions		x		
Local MSC' s transactions		x		
HLR request or response		x		
The Gateway MSC	x			
The Interworking MSC for short message service	x			
Summary table			x	Note 3
Use of TCAP	x			
Procedures	-			
General	-			
Overview of procedures and interfaces			x	Note 3
Specification principles	x			
Distribution of messages at the ASE/TCAP interface	x			
Mapping between MAP procedures and TCAP operations	x			
Location registra tion/cancellation	-			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Location registration	-			
Definition of interface for location registration		x		
General description of location registration	-			
Updating involving only the visitor location register		x		
Updating involving both a VLR and an HLR		x		
Location register updating initiated by VLR		x		
Detailed procedures for location registration	-			
Procedures in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
Procedures in the previous VLR (VLR1)		x		
Location cancellation	-			
Definition of interface for location cancellation		x		
General description of location cancellation		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Detailed procedures for location cancellation	-			
Procedures in the HLR		x		
Procedures in the VLR		x		
IMSI detach/attach procedure	-			
Definition of interface for IMSI detach/attach		x		
General description of IMSI detach/attach	-			
IMSI detached flag set in the VLR		x		
Deregistration flag set in the HLR		x		
Detailed procedures for IMSI detach/attach	-			
Procedures in the MSC		x		
Procedure in the VLR		x		
Procedures for deregistration in the HLR		x		
Handling of supplementary services	-			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Registration/erasure, activation/deactivation, invocation and interrogation by MS and processing of unstructured SS data	-			
Definition of interfaces		x		
General description of procedures for handling of supplementary services	-			
List of procedures		x		
Procedures when all the handling functions are in the VLR		x		
Procedures for transitting supplementary services requests via a visitor location register		x		
Detailed procedures for handling of supplementary services	-			
Procedures in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
Notification of supplementary services status	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Interface and general description of procedures		x		
Detailed description in a VLR relaying the notification	-			
Procedures in the HLR when detecting the conflict		x		
Procedures in the VLR relaying the notification		x		
Procedures in the MSC		x		
Registration of a new password by MS	-			
Interfaces and general description of procedures		x		
Detailed procedures for registration of a new password	-			
Procedures in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
Checking of the password by the HLR	-			
Interface and general description		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Detailed procedures for checking of the password	-			
Procedures in the HLR		x		
Procedures in the VLR		x		
Procedures in MSC		x		
Begin subscriber activity	-			
General description of the procedure		x		
Detailed description of the procedure	-			
Procedures in the VLR		x		
Procedures in the HLR		x		
Retrieval of subscriber parameters during call set-up	-			
Definition of interface		x		
General description of procedures	-			
Information retrieval for I/C and O/G call set-up		x		
Indirect information retrieval		x		
Procedure for obtaining routing data		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Detailed description of procedures	-			
Procedures in the MSC	-			
MS terminating calls		x		
MS originated calls		x		
Retrieval of routing information		x		
Procedures in the VLR	-			
MS terminating calls		x		
MS originated calls		x		
Roaming number provision		x		
Procedures in the HLR	-			
Procedures for retrieval of routing information		x		
Handover	-			
Definition of interfaces		x		
General overview of procedures	-			
List of procedures		x		
Basic handover procedure and procedur for requesting handover number		x		
Subsequent handover procedure		x		





Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Example of the use of the handover procedure		x		
Procedure for receiving access signalling from the MS		x		
Procedure for forwarding access signalling to the MS		x		
Detailed procedures for handover	-			
Procedures in MSC-A	-			
Basic handover procedure		x		
Subsequent handover procedure		x		
Procedures in MSC-B	-			
Basic handover procedure		x		
Subsequent handover procedure		x		
Allocation of handover number		x		
Procedure in VLR for allocation of handover number		x		
Detailed procedure for handling of access signalling during handover	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Procedures for receiving access signalling from the MS	-			
Procedure in MSC-B		x		
Procedure in MSC-A		x		
Procedures for forwarding access signalling to the MS	-			
Procedures in MSC-A		x		
Procedures in MSC-B		x		
Subscriber management	-			
Retrieval of subscriber data	-			
Definition of the interface		x		
General description of procedures		x		
Detailed description of subscriber parameter request	-			
Procedures in the VLR		x		
Procedures in the HLR		x		
Updating of subscriber data in visitor location register	-			
Definition of the interface		x		
General description of procedure		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Detailed procedures for insert subscriber data	-			
Procedures in HLR		x		
Procedures in VLR		x		
Detailed procedures for delete subscriber data	-			
Procedures in HLR		x		
Procedures in VLR		x		
Operation and Maintenance	-			
Transfer of charging information	-			
Definition of interface		x		
General description of procedures		x		
Detailed description of the procedure for transfer of charging data	-			
Procedures in the MSC		x		
Procedures in HLR		x		
Subscriber tracing procedures	-			
Definition of interfaces		x		
General overview of procedures	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
List of procedures		x		
Procedure for providing a trace request to the VLR		x		
Procedure for trace request cancellation in the VLR		x		
Procedure for requesting subscriber tracing at MSCs		x		
Detailed description of procedures for subscriber tracing	-			
Procedures in the HLR	-			
Procedure for providing a trace request		x		
Procedure for trace request cancellation		x		
Procedures in the VLR	-			
Procedure for receiving trace request		x		
Procedure for trace request cancellation		x		
Procedure for requesting subscriber tracing at MSCs		x		
Procedures in the MSC	-			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Procedure for receiving the trace subscriber activity		x		
Procedure for requesting subscriber tracing at MSC-B		x		
Note internal handover	-			
General description of the procedure		x		
Detailed description of the procedure between MSC-A and MSC-B	-			
Procedure in the controlling MSC (MSC-A)		x		
	-	-	-	
Procedure in the servicing MSC (MSC-B)		x		
Fault recovery of location registers	-			
Requirements		x		
Definition of interfaces		x		
Procedures for restoration of VLR		x		
Procedures for restoration of HLR		x		
Detailed description of reset procedure	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Procedure in originating entity (VLR or HLR)		x		
Procedure in receiving entity (HLR or VLR)		x		
Procedure for checking supplementary services	-			
General description of the procedure		x		
Detailed description of the procedure in the HLR		x		
Detailed description of the procedure in the VLR		x		
Detailed description of the procedure in the MSC		x		
Management of international mobile equipment identities	-			
Definition of interface		x		
General description of procedures		x		
Detailed description of the IMEI management procedure	-			
Procedure in the MSC		x		
Procedure in the EIR		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Authentication	-			
Definition of the interface		x		
Basic authentication procedure	-			
General description of the procedure		x		
Detailed description of the basic authentication procedure	-			
Procedure in the VLR		x		
Procedures in the MSC		x		
Procedure for transferring authentication parameters from HLR to VLR	-			
General description of the procedure		x		
Detailed description of the procedure	-			
Procedure in the VLR		x		
Procedures in the HLR		x		
Procedure for obtaining authentication parameters from the previous VLR		x		
Management of security related functions	-			
Initiation of ciphering	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
General description of the procedure		x		
Detailed procedures in the VLR		x		
Detailed procedures in the MSC		x		
Identity management	-			
Identity request procedure	-			
Definition of interface		x		
Detailed procedures in VLR		x		
Detailed procedures in MSC		x		
Reallocation of TMSI	-			
Definition of interface		x		
Detailed procedures in VLR		x		
Detailed procedure in the MSC		x		
Support of short message services	-			
Procedure for retrieving short message routing information	-			
General description of the procedure	x			





Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Detailed description of the procedure	-			
Procedures in the gateway MSC	x			
Procedures in HLR		x		
Procedure for forwarding of short message	-			
General description of the procedure	x			
Detailed description of the procedure between a GMSC and the servicing MSC	-			
Procedure in the gateway MSC	x			
Procedure in the servicing MSC		x		
Detailed description of the procedure between the servicing MSC and an interworking MSC (MS originating short message)	-			
Procedure in the servicing MSC		x		
Procedure in the IWMSC	x			
Procedure for setting Message Waiting Data in HLR	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
General description of the procedure	x			
Detailed description of the procedure	-			
Procedure in GMSC	x			
Procedure in the HLR		x		
Procedure for MS present indication VLR-HLR	-			
General description of the procedure		x		
Detailed description of the procedure	-			
Procedure in the VLR		x		
Procedure in HLR		x		
Procedure for alerting service centre	-			
General description of the procedure	x			
Detailed description of the procedure	-			
Procedure in HLR		x		
Procedure in IWMSC	x			
Access request management	-			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
General description of access management procedures		x		
Detailed description of the procedure in the MSC		x		
Detailed description of the procedure in the VLR		x		
Paging and search procedures	-			
General description of search and paging procedures		x		
Detailed description of the procedure in the VLR	-			
Paging procedure		x		
Search procedures		x		
Detailed description of the procedure in the MSC	-			
Paging procedure		x		
Search procedure		x		
MAP protocol specifications	-			
General	x			
Operation types	-			
Operations types ASN.1 specification			x	Note 3
Operation types description	x			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Location management	-			
Update location area		x		
Update location		x		
Cancel location		x		
Detach IMSI		x		
Attach IMSI		x		
Deregister mobile subscriber		x		
Subscriber data management	-			
Insert subscriber data		x		
Delete subscriber data		x		
Send parameter		x		
Supplementary service handling	-			
Register supplementary service		x		
Erase supplementary service		x		
Activate supplementary service		x		
Deactivate supplementary service		x		
Interrogate supplementary service		x		
Invoke supplementary service		x		
Forward supplementary service notification		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Register password		x		
Get password		x		
Process unstructured supplementary service		x		
Call set-up	-			
Send information for incoming call		x		
Send information for outgoing call		x		
Send routing information		x		
Provide roaming number		x		
Complete call		x		
Connect to following address		x		
Process call waiting		x		
Paging	-			
Page		x		
Search for mobile subscriber		x		
Handover	-			
Perform handover		x		
Send end signal		x		
Perform subsequent handover		x		
Allocate handover number		x		
Send handover report		x		
Process access signalling		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Forward access signalling		x		
Charging	-			
Register charging information		x		
Fault recovery	-			
Reset		x		
Forward check supplementary service indication		x		
Tracing	-			
Activate trace mode		x		
Deactivate trace mode		x		
Trace subscriber activity		x		
Note internal Handover		x		
Equipment management	-			
Check IMEI		x		
Authentication and security	-			
Authenticate		x		
Provide IMSI		x		
Forward new TMSI		x		
Set ciphering mode		x		
Short messages	-			
Send routing information for short message	x			
Forward short message	x			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Set message waiting data	x			
Note MS present		x		
Alert service centre	x			
Access request	-			
Process access request		x		
Begin subscriber activity		x		
Error types	-			
Error types ASN.1 specification			x	Note 3
Error types description	x			
Identification and numbering	-			
UnknownSubscriber	x			
UnknownBaseStation		x		
UnknownMSC		x		
UnknownLocArea		x		
UnidentifiedSubscriber	x			
UnallocatedRoamingNumber		x		
UnknownEquipment		x		
Subscription	-			
RoamingNotAllowed		x		
IllegalIMS	x			
BearerServiceNotProvisioned		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
TeleserviceNotProvisioned	x			
InsufficientBearerCapabilities		x		
Supplementary services	-			
CallBarred	x			
ForwardingViolation		x		
CUG-Reject	x			
IllegalSS-Operation		x		
SS-ErrorStatus		x		
SS-NotAvailable		x		
SS-SubscriptionViolation		x		
SS-Incompatibility		x		
FacilityNotSupported	x			
Handover	-			
InvalidTargetBaseStation		x		
NoRadioResourceAvailable		x		
NoHandoverNumberAvailable		x		
SubsequentHandoverFailure		x		
Call set-up	-			
NoRoamingNumberAvailable		x		
AbsentSubscriber	x			
BusySubscriber		x		
NoSubscriberReply		x		
RadioCongestion		x		





Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
ImpossibleCallCompletion		x		
Short messages	-			
SM-DeliveryFailure	x			
MessageWaitingListFull	x			
Generic errors	-			
SystemFailure	x			
DataMissing	x			
UnexpectedDataValue	x			
Password handling	-			
PasswordRegistrationFailure		x		
NegativePasswordCheck		x		
Tracing	-			
TracingBufferFull		x		
Data types and identifiers	-			
Common rules	-			
General		x		
Basic data types	x			
TBCD-STRING type	x			
AddressString type	x			
IsdnAddressString	x			
ExternalSignalInfo		x		
ASN.1 data types			x	Note 3
Identifiers definitions	x			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Numbering and identification parameters	-			
SubscriberId		x		
IMSI	x			
TMSI		x		
IMEI		x		
PreviousLocAreaId		x		
StoredLocAreaId		x		
TargetLocAreaId		x		
TargetCellId		x		
Serving Cell Id		x		
Originating Entity Number		x		
Msc Number		x		
Target Msc Number		x		
Hlr Number		x		
Vlr Number		x		
Hlr Id		x		
IMsId	x			
Msisdn	x			
OmcId		x		
Roaming Number		x		
Previous Roaming Number		x		
LocationInfo	x			
RoutingInfo		x		
IncomingId		x		
Handover Number		x		
Forward To Number		x		
Called Number		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Calling Number		x		
Dialled Number		x		
Subscriber management parameters		x		
Category		x		
SubscriberData		x		
Equip Status		x		
Bearer Service		x		
Tele Service	x			
Basic Service		x		
Activate Basic Service		x		
Gsm-Bearer Capability		x		
SubscriberStatus		x		
Supplementary services parameters		x		
SS-Information		x		
SS-Code		x		
Active Suppl Services		x		
SS-Status		x		
SS-Data		x		
Provisioned Suppl Services		x		
SS-Request		x		
SS-Subscription Option		x		
Forwarding Options		x		
Per Call Basis		x		
Notification To Hold Retrieve Party		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
User To User Service Indicator		x		
Maximum Conferees Number		x		
Hunt Group Access Selection Order		x		
No Reply Condition Time		x		
Number Of Conferees		x		
Cug-Information		x		
Cug-Feature		x		
Cug-Facilities		x		
Cug-Interlock	x			
Cug-Index		x		
Cug-Options		x		
Forwarding Info		x		
Forwarding Feature		x		
Forwarding Data	x			
CallBarring Info		x		
CallBarring Feature		x		
SS-Notification		x		
Current Password		x		
New Password		x		
Guidance Info		x		
SS-User Data		x		
Call parameters		x		
Call Reference		x		
Call Type		x		
SS-Charging Data Info		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
SS-Charging Data		x		
Call Duration		x		
Call Data Time		x		
Packet Data Volume		x		
Charge		x		
Charging Unit		x		
CallStatus		x		
Number Of Forwarding		x		
Radio parameters		x		
Channel Type		x		
Classmark Information		x		
Handover Priority		x		
Handover Type		x		
Authentication parameters		x		
AuthenticationSet		x		
Rand		x		
Sres		x		
Kc		x		
Ki		x		
Cksn		x		
CipheringMode		x		
Short Message services parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
Mwd-Set	x			
SM-RP-UI	x			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
SM-RP-PRI	x			
ServiceCentreAddress	x			
Others	-			
BSS-APDU		x		
RequestParameters		x		
SentParameters		x		
NetworkResource		x		
TraceReference		x		
CmServiceType		x		
AccessConnectionStatus		x		
TraceType		x		
NetworkSignalInfo		x		
AccessSignalInfo		x		
MAP User abort information			x	Note 5
Operations and error implementation			x	Note 3
Operations for MSC			x	Note 3
Operations for VLR		x		
Operations for HLR		x		
Operations for EIR		x		
Timers in the MAP procedures			x	Note 3
Overview over figures for ASN.1 specification				



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Mapping on TC services	-			
General rules	-			
Notation and conventions	x			
Component grouping		x		
Dialogue user abort	-			
General			x	Note 5
unspecifiedReason		x		Note 5
versionNotSupported		x		Note 5
userResourceLimitation		x		Note 5
resourceUnavailableLongTermProblem		x		Note 5
resourceUnavailableTemporaryProblem		x		Note 5
radioChannelRelease		x		Note 5
networkRelease		x		Note 5
callRelease		x		Note 5
associatedProcedureFailed		x		Note 5
abnormalDialogue		x		Note 5
RemoteOperationFailure		x		Note 5
Mapping of messages onto TC primitives	-			
TC interface for location area updating procedure		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
TC interface for location updating procedure between VLR and HLR		x		
TC interface for IMSI enquiring procedure		x		
TC interface for location cancellation procedure		x		
TC interface for IMSI-Attach/Detach procedure		x		
TC interface for deregistration procedure		x		
TC interface for subscriber data updating procedure		x		
TC interface for subscriber data deletion		x		
TC interface for handling of supplementary services with VLR		x		
TC interface for handling of supplementary services with HLR		x		
TC interface for MS originating call setup		x		
TC interface for MS terminating call setup	-			
Successful establishment		x		





Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Busy subscriber / No paging response		x		
Detached subscriber		x		
No subscriber reply / radio congestion		x		
TC interface for indirect information retrieval during call set-up		x		
TC interface for obtaining routing data		x		
TC interface for roaming number enquiry		x		
TC interface for handover procedures between MSCs		x		
TC interface for handover number allocation procedure		x		
TC interface for charging information transfer procedure		x		
TC interface for reset procedure		x		
TC interface for trace mode activation		x		
TC interface for trace mode deactivation		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
TC interface for equipment identity check procedure		x		
TC interface for retrieval of authentication parameters		x		
TC interface for procedure with IMSI request		x		
TC interface for obtaining short message routing data	x			
TC interface for short message waiting data setting	x			
TC interface for MS present indication		x		
TC interface for service centre alerting	x			
TC interface for short message forwarding	x			
TC interface for abnormal situation in any MAP procedure	x			

## 2.3 3GPP TS 29.002 Mobile Application Part (MAP) Specification, Version 7.12.0

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Scope	-			
References	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Abbreviations	-			
Void	-			
Overload and compatibility overview	-			
Overload control		x		
Overload control for MSC (outside MAP)		x		
Overload control for MAP entities		x		
Congestion control for Signalling System No. 7		x		
Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			
Proposed method			x	Note 6
Managing the version look-up table			x	Note 6
Optimizing the method			x	Note 6
Requirements concerning the use of SCCP and TC	-			
Use of SCCP	x			Note 1
SCCP Class	x			Note 1
Sub-System Number (SSN)	x			Note 1
SCCP addressing	-			
Introduction	x			Note 1

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
The Mobile-services Switching Centre (MSC)	x			Note 1
MSC interaction during handover or relocation		x		
MSC for short message routing	x			Note 1
MSC for location request routing	x			
MSC for LMU control		x		
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		
After location updating completion		x		
VLR restoration		x		
During Network-Requested PDB Context Activation		x		
Before GPRS location updating completion		x		
After GPRS location updating completion		x		
Query for a Location Request	x			
The Visitor Location Register (VLR)		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Inter-VLR information retrieval		x		
HLR request		x		
The Interworking MSC (IWMSC) for Short Message Service	x			Note 1
The Equipment Identity Register (EIR)		x		
Void	-			
The Serving GPRS Support Node (SGSN)		x		
The Gateway GPRS Support Node (GGSN)		x		
The Gateway MSC (GMSC) for Short Message Service	x			
Void	-			
Void	-			
Void	-			
The Gateway Mobile Location Centre (GMLC)	x			
Summary table			x	Note 3
Use of TC	x			
General on MAP services	-			
Terminology and definitions	x			
Modelling principles	x			
Common MAP services	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP-OPEN service	x			
MAP-CLOSE service	x			
MAP-DELIMITE R service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Void	-			
Void	-			
Void	-			
Void	-			
Sequencing of services	x			
General rules for mapping of services onto TC	x			
Mapping of common services	x			
Mapping of user specific services	x			
Definition of parameters	x			
Common parameters	-			
Invoke Id	x			
Linked Id	x			
Provider error	x			
User error	x			Note 3 , Note 17
All Information Sent		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Numbering and identification parameters	-			
IMSI	x			
TMSI		x		
IMEI	x			
IMEISV		x		
Previous location area Id		x		
Stored location area Id		x		
Current location area Id		x		
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		
Void	-			
Originating entity number		x		
MSC number	x			
Target MSC number		x		
HLR number	x			
VLR number	x			
HLR Id		x		
LMSI	x			
MS ISDN	x			
OMC Id		x		
Roaming number		x		
Relocation Number List		x		
Void	-			
Handover number		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Forwarded-to number		x		
Long forwarded-to number		x		
Long FTN Supported		x		
Forwarded-to subaddress		x		
Called number	x			
Calling number	x			
Originally dialled number		x		
Service centre address	x			
Zone Code		x		
MSIsdn-Alert	x			
Location Information			x	Note 22
Location Information for GPRS			x	Note 22
GMSC Address		x		
VMSC Address		x		
Group Id		x		
North American Equal Access preferred Carrier Id		x		
Void	-			
Void	-			
Serving cell Id		x		
SGSN number		x		
SGSN address		x		
GGSN address		x		
GGSN number		x		
APN		x		





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Network Node number	x			
PDP-Type			x	Note 22
PDP-Address			x	Note 22
Additional number	x			
P-TMSI		x		
B-subscriber number		x		
B-subscriber subaddress		x		
LMU Number		x		
MLC Number	x			
Multicall Bearer Information		x		
Multiple Bearer Requested		x		
Multiple Bearer Not Supported		x		
PDP-Charging Characteristics		x		
Selected RAB ID		x		
RAB ID		x		
gsmSCF Address	x			Note 15
V-GMLC Address			x	Note 14
Void	-			
H-GMLC Address	x			
PPR Address	x			
Routeing Number			x	Note 22
Additional V-GMLC Address	x			
Subscriber management parameters	-			
Category		x		
Equipment status		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
BMUEF		x		
Extensible Bearer service		x		
Extensible Teleservice		x		
Extensible Basic Service Group		x		
GSM bearer capability		x		
Subscriber Status		x		
CUG Outgoing Access indicator		x		
Operator Determined Barring General Data	x			
ODB HPLMN Specific Data	x			
Regional Subscription Data		x		
Regional Subscription Response		x		
Roaming Restriction Due To Unsupported Feature		x		
Extensible SS-Info	x			
Extensible forwarding information	x			
Extensible forwarding feature	x			
Extensible SS-Status	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Extensible Forwarding Options	x			
Extensible No reply condition timer	x			
Extensible Call barring information	x			
Extensible Call barring feature	x			
CUG info		x		
CUG subscription		x		
CUG interlock		x		
CUG index		x		
CUG feature		x		
Inter CUG options		x		
Intra CUG restrictions		x		
Extensible SS-Data		x		
Subscriber State		x		
Requested Info	x			
Requested Domain	x			
Suppression of Announcement		x		
Suppress T-CSI		x		
GMSC CAMEL Subscription Info		x		
VLR CAMEL Subscription Info		x		
Supported CAMEL Phases in the VLR	x			
Supported CAMEL Phases in the SGSN	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Offered CAMEL4 CSIs in the VLR	x			
Offered CAMEL4 CSIs in the SGSN	x			
Offered CAMEL4 CSIs		x		
Offered CAMEL4 CSIs in GMSC		x		
Offered CAMEL4 CSIs in VMSC		x		
Offered CAMEL4 Functionalities		x		
Supported CAMEL Phases		x		
Supported CAMEL Phases in interrogating node		x		
CUG Subscription Flag		x		
CAMEL Subscription Info Withdraw		x		
Voice Group Call Service (VGCS) Data		x		
Voice Broadcast Service (VBS) Data		x		
ISDN bearer capability		x		
Lower layer Compability		x		
High Layer Compability		x		
Alerting Pattern		x		
GPRS Subscription Data Withdraw		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
GPRS Subscription Data		x		
QoS-Subscribed		x		
VPLMN address allowed		x		
Roaming Restricted In SGSN Due To Unsupported Feature		x		
Network Access Mode		x		
Mobile Not Reachable Reason		x		
Cancellation Type		x		
All GPRS Data		x		
Complete Data List Included		x		
PDP Context Identifier		x		
LSA Information		x		
SoLSA support indicator		x		
LSA Information Withdraw		x		
LMU Indicator		x		
LCS information		x		
GMLC List		x		
LCS Privacy Exception List		x		
Additional LCS Privacy Exception List		x		
LCS Privacy Exception Parameters		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
External Client List		x		
Internal Client List		x		
MO-LR List		x		
Privacy Notification to MS User		x		
GMLC List Withdraw		x		
Service Type List		x		
IST Alert Timer		x		
Call Termination Indicator		x		
IST Information Withdraw		x		
IST Support Indicator		x		
Super-Charger Supported In HLR		x		
Super-Charger Supported In Serving Network Entity		x		
Age Indicator		x		
GPRS enhancements support indicator		x		
Extension QoS-Subscribed			x	Note 22
SGSN CAMEL Subscription Info		x		
Extension-2 QoS-Subscribed			x	Note 22
Extension-3 QoS-Subscribed			x	Note 22
MO-SMS-CSI	x			
MT-SMS-CSI	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
GPRS-CSI	x			
CAMEL subscription info	x			
Extensible Call barring information for CSE	x			
Extensible Forwarding information for CSE	x			
Modification Request for CSI	x			
Modification Request for ODB data	x			
Modification Request for SS Information	x			
Call Barring Data	x			
Call Forwarding Data	x			
ODB Data	x			
Requested Subscription Info	x			
CS Allocation/Retention priority		x		
ODB Info	x			
Suppress VT-CSI		x		
Suppress Incoming Call Barring		x		
gsmSCF Initiated Call		x		
SuppressMTSS		x		
Call barring support indicator		x		
MNP Info Result			x	Note 22

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Allowed Services		x		
Unavailability Cause		x		
MNP Requested Info	x			
Access Restriction Data		x		
Supported RAT types indicator		x		
Supplementary services parameters	-			
SS-Code		x		
SS-Code 2		x		
SS-Status		x		
SS-Data		x		
Override Category		x		
CLI Restriction Option		x		
Forwarding Options		x		
No reply condition timer		x		
Void		x		
Forwarding information		x		
Forwarding feature		x		
Void		x		
Call barring information		x		
Call barring feature		x		
New password		x		
Current password		x		





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Guidance information		x		
Void		x		
SS-Info		x		
Void		x		
USSD Data Coding Scheme	x			
USSD String	x			
Bearer service		x		
Bearer Service 2		x		
Teleservice		x		
Teleservice 2		x		
Basic Service Group		x		
eMLPP information		x		
SS-event		x		
SS-event data		x		
LCS Privacy Exceptions		x		
Mobile Originating Location Request (MO-LR)		x		
NbrUser		x		
MC Subscription Data		x		
MC Information		x		
CCBS Request State		x		
Basic Service Group 2		x		
Call parameters	-			
Call reference number		x		
Interrogation type		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
OR interrogation		x		
OR capability		x		
Forwarding reason		x		
Forwarding interrogation required		x		
O-CSI		x		
D-CSI		x		
T-CSI		x		
VT-CSI		x		
O-IM-CSI		x		
D-IM-CSI		x		
VT-IM-CSI		x		
Void	-			
Void	-			
Void	-			
CCBS Feature		x		
UU Data		x		
UUS CF Interaction		x		
Number Portability Status			x	Note 22
Pre-paging supported		x		
MT Roaming Retry Supported		x		
MT Roaming Retry		x		
Radio parameters		x		
Void		x		
GERAN Classmark		x		
BSSMAP Service Handover		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
BSSMAP Service Handover List		x		
RANAP Service Handover		x		
HO-Number Not Required		x		
Integrity Protection Information		x		
Encryption Information		x		
Radio Resource Information		x		
Radio Resource List		x		
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		
Allowed GSM Algorithms		x		
Allowed UMTS Algorithms		x		
Selected GSM Algorithm		x		
Iu-Currently Used Codec		x		
Iu-Supported Codecs List		x		
Iu-Available Codecs List		x		
Iu-Selected Codec		x		
RAB Configuration Indicator		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
UESBI-Iu		x		
Alternative Channel Type		x		
Authentication parameters		x		
Authentication set list	x			
Rand	x			
Sres	x			
Kc	x			
Xres	x			
Ck	x			
Ik	x			
Autn	x			
Cksn		x		
Ksi		x		
Auts		x		
Ciphering mode		x		
Current Security Context		x		
Failure cause		x		
Re-attempt		x		
Access Type		x		
Short message parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
MWD status	x			
SM-RP-UI	x			
SM-RP-PRI	x			
SM Delivery Outcome	x			
More Messages To Send	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Alert Reason		x		
Absent Subscriber Diagnostic SM	x			
Alert Reason Indicator		x		
Additional Alert Reason Indicator		x		
Additional SM Delivery Outcome	x			
Additional Absent Subscriber Diagnostic SM	x			
Delivery Outcome Indicator	x			
GPRS Node Indicator	x			
GPRS Support Indicator	x			
SM-RP-MTI	x			
SM-RP-SMEA	x			
IP-SM-GW SM Delivery Outcome	x			
IP-SM-GW Absent Subscriber Diagnostic SM	x			
IP-SM-GW Indicator	x			
Access and signalling system related parameters		x		
AN-apdu		x		
CM service type		x		
Access connection status		x		
External Signal Information		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Access signalling information		x		
Location update type		x		
Protocol ID		x		
Network signal information		x		
Network signal information 2		x		
Call Info		x		
Additional signal info		x		
System operations parameters		x		
Network resources			x	Note 23
Trace reference		x		
Trace reference 2		x		
Trace type		x		
Additional network resources			x	Note 24
Trace depth list		x		
Trace NE type list		x		
Trace interface list		x		
Trace event list		x		Note 25
Trace support indicator		x		Note 25
Location Service Parameters	-			
Age of Location Estimate	x			
Deferred MT-LR Response Indicator	x			
Deferred MT-LR Data	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
LCS Client ID	x			
LCS Event	x			
Void	-			
LCS Priority	x			
LCS QoS	x			
CS LCS Not Supported by UE		x		
PS LCS Not Supported by UE		x		
Location Estimate	x			
GERAN Positioning Data	x			
UTRAN Positioning Data	x			
Location Type	x			
NA-ESRD	x			
NA-ESRK	x			
LCS Service Type Id	x			
Privacy Override	x			
Supported LCS Capability Sets			x	Note 14
LCS Codeword	x			
NA-ESRK Request	x			
Supported GAD Shapes	x			
Additional Location Estimate	x			
Cell Id Or SAI	x			
LCS-Reference Number	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
LCS Privacy Check	x			
Additional LCS Capability Sets	x			
Area Event Info	x			
Velocity Estimate	x			
Accuracy Fulfilment Indicator	x			
MO-LR Short Circuit Indicator	x			
Reporting PLMN List	x			
Periodic LDR information	x			
Sequence Number	x			
Secure Transport Parameters		x		
Security Header		x		
Representation of a list of a basic parameter in service-primitives	x			
Mobility services	-			
Location management services	-			
Void	-			
Void	-			
Void	-			
Void	-			
MAP_UPDATE_LOCATION service		x		
Definition		x		
Service primitives		x		





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Parameter definitions and use		x		
MAP_CANCEL_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEND_IDENTIFICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Void		x		
Void		x		
Void		x		
Void		x		
MAP_PURGE_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_UPDATE_GPRS_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP-NOTE-MM-EVENT		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Paging and search	-			
MAP_PAGE service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEARCH_F OR_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Access management services	-			
MAP_PROCESS_ACCESS_REQUEST service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Handover services		x		
MAP_PREPARE_HANDOVER service		x		
Definition		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
MAP_SEND_END _SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PROCESS_ ACCESS_  SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_FORWARD_ ACCESS_  SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PREPARE_ SUBSEQUENT_  HANDOVER		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ALLOCATE_ _HANDOVER_  NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP_SEND_HAN DOVER_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Authentication management services	-			
MAP_AUTHENTI CATE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_SEND_AUT HENTICATION_ INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_AUTHENTI CATION_FAILUR E_ REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Security manage ment services	-			
MAP_SET_CIPH ERING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
International mobile equipment identities management services	-			
MAP_CHECK_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_OBTAIN_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Subscriber management services	-			
MAP-INSERT-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Basic service information related to supplementary services		x		
MAP-DELETE-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Identity management services	-			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP-PROVIDE-I MSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-FORWARD-NEW-TMSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Fault recovery services	-			
MAP_RESET service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FORWARD_CHECK_SS_ INDICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_RESTORE_ DATA service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Subscriber Information services	-			
MAP-ANY-TIME-INTERROGATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
MAP-PROVIDE-SUBSCRIBER-INFO service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
MAP-ANY-TIME-SUBSCRIPTION-INTERROGATION service	x			Client side supported
Definition	x			Client side supported
Service primitives	x			Client side supported
Parameter definitions and use	x			Client side supported
MAP-ANY-TIME-MODIFICATION service	x			Client side supported
Definition	x			Client side supported
Service primitives	x			Client side supported
Parameter definitions and use	x			Client side supported

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP-NOTE-SU BSCRIBER-DA TA-MODIFIED service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Operation and maintenance services	-			
Subscriber tracing services	-			
MAP-ACTIVATE -TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-DEACTIVA TE-TRACE-MOD E service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-TRACE-SU BSCRIBER- ACTIVITY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Other operation and maintenance services	-			
MAP-SEND-IMSI service	-			





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Definition	x			
Service primitives	x			
Parameter use	x			
Call handling services	-			
MAP_SEND_ROUTING_INFORMATION service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PROVIDE_ROAMING_NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_RESUME_CALL_HANDLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PREPARE_GROUP_CALL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_PROCESS_GROUP_CALL_SIGNALLING service		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FORWARD_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEND_GROUP_CALL_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7A MAP_SEND_GROUP_CALL_INFO service		x		
10.7A.1 Definitions		x		
10.7A.2 Service primitives		x		
10.7A.3 Parameter definitions and use		x		
Void		x		
Void		x		
MAP_SET_REPORTING_STATE service.		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_STATUS_R EPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_REMOT E_USER_FREE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_IST_ALERT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_IST_COMM AND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_RELEAS E_RESOURCES service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Supplementary services related services	-			
MAP_REGISTER _SS service		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ERASE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_DEACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_INTERROGATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Void	-			
MAP_REGISTER_PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_GET_PASSWORD service		x		
Definition		x		
Service primitives		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Parameter use		x		
MAP_PROCESS_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_UNSTRUCTURED_SS_NOTIFY service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_SS_INVOCATION_NOTIFY		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_REGISTER_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ERASE_CC_ENTRY service		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
Short message service management services	-			
MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7 , Note 26
Service primitives			x	Note 7 , Note 26
Parameter use	x			Note 26
MAP-MO-FORWARD-SHORT-MESSAGE service	-			
Definition	x			Note 9 , Note 17 , Note 26
Service primitives	x			Note 9 , Note 17 , Note 26
Parameter use	x			Note 17 , Note 26
MAP-REPORT-SM-DELIVERY-STATUS service	-			
Definition	x			Note 9 , Note 26
Service primitives	x			Note 9 , Note 26
Parameter use	x			
MAP-READY-FOR-SM service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-ALERT-SERVICE-CENTRE service	-			
Definition	x			Note 8 , Note 26



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Service primitives	x			Note 8 , Note 26
Parameter use	x			
MAP-INFORM-SERVICE-CENTRE service	-			
Definition	x			Note 7 , Note 26
Service primitives	x			Note 7 , Note 26
Parameter use	x			
MAP-SEND-INFO-FOR-MT-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-SEND-INFO-FOR-MO-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-MT-FORWARD-SHORT-MESSAGE service	-			
Definition	x			Note 26
Service primitives	x			Note 26
Parameter use	x			Note 26
MAP-MT-FORWARD-SM-FOR-VGCS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
Network-Requested PDP Context Activation services	-			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP_SEND_ROU TING_INFO_FOR – GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FAILURE_ REPORT service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_NOTE_MS_ PRESENT_FOR_ GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Location Service Management Services	-			
MAP-SEND-ROU TING-INFO-FOR - LCS Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

[illegible]

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
General		x		
Overview		x		
Underlying services		x		
Model		x		
Conventions		x		
Elements of procedure	-			
Handling of unknown operations	x			
Dialogue establishment	x			
Behaviour at the initiating side	x			
Behaviour at the responding side	x			
Dialogue continuation	x			
Load control		x		
Procedures for MAP specific services	x			
Service invocation for unsecured dialogues		x		
Service invocation for secured dialogues		x		
Service invocation receipt for unsecured dialogues		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Service invocation receipt for secured dialogues		x		
Handling of components received from TC		x		
SDL descriptions			x	
Mapping on to TC services		x		
Dialogue control		x		
Directly mapped parameters	x			
Use of other parameters of dialogue handling primitives	-			
Dialogue Id	x			
Application-context-name	x			
User information	x			
Component present	x			
Termination	x			
P-Abort-Cause	x			
Quality of service	x			
Service specific procedures	x			
Directly mapped parameters	x			
Use of other parameters of component handling primitives	x			
Dialogue Id	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Class	x			
Linked Id	x			
Operation			x	Note 3
Error	x			
Parameters	x			
Time out	x			
Last component	x			
Problem code	x			
Mapping to MAP User Error	x			
Mapping to MAP Provider Error parameter	x			
Mapping to diagnostic parameter	x			
Abstract syntax of the MAP protocol	-			
General	x			
Encoding rules	x			
Use of TC	x			
Use of Global Operation and Error codes defined outside MAP		x		
Use of information elements defined outside MAP		x		
Compatibility considerations			x	Note 13 , Note 20 , Note 21
Structure of the Abstract Syntax of MAP			x	Note 3
Application Contexts			x	



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Operation packages			x	
General aspects	x			
Packages specifications			x	
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
IMSI retrieval	x			
Call control transfer		x		
Secure transport		x		
Void	-			
Interrogation		x		
Void	-			
Handover Control		x		
Subscriber Data management stand alone		x		
Equipment management		x		
Subscriber data management		x		
Location register restart		x		
Tracing stand-alone		x		
Functional SS handling		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Tracing		x		
Binding		x		
Unstructured SS handling	x			
MO Short message relay services	x			
Short message gateway services	x			
MT Short message relay services	x			
Void	-			
Message waiting data management		x		
Alerting	x			
Data restoration		x		
Purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Void	-			
Gprs location updating		x		
Gprs Interrogation		x		
Failure reporting		x		
GPRS notifying		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Supplementary Service invocation notification		x		
Set Reporting State		x		
Status Report		x		
Remote User Free		x		
Call Completion		x		
Location service gateway services	x			
Location service enquiry	x			
17.2.2.45A Location service reporting	x			
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling	x			Client side (Consumer) supported
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
MT Short message relay VGCS services	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Application contexts	-			
General aspects	x			
Application context definitions	x			
Void	-			
Location Updating		x		
Location Cancellation		x		
Roaming number enquiry		x		
Void	-			
Location Information Retrieval		x		
Call control transfer		x		
Secure transport		x		
Void	-			
Void	-			
Location registers restart		x		
Handover control		x		
IMSI Retrieval	x			
Equipment Management		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
Stand Alone Subscriber Data Management		x		
Tracing		x		





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Network functional SS handling		x		
Network unstructured SS handling			x	
Short Message Gateway	x			
Mobile originating Short Message Relay	x			
Void	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminating Short Message Relay	x			
MS purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Gprs Location Updating		x		
Gprs Location Information Retrieval		x		
Failure Reporting		x		
GPRS Notifying		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Supplementary Service invocation notification		x		
Reporting		x		
Call Completion		x		
Location Service Gateway		x		
Location Service Enquiry		x		
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling	x			Client side (Consumer) supported
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
Mobile terminating Short Message Relay VGCS	x			
ASN.1 Module for application-context-names			x	Note 3
MAP Dialogue Information	x			Note 18
MAP operation and error codes			x	



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP operations and errors			x	
Mobile Service Operations			x	
Operation and Maintenance Operations			x	Note 19
Call Handling Operations		x		
Supplementary service operations			x	
Short message service operations			x	Note 7 , Note 8 , Note 28
Errors			x	
Group Call operations		x		
Location service operations	x			
Void	-			
MAP constants and data types	-			
Mobile Service data types			x	
Operation and maintenance data types		x		
Call handling data types		x		
Supplementary service data types			x	
Supplementary service codes			x	
Short message data types	x			
Error data types			x	Note 3

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Common data types			x	
Teleservice Codes		x		
Bearer Service Codes		x		
Extension data types			x	
Group Call data types		x		
Location service data types	x			
Void	-			
General on MAP user procedures	-			
Introduction	x			
Common aspects of user procedure descriptions	-			
General conventions		x		
Naming conventions		x		
Convention on primitives parameters		x		
Open service			x	
Close service			x	
Version handling at dialogue establishment		x		
Behaviour at the initiating side		x		
Behaviour at the responding side		x		
Abort Handling		x		
SDL conventions	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Interaction between MAP Provider and MAP Users	x			
Mobility procedures		x		Note 4
Location management Procedures		x		Note 4
Location updating		x		
General	-			
Detailed procedure in the VLR		x		
Detailed procedure in the PVLR		x		
Detailed procedure in the SGSN		x		
Detailed procedure in the HLR		x		
Location Cancellation		x		
General		x		
Detailed procedure in the HLR		x		
Detailed procedure in the VLR		x		
Detailed procedure in the SGSN		x		
Void	-			
MS Purging		x		
General		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the HLR		x		
Handover procedures		x		
General		x		
Handover procedure in MSC-A		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Handover procedure in MSC-B		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Macro Receive_Error_From_HO_CA		x		
Procedure in VLR-B		x		
Fault recovery procedures		x		
VLR fault recovery procedures		x		Note 29
General		x		
Procedure in the VLR		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the HLR		x		
HLR fault recovery procedures		x		
General		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Mobility Management Event notification procedure		x		
General		x		
Procedure in the VLR or SGSN		x		
Procedure in the gsmSCF		x		
HLR Insert Subscriber Data macros		x		
Macro Insert_Subscriber_Data_Framed_HLR		x		
Macro Insert_GPRS_Subscriber_Data_Framed_HLR		x		
Operation and maintenance procedures		x		
General		x		
Tracing Co-ordinator for the VLR		x		
Tracing Co-ordinator for the SGSN		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Subscriber Data Management Co-ordinator for the VLR		x		
Subscriber Data Management Co-ordinator for the SGSN		x		
Tracing procedures		x		
Subscriber tracing activation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber tracing deactivation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data management procedures		x		
Subscriber deletion procedure		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Subscriber data modification procedure		x		
Procedure in the HLR		x		
Procedures in the VLR		x		
Procedures in the SGSN		x		
Subscriber Identity procedure		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Call handling procedures		x		
General		x		
Retrieval of routing information		x		
General		x		
Procedure in the GMSC		x		
Process in the gsmSCF		x		
Procedure in the HLR		x		
Procedure in the VLR to provide a roaming number		x		
Procedure in the VLR to restore subscriber data		x		
Procedure in the VLR to provide subscriber information		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Transfer of call handling		x		
General		x		
Process in the VMSC		x		
Process in the GMSC		x		
Inter MSC Group Call Procedures		x		
General		x		
Process in the Anchor MSC		x		
Process in the Relay MSC		x		
21.4A A Inter MSC Group Call Info Retrieval		x		
21.4A.1 General		x		
21.4A.2 Process in the MSC		x		
Void	-			
CCBS: monitoring and reporting the status of the subscriber		x		
Reporting co-ordinator process in the VLR		x		
Setting the reporting state stand-alone		x		
Process in the HLR		x		
Process in the VLR		x		
Status Reporting		x		
Process in the VLR		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Process in the HLR		x		
CCBS: Remote User Free		x		
Process in the HLR		x		
Process in the VLR		x		
Void	-			
Void	-			
Immediate Service Termination (IST)		x		
IST Alert		x		
Procedure in the MSC		x		
Procedure in the HLR		x		
IST Command		x		
Procedure in the HLR		x		
Procedure in the MSC		x		
Resource Management		x		
General 659		x		
Process in the GMSC		x		
Process in the VMSC		x		
Supplementary services procedures		x		
Supplementary service co-ordinator processes		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Supplementary service co-ordinator process for the MSC		x		
Void	-			
Functional supplementary service co-ordinator process for the HLR		x		
Call completion supplementary service co-ordinator process for the HLR		x		
Registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Erasure procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Activation procedure		x		
General		x		
Procedure in the MSC		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the VLR		x		
Procedure in the HLR		x		
Deactivation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
Interrogation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedure in the HLR		x		
Void	-			
Password registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Mobile Initiated USSD procedure			x	
General		x		
Procedure in the MSC		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedures in the gsmSCF/secondary HLR		x		
Network initiated USSD procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedure in the gsmSCF or secondary HLR		x		
Common macros for clause 22		x		
SS Password handling macros		x		
Void	-			
Supplementary Service Invocation Notification procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the gsmSCF		x		
Activation of a CCBS request		x		
General		x		
Procedure in the VLR		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the HLR		x		
Deactivation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Short message service procedures	-			
General	x			
Mobile originated short message service Co-ordinator for the MSC		x		
Short message Gateway Co-ordinator for the HLR		x		
The mobile originated short message transfer procedure	x			
Procedure in the serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Inter working MSC (SMS-IW MSC)	x			
The mobile terminated short message transfer procedure	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the Serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Router		x		
Procedure in the IP-SM-GW		x		
The Short Message Alert procedure		x		
Procedure in the Serving MSC - the MS has memory available		x		
Procedures in the VLR		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedures in the SGSN		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		





Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure in the HLR		x		
Procedure in the SMS Interworking MSC	x			
The SM delivery status report procedure		x		
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the IP-SM-GW		x		
The macro Report_SM_Delivery_Stat_HLR		x		
The mobile terminated short message transfer procedure for VGCS	x			
Procedure in the SMS-GMSC	x			
Procedure in the Anchor MSC	x			
GPRS process description		x		
Procedure for retrieval of routing information for GPRS		x		
Process in the GGSN		x		
Process in the HLR		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Procedure for reporting failure to establish a network requested PDP context		x		
Process in the GGSN		x		
Process in the HLR		x		
Procedure for reporting that an MS has become reachable for GPRS		x		
Process in the HLR		x		
Process in the GGSN for Note Ms Present For Gprs		x		
CSE interrogation and control of subscriber data		x		
General			x	
Any Time Subscription Interrogation procedure			-	
General			x	smSCF side supported
Process in the gsmSCF	x			
Process in the HLR		x		
Any Time Modification procedure			-	
General			x	smSCF side supported



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Process in the gsmSCF	x			
Process in the HLR		x		
Subscriber Data Modification Notification procedure		x		
General		x		
Process in the HLR		x		
Process in the gsmSCF		x		
Any Time Interrogation procedure	-			
General	x			
Process in the gsmSCF	x			
Process in the HLR	x			
Process in the GMLC	x			
Location Service process description			x	Note 16
Routeing information retrieval procedure for LCS			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the HLR		x		
Provide Subscriber Location procedure			x	Note 16
General			x	Note 16

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Process in the GMLC	x			
Process in the MSC		x		
Process in the SGSN		x		
Subscriber Location Report procedure			x	Note 16
General			x	Note 16
Process in the MSC		x		
Process in the SGSN		x		
Process in the GMLC	x			

## 2.4 3GPP TS 29.002 Mobile Application Part (MAP) Specification, Version 9.3.0

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Scope	-			
References	-			
Abbreviations	-			
Void	-			
Overload and compatibility overview	-			
Overload control		x		
Overload control for MSC (outside MAP)		x		
Overload control for MAP entities		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Congestion control for Signalling System No. 7		x		
Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			
Proposed method			x	Note 6
Managing the version look-up table			x	Note 6
Optimizing the method			x	Note 6
Requirements concerning the use of SCCP and TC	-			
Use of SCCP	x			Note 1
SCCP Class	x			Note 1
Sub-System Number (SSN)	x			Note 1
SCCP addressing	-			
Introduction	x			Note 1
The Mobile-services Switching Centre (MSC)	x			Note 1
MSC interaction during handover or relocation		x		
MSC for short message routing	x			Note 1
MSC for location request routing	x			
MSC for LMU control		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		
After location updating completion		x		
VLR restoration		x		
During Network-Requested PDB Context Activation		x		
Before GPRS location updating completion		x		
After GPRS location updating completion		x		
Query for a Location Request	x			
The Visitor Location Register (VLR)		x		
Inter-VLR information retrieval		x		
HLR request		x		
The Interworking MSC (IWMSC) for Short Message Service	x			Note 1
The Equipment Identity Register (EIR)		x		
Void	-			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
The Serving GPRS Support Node (SGSN)		x		
The Gateway GPRS Support Node (GGSN)		x		
The Gateway MSC (GMSC) for Short Message Service	x			
Void	-			
Void	-			
Void	-			
The Gateway Mobile Location Centre (GMLC)	x			
Summary table			x	Note 3
Use of TC	x			
General on MAP services	-			
Terminology and definitions	x			
Modelling principles	x			
Common MAP services	x			
MAP-OPEN service	x			
MAP-CLOSE service	x			
MAP-DELIMITER service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
Void	-			
Sequencing of services	x			
General rules for mapping of services onto TC	x			
Mapping of common services	x			
Mapping of user specific services	x			
Definition of parameters	x			
Common parameters	-			
Invoke Id	x			
Linked Id	x			
Provider error	x			
User error	x			Note 3 , Note 17
All Information Sent	x			
Numbering and identification parameters	-			
IMSI	x			
TMSI		x		
IMEI	x			
IMEISV		x		
Previous location area Id		x		
Stored location area Id		x		
Current location area Id		x		





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		
Void	-			
Originating entity number		x		
MSC number	x			
Target MSC number		x		
HLR number	x			
VLR number	x			
HLR Id		x		
LMSI	x			
MS ISDN	x			
OMC Id		x		
Roaming number		x		
Relocation Number List		x		
Void	-			
Handover number		x		
Forwarded-to number		x		
Long forwarded-to number		x		
Long FTN Supported	x			
Forwarded-to subaddress		x		
Called number	x			
Calling number	x			
Originally dialled number		x		
Service centre address	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Zone Code		x		
MSIsdn-Alert	x			
Location Information			x	Note 22
Location Information for GPRS			x	Note 22
Location Information EPS			x	Note 30
User CSG Info			x	Note 31
GMSC Address	x			
VMSC Address	x			
Group Id		x		
North American Equal Access preferred Carrier Id	x			
Void	-			
Void	-			
Serving cell Id		x		
SGSN number		x		
SGSN address		x		
GGSN address		x		
GGSN number		x		
APN		x		
Network Node number	x			
PDP-Type			x	Note 22
PDP-Address			x	Note 22
EXT PDP-Type			x	Note 32
EXT PDP-Addresses			x	Note 22
IMS VOICE OVER PS SESSION IND			x	Note 33
LAST UE ACTIVITY TIME			x	Note 33



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
LAST RAT TYPE			x	Note 33
Additional number	x			
P-TMSI		x		
B-subscriber number		x		
B-subscriber subaddress		x		
LMU Number		x		
MLC Number	x			
Multicall Bearer Information		x		
Multiple Bearer Requested		x		
Multiple Bearer Not Supported		x		
PDP-Charging Characteristics		x		
Selected RAB ID		x		
RAB ID		x		
gsmSCF Address			x	Note 15
V-GMLC Address			x	Note 14
Void	-			
H-GMLC Address	x			
PPR Address	x			
Routeing Number			x	Note 22
Additional V-GMLC Address	x			
Subscriber management parameters	-			
Category		x		
Equipment status		x		
BMUEF		x		
Extensible Bearer service		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Extensible Teleservice		x		
Extensible Basic Service Group		x		
GSM bearer capability	x			
Subscriber Status		x		
CUG Outgoing Access indicator	x			
Operator Determined Barring General Data		x		
ODB HPLMN Specific Data		x		
Regional Subscription Data		x		
Regional Subscription Response		x		
Roaming Restriction Due To Unsupported Feature		x		
Extensible SS-Info		x		
Extensible forwarding information		x		
Extensible forwarding feature		x		
Extensible SS-Status		x		
Extensible Forwarding Options		x		
Extensible No reply condition timer		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Extensible Call barring information		x		
Extensible Call barring feature		x		
CUG info		x		
CUG subscription		x		
CUG interlock	x			
CUG index		x		
CUG feature		x		
Inter CUG options		x		
Intra CUG restrictions		x		
Extensible SS-Data		x		
Subscriber State	x			
Requested Info	x			
Requested Domain	x			
Suppression of Announcement	x			
Suppress T-CSI	x			
GMSC CAMEL Subscription Info	x			
VLR CAMEL Subscription Info		x		
Supported CAMEL Phases in the VLR		x		
Supported CAMEL Phases in the SGSN		x		
Offered CAMEL4 CSIs in the VLR		x		
Offered CAMEL4 CSIs in the SGSN		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Offered CAMEL4 CSIs	x			
Offered CAMEL4 CSIs in GMSC		x		
Offered CAMEL4 CSIs in VMSC		x		
Offered CAMEL4 Functionalities		x		
Supported CAMEL Phases	x			
Supported CAMEL Phases in interrogating node		x		
CUG Subscription Flag	x			
CAMEL Subscription Info Withdraw		x		
Voice Group Call Service (VGCS) Data		x		
Voice Broadcast Service (VBS) Data		x		
ISDN bearer capability		x		
Lower layer Compability		x		
High Layer Compability		x		
Alerting Pattern	x			
GPRS Subscription Data Withdraw		x		
GPRS Subscription Data		x		
QoS-Subscribed		x		
VPLMN address allowed		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Roaming Restricted In SGSN Due To Unsupported Feature		x		
Network Access Mode		x		
Mobile Not Reachable Reason		x		
Cancellation Type		x		
All GPRS Data		x		
Complete Data List Included		x		
PDP Context Identifier		x		
LSA Information		x		
SoLSA support indicator		x		
LSA Information Withdraw		x		
LMU Indicator		x		
LCS information		x		
GMLC List		x		
LCS Privacy Exception List		x		
Additional LCS Privacy Exception List		x		
LCS Privacy Exception Parameters		x		
External Client List		x		
Internal Client List		x		
MO-LR List		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Privacy Notification to MS User		x		
GMLC List Withdraw		x		
Service Type List		x		
IST Alert Timer	x			
Call Termination Indicator		x		
IST Information Withdraw		x		
IST Support Indicator	x			
Super-Charger Supported In HLR		x		
Super-Charger Supported In Serving Network Entity		x		
Age Indicator		x		
GPRS enhancements support indicator		x		
Extension QoS-Subscribed			x	Note 22
SGSN CAMEL Subscription Info		x		
Extension-2 QoS-Subscribed			x	Note 22
Extension-3 QoS-Subscribed			x	Note 22
Extension-4 QoS-Subscribed			x	Note 22
MO-SMS-CSI		x		
MT-SMS-CSI		x		
GPRS-CSI		x		
CAMEL subscription info		x		





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Extensible Call barring information for CSE		x		
Extensible Forwarding information for CSE		x		
Modification Request for CSI		x		
Modification Request for ODB data		x		
Modification Request for SS Information		x		
Call Barring Data		x		
Call Forwarding Data		x		
ODB Data		x		
Requested Subscription Info		x		
CS Allocation/Retention priority		x		
ODB Info		x		
Suppress VT-CSI	x			
Suppress Incoming Call Barring	x			
gsmSCF Initiated Call	x			
Suppress MTSS	x			
Call barring support indicator		x		
MNP Info Result			x	Note 22
Allowed Services	x			
Unavailability Cause	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MNP Requested Info	x			
Access Restriction Data		x		
Supported RAT types indicator		x		
Supplementary services parameters	-			
SS-Code		x		
SS-Code 2		x		
SS-Status		x		
SS-Data		x		
Override Category		x		
CLI Restriction Option		x		
Forwarding Options		x		
No reply condition timer		x		
Void		x		
Forwarding information		x		
Forwarding feature		x		
Void		x		
Call barring information		x		
Call barring feature		x		
New password		x		
Current password		x		
Guidance information		x		
Void		x		
SS-Info		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Void		x		
USSD Data Coding Scheme	x			
USSD String	x			
Bearer service		x		
Bearer Service 2		x		
Teleservice		x		
Teleservice 2		x		
Basic Service Group	x			
eMLPP information		x		
SS-event		x		
SS-event data		x		
LCS Privacy Exceptions		x		
Mobile Originating Location Request (MO-LR)		x		
NbrUser		x		
MC Subscription Data		x		
MC Information		x		
CCBS Request State		x		
Basic Service Group 2	x			
Call parameters	-			
Call reference number	x			
Interrogation type	x			
OR interrogation	x			
OR capability	x			
Forwarding reason	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Forwarding interrogation required	x			
O-CSI	x			
D-CSI	x			
T-CSI		x		
VT-CSI		x		
O-IM-CSI		x		
D-IM-CSI		x		
VT-IM-CSI		x		
Void	-			
Void	-			
Void	-			
CCBS Feature		x		
UU Data	x			
UUS CF Interaction	x			
Number Portability Status			x	Note 22
Pre-paging supported	x			
MT Roaming Retry Supported	x			
MT Roaming Retry	x			
Paging Area		x		
Call Priority	x			
Radio parameters		x		
Void		x		
GERAN Classmark		x		
BSSMAP Service Handover		x		
BSSMAP Service Handover List		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
RANAP Service Handover		x		
HO-Number Not Required		x		
Integrity Protection Information		x		
Encryption Information		x		
Radio Resource Information		x		
Radio Resource List		x		
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		
Allowed GSM Algorithms		x		
Allowed UMTS Algorithms		x		
Selected GSM Algorithm		x		
Iu-Currently Used Codec		x		
Iu-Supported Codecs List		x		
Iu-Available Codecs List		x		
Iu-Selected Codec		x		
RAB Configuration Indicator		x		
UESBI-Iu		x		
Alternative Channel Type		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Authentication parameters		x		
Authentication set list	x			
Rand	x			
Sres	x			
Kc	x			
Xres	x			
Ck	x			
Ik	x			
Autn	x			
Cksn		x		
Ksi		x		
Auts		x		
Ciphering mode		x		
Current Security Context		x		
Failure cause		x		
Re-attempt		x		
Access Type		x		
Short message parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
MWD status	x			
SM-RP-UI	x			
SM-RP-PRI	x			
SM Delivery Outcome	x			
More Messages To Send	x			
Alert Reason		x		
Absent Subscriber Diagnostic SM	x			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Alert Reason Indicator		x		
Additional Alert Reason Indicator		x		
Additional SM Delivery Outcome	x			
Additional Absent Subscriber Diagnostic SM	x			
Delivery Outcome Indicator	x			
GPRS Node Indicator	x			
GPRS Support Indicator	x			
SM-RP-MTI	x			
SM-RP-SMEA	x			
IP-SM-GW SM Delivery Outcome	x			
IP-SM-GW Absent Subscriber Diagnostic SM	x			
IP-SM-GW Indicator	x			
Access and signalling system related parameters		x		
AN-apdu		x		
CM service type		x		
Access connection status		x		
External Signal Information	x			
Access signalling information		x		
Location update type		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Protocol ID	x			
Network signal information	x			
Network signal information 2	x			
Call Info		x		
Additional signal info	x			
System operation s parameters		x		
Network resources			x	Note 23
Trace reference		x		
Trace reference 2		x		
Trace type		x		
Additional network resources			x	Note 24
Trace depth list		x		
Trace NE type list		x		
Trace interface list		x		
Trace event list		x		Note 25
Trace support indicator		x		Note 25
Location Service Parameters	-			
Age of Location Estimate	x			
Deferred MT-LR Response Indicator	x			
Deferred MT-LR Data	x			
LCS Client ID	x			
LCS Event	x			
Void	-			





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
LCS Priority	x			
LCS QoS	x			
CS LCS Not Supported by UE		x		
PS LCS Not Supported by UE		x		
Location Estimate	x			
GERAN Positioning Data	x			
UTRAN Positioning Data	x			
GERAN GANSS Positioning Data	x			
UTRAN GANSS Positioning Data	x			
Location Type	x			
NA-ESRD	x			
NA-ESRK	x			
LCS Service Type Id	x			
Privacy Override	x			
Supported LCS Capability Sets			x	Note 14
LCS Codeword	x			
NA-ESRK Request	x			
Supported GAD Shapes	x			
Additional Location Estimate	x			
Cell Id Or SAI	x			
LCS-Reference Number	x			
LCS Privacy Check	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Additional LCS Capability Sets	x			
Area Event Info	x			
Velocity Estimate	x			
Accuracy Fulfilment Indicator	x			
MO-LR Short Circuit Indicator	x			
Target Serving Node for handover	x			
Reporting PLMN List	x			
Periodic LDR information	x			
Sequence Number	x			
Secure Transport Parameters		x		
Security Header		x		
Representation of a list of a basic parameter in service-primitives	x			
Mobility services	-			
Location management services	-			
Void	-			
Void	-			
Void	-			
Void	-			
MAP_UPDATE_LOCATION service		x		
Definition		x		
Service primitives		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Parameter definitions and use		x		
MAP_CANCEL_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEND_IDENTIFICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Void		x		
Void		x		
Void		x		
Void		x		
MAP_PURGE_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_UPDATE_GPRS_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP-NOTE-MM-EVENT		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Paging and search	-			
MAP_PAGE service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEARCH_F OR_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Access management services	-			
MAP_PROCESS_ACCESS_REQUEST service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Handover services		x		
MAP_PREPARE_HANDOVER service		x		
Definition		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
MAP_SEND_END _SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PROCESS_ ACCESS_  SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_FORWARD_ ACCESS_  SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PREPARE_ SUBSEQUENT_  HANDOVER		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ALLOCATE_ HANDOVER_  NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP_SEND_HAN DOVER_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Authentication management services	-			
MAP_AUTHENTI CATE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_SEND_AUT HENTICATION_ INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_AUTHENTI CATION_FAILUR E_ REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Security manage ment services	-			
MAP_SET_CIPHE RING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
International mobile equipment identities management services	-			
MAP_CHECK_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_OBTAIN_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Subscriber management services	-			
MAP-INSERT-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Basic service information related to supplementary services		x		
MAP-DELETE-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Identity management services	-			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP-PROVIDE-I MSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-FORWARD-NEW-TMSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Fault recovery services	-			
MAP_RESET service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FORWARD_CHECK_SS_ INDICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_RESTORE_ DATA service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Subscriber Information services	-			
MAP-ANY-TIME-INTERROGATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
MAP-PROVIDE-SUBSCRIBER-INFO service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
MAP-ANY-TIME-SUBSCRIPTION-INTERROGATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP-ANY-TIME-MODIFICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP-NOTE-SU BSCRIBER-DA TA-MODIFIED service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Operation and maintenance services	-			
Subscriber tracing services	-			
MAP-ACTIVATE -TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-DEACTIVA TE-TRACE-MOD E service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-TRACE-SU BSCRIBER- ACTIVITY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Other operation and maintenance services	-			
MAP-SEND-IMSI service	-			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Definition	x			
Service primitives	x			
Parameter use	x			
Call handling services	-			
MAP_SEND_ROUTING_INFORMATION service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_PROVIDE_ROAMING_NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_RESUME_CALL_HANDLING service	x			
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_PREPARE_GROUP_CALL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_PROCESS_GROUP_CALL_SIGNALLING service		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FORWARD_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEND_GROUP_CALL_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7A MAP_SEND_GROUP_CALL_INFO service		x		
10.7A.1 Definitions		x		
10.7A.2 Service primitives		x		
10.7A.3 Parameter definitions and use		x		
Void		x		
Void		x		
MAP_SET_REPORTING_STATE service.		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_STATUS_R EPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_REMOT E_USER_FREE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_IST_ALERT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_IST_COMM AND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_RELEAS E_RESOURCES service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Supplementary services related services	-			
MAP_REGISTER _SS service		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ERASE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_DEACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_INTERROGATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Void	-			
MAP_REGISTER_PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_GET_PASSWORD service		x		
Definition		x		
Service primitives		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Parameter use		x		
MAP_PROCESS_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_UNSTRUCTURED_SS_NOTIFY service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_SS_INVOCATION_NOTIFY		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_REGISTER_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_ERASE_CC_ENTRY service		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
Short message service management services	-			
MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7 , Note 26
Service primitives			x	Note 7 , Note 26
Parameter use	x			Note 26
MAP-MO-FORWARD-SHORT-MESSAGE service	-			
Definition	x			Note 9 , Note 17 , Note 26
Service primitives	x			Note 9 , Note 17 , Note 26
Parameter use	x			Note 17 , Note 26
MAP-REPORT-SM-DELIVERY-STATUS service	-			
Definition	x			Note 9 , Note 26
Service primitives	x			Note 9 , Note 26
Parameter use	x			
MAP-READY-FOR-SM service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-ALERT-SERVICE-CENTRE service	-			
Definition	x			Note 8 , Note 26





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Service primitives	x			Note 8 , Note 26
Parameter use	x			
MAP-INFORM-SERVICE-CENTRE service	-			
Definition	x			Note 7 , Note 26
Service primitives	x			Note 7 , Note 26
Parameter use	x			
MAP-SEND-INFO-FOR-MT-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-SEND-INFO-FOR-MO-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-MT-FORWARD-SHORT-MESSAGE service	-			
Definition	x			Note 26
Service primitives	x			Note 26
Parameter use	x			Note 26
MAP-MT-FORWARD-SM-FOR-VGCS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
Network-Requested PDP Context Activation services	-			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP_SEND_ROU TING_INFO_FOR – GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FAILURE_ REPORT service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_NOTE_MS_ PRESENT_FOR_ GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Location Service Management Services	-			
MAP-SEND-ROU TING-INFO-FOR – LCS Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

[illegible]

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
General		x		
Overview		x		
Underlying services		x		
Model		x		
Conventions		x		
Elements of procedure	-			
Handling of unknown operations	x			
Dialogue establishment	x			
Behaviour at the initiating side	x			
Behaviour at the responding side	x			
Dialogue continuation	x			
Load control		x		
Procedures for MAP specific services	x			
Service invocation for unsecured dialogues		x		
Service invocation for secured dialogues		x		
Service invocation receipt for unsecured dialogues		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Service invocation receipt for secured dialogues		x		
Handling of components received from TC		x		
SDL descriptions			x	
Mapping on to TC services		x		
Dialogue control		x		
Directly mapped parameters	x			
Use of other parameters of dialogue handling primitives	-			
Dialogue Id	x			
Application-context-name	x			
User information	x			
Component present	x			
Termination	x			
P-Abort-Cause	x			
Quality of service	x			
Service specific procedures	x			
Directly mapped parameters	x			
Use of other parameters of component handling primitives	x			
Dialogue Id	x			
Class	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Linked Id	x			
Operation			x	Note 3
Error	x			
Parameters	x			
Time out	x			
Last component	x			
Problem code	x			
Mapping to MAP User Error	x			
Mapping to MAP Provider Error parameter	x			
Mapping to diagnostic parameter	x			
Abstract syntax of the MAP protocol	-			
General	x			
Encoding rules	x			
Use of TC	x			
Use of Global Operation and Error codes defined outside MAP		x		
Use of information elements defined outside MAP		x		
Compatibility considerations			x	Note 13 , Note 20 , Note 21
Structure of the Abstract Syntax of MAP			x	Note 3
Application Contexts			x	



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Operation packages			x	
General aspects	x			
Packages specifications			x	
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
IMSI retrieval	x			
Call control transfer		x		
Secure transport		x		
Void	-			
Interrogation		x		
Void	-			
Handover Control		x		
Subscriber Data management stand alone		x		
Equipment management		x		
Subscriber data management		x		
Location register restart		x		
Tracing stand-alone		x		
Functional SS handling		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Tracing		x		
Binding		x		
Unstructured SS handling	x			
MO Short message relay services	x			
Short message gateway services	x			
MT Short message relay services	x			
Void	-			
Message waiting data management		x		
Alerting	x			
Data restoration		x		
Purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Void	-			
Gprs location updating		x		
Gprs Interrogation		x		
Failure reporting		x		
GPRS notifying		x		





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Supplementary Service invocation notification		x		
Set Reporting State		x		
Status Report		x		
Remote User Free		x		
Call Completion		x		
Location service gateway services	x			
Location service enquiry	x			
17.2.2.45A Location service reporting	x			
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
MT Short message relay VGCS services	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Application contexts	-			
General aspects	x			
Application context definitions	x			
Void	-			
Location Updating		x		
Location Cancellation		x		
Roaming number enquiry		x		
Void	-			
Location Information Retrieval		x		
Call control transfer		x		
Secure transport		x		
Void	-			
Void	-			
Location registers restart		x		
Handover control		x		
IMSI Retrieval	x			
Equipment Management		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
Stand Alone Subscriber Data Management		x		
Tracing		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Network functional SS handling		x		
Network unstructured SS handling			x	
Short Message Gateway	x			
Mobile originating Short Message Relay	x			
Void	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminating Short Message Relay	x			
MS purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Gprs Location Updating		x		
Gprs Location Information Retrieval		x		
Failure Reporting		x		
GPRS Notifying		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Supplementary Service invocation notification		x		
Reporting		x		
Call Completion		x		
Location Service Gateway		x		
Location Service Enquiry		x		
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
Mobile terminating Short Message Relay VGCS	x			
ASN.1 Module for application-context-names			x	Note 3
MAP Dialogue Information	x			Note 18
MAP operation and error codes			x	



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP operations and errors			x	
Mobile Service Operations			x	
Operation and Maintenance Operations			x	Note 19
Call Handling Operations		x		
Supplementary service operations			x	
Short message service operations			x	Note 7 , Note 8 , Note 28
Errors			x	
Group Call operations		x		
Location service operations	x			
Void	-			
MAP constants and data types	-			
Mobile Service data types			x	
Operation and maintenance data types		x		
Call handling data types		x		
Supplementary service data types			x	
Supplementary service codes			x	
Short message data types	x			
Error data types			x	Note 3
Common data types			x	

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Teleservice Codes		x		
Bearer Service Codes		x		
Extension data types			x	
Group Call data types		x		
Location service data types	x			
Void	-			
General on MAP user procedures	-			
Introduction	x			
Common aspects of user procedure descriptions	-			
General conventions		x		
Naming conventions		x		
Convention on primitives parameters		x		
Open service			x	
Close service			x	
Version handling at dialogue establishment		x		
Behaviour at the initiating side		x		
Behaviour at the responding side		x		
Abort Handling		x		
SDL conventions	-			
Interaction between MAP Provider and MAP Users	x			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Mobility procedures		x		Note 4
Location management Procedures		x		Note 4
Location updating		x		
General	-			
Detailed procedure in the VLR		x		
Detailed procedure in the PVLR		x		
Detailed procedure in the SGSN		x		
Detailed procedure in the HLR		x		
Location Cancellation		x		
General		x		
Detailed procedure in the HLR		x		
Detailed procedure in the VLR		x		
Detailed procedure in the SGSN		x		
Void	-			
MS Purging		x		
General		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Procedure in the HLR		x		
Handover procedures		x		
General		x		
Handover procedure in MSC-A		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Handover procedure in MSC-B		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Macro Receive_Error_From_HO_CA		x		
Procedure in VLR-B		x		
Fault recovery procedures		x		
VLR fault recovery procedures		x		Note 29
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
HLR fault recovery procedures		x		
General		x		





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Mobility Management Event notification procedure		x		
General		x		
Procedure in the VLR or SGSN		x		
Procedure in the gsmSCF		x		
HLR Insert Subscriber Data macros		x		
Macro Insert_Sub s_Data_Framed_HLR		x		
Macro Insert_GP RS_Sub s_Data_F ramed_HLR		x		
Operation and maintenance procedures		x		
General		x		
Tracing Co-ordinator for the VLR		x		
Tracing Co-ordinator for the SGSN		x		
Subscriber Data Management Co-ordinator for the VLR		x		
Subscriber Data Management Co-ordinator for the SGSN		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Tracing procedures		x		
Subscriber tracing activation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber tracing deactivation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data management procedures		x		
Subscriber deletion procedure		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data modification procedure		x		
Procedure in the HLR		x		
Procedures in the VLR		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Procedures in the SGSN		x		
Subscriber Identity procedure		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Call handling procedures		x		
General		x		
Retrieval of routing information		x		
General		x		
Procedure in the GMSC		x		
Process in the gsmSCF		x		
Procedure in the HLR		x		
Procedure in the VLR to provide a roaming number		x		
Procedure in the VLR to restore subscriber data		x		
Procedure in the VLR to provide subscriber information		x		
Transfer of call handling		x		
General		x		
Process in the VMSC		x		
Process in the GMSC		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Inter MSC Group Call Procedures		x		
General		x		
Process in the Anchor MSC		x		
Process in the Relay MSC		x		
21.4A A Inter MSC Group Call Info Retrieval		x		
21.4A.1 General		x		
21.4A.2 Process in the MSC		x		
Void	-			
CCBS: monitoring and reporting the status of the subscriber		x		
Reporting co-ordinator process in the VLR		x		
Setting the reporting state stand-alone		x		
Process in the HLR		x		
Process in the VLR		x		
Status Reporting		x		
Process in the VLR		x		
Process in the HLR		x		
CCBS: Remote User Free		x		
Process in the HLR		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Process in the VLR		x		
Void	-			
Void	-			
Immediate Service Termination (IST)		x		
IST Alert		x		
Procedure in the MSC		x		
Procedure in the HLR		x		
IST Command		x		
Procedure in the HLR		x		
Procedure in the MSC		x		
Resource Management		x		
General 659		x		
Process in the GMSC		x		Numbered 21.3.3 in Reference [1]
Process in the VMSC		x		Numbered 21.3.2 in Reference [1]
Supplementary services procedures		x		
Supplementary service co-ordinator processes		x		
Supplementary service co-ordinator process for the MSC		x		
Void	-			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Functional supplementary service co-ordinator process for the HLR		x		
Call completion supplementary service co-ordinator process for the HLR		x		
Registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Erasure procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Activation procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Deactivation procedure		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
Interrogation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedure in the HLR		x		
Void	-			
Password registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Mobile Initiated USSD procedure			x	
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Procedures in the gsmSCF/secondary HLR		x		
Network initiated USSD procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedure in the gsmSCF or secondary HLR		x		
Common macros for clause 22		x		
SS Password handling macros		x		
Void	-			
Supplementary Service Invocation Notification procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the gsmSCF		x		
Activation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Deactivation of a CCBS request		x		





Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Short message service procedures	-			
General	x			
Mobile originated short message service Co-ordinator for the MSC		x		
Short message Gateway Co-ordinator for the HLR		x		
The mobile originated short message transfer procedure	x			
Procedure in the serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Inter working MSC (SMS-IWMSC)	x			
The mobile terminated short message transfer procedure	x			
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Procedure in the Serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Router		x		
Procedure in the IP-SM-GW		x		
The Short Message Alert procedure		x		
Procedure in the Serving MSC - the MS has memory available		x		
Procedures in the VLR		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedures in the SGSN		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedure in the HLR		x		
Procedure in the SMS Interworking MSC	x			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
The SM delivery status report procedure		x		
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the IP-SM-GW		x		
The macro Report_SM_Delivery_Stat_HLR		x		
The mobile terminated short message transfer procedure for VGCS	x			
Procedure in the SMS-GMSC	x			
Procedure in the Anchor MSC	x			
GPRS process description		x		
Procedure for retrieval of routing information for GPRS		x		
Process in the GGSN		x		
Process in the HLR		x		
Procedure for reporting failure to establish a network requested PDP context		x		
Process in the GGSN		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Process in the HLR		x		
Procedure for reporting that an MS has become reachable for GPRS		x		
Process in the HLR		x		
Process in the GGSN for Note Ms Present For Gprs		x		
CSE interrogation and control of subscriber data		x		
General		x		
Any Time Subscription Interrogation procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
Any Time Modification procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
Subscriber Data Modification Notification procedure		x		
General		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Process in the HLR		x		
Process in the gsmSCF		x		
Any Time Interrogation procedure	-			
General	x			
Process in the gsmSCF	x			
Process in the HLR	x			
Process in the GMLC	x			
Location Service process description			x	Note 16
Routeing information retrieval procedure for LCS			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the HLR		x		
Provide Subscriber Location procedure			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the MSC		x		
Process in the SGSN		x		
Subscriber Location Report procedure			x	Note 16
General			x	Note 16

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Process in the MSC		x		
Process in the SGSN		x		
Process in the GMLC	x			

## 2.5 3GPP TS 29.002 Mobile Application Part (MAP) Specification, Version 10.8.0

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
1. Scope	-			
2. References	-			
3. Abbreviations	-			
4. Void	-			
5. Overload and compatibility overview	-			
5.1 Overload control		x		
Overload control for MSC (outside MAP)		x		
Overload control for MAP entities		x		
Congestion control for Signalling System No. 7		x		
5.2 Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Proposed method			x	Note 6
Managing the version look-up table			x	Note 6
Optimizing the method			x	Note 6
6. Requirements concerning the use of SCCP and TC	-			
6.1 Use of SCCP	x			Note 1
SCCP Class	x			Note 1
Sub-System Number (SSN)	x			Note 1
SCCP addressing	-			
Introduction	x			Note 1
The Mobile-services Switching Centre (MSC)	x			Note 1
MSC interaction during handover or relocation		x		
MSC for short message routing	x			Note 1
MSC for location request routing	x			
MSC for LMU control		x		
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		
After location updating completion		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
VLR restoration		x		
During Network-Requested PDB Context Activation		x		
Before GPRS location updating completion		x		
After GPRS location updating completion		x		
Query for a Location Request	x			
The Visitor Location Register (VLR)		x		
Inter-VLR information retrieval		x		
HLR request		x		
The Interworking MSC (IWMSC) for Short Message Service	x			Note 1
The Equipment Identity Register (EIR)		x		
Void	-			
The Serving GPRS Support Node (SGSN)		x		
The Gateway GPRS Support Node (GGSN)		x		
The Gateway MSC (GMSC) for Short Message Service	x			
Void	-			
Void	-			





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Void	-			
The Gateway Mobile Location Centre (GMLC)	x			
Summary table			x	Note 3
6.2 Use of TC	x			
7. General on MAP services	-			
7.1 Terminology and definitions	x			
7.2 Modelling principles	x			
7.3 Common MAP services	x			
MAP-OPEN service	x			
MAP-CLOSE service	x			
MAP-DELIMITER service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Void	-			
Void	-			
Void	-			
Void	-			
7.4 Sequencing of services	x			
7.5 General rules for mapping of services onto TC	x			
Mapping of common services	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Mapping of user specific services	x			
7.6 Definition of parameters	x			
Common parameters	-			
Invoke Id	x			
Linked Id	x			
Provider error	x			
User error	x			Note 3 , Note 17
All Information Sent	x			
Numbering and identification parameters	-			
IMSI	x			
TMSI		x		
IMEI	x			
IMEISV		x		
Previous location area Id		x		
Stored location area Id		x		
Current location area Id		x		
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		
Void	-			
Originating entity number		x		
MSC number	x			
Target MSC number		x		
HLR number	x			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
VLR number	x			
HLR Id		x		
LMSI	x			
MS ISDN	x			
OMC Id		x		
Roaming number		x		
Relocation Number List		x		
Void	-			
Handover number		x		
Forwarded-to number		x		
Long forwarded-to number		x		
Long FTN Supported	x			
Forwarded-to subaddress		x		
Called number	x			
Calling number	x			
Originally dialled number		x		
Service centre address	x			
Zone Code		x		
MSISdn-Alert	x			
Location Information			x	Note 22
Location Information for GPRS			x	Note 22
Location Information EPS			x	Note 30
User CSG Info			x	Note 31
GMSC Address	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
VMSC Address	x			
Group Id		x		
North American Equal Access preferred Carrier Id	x			
Void	-			
Void	-			
Serving cell Id		x		
SGSN number		x		
SGSN address		x		
GGSN address		x		
GGSN number		x		
APN		x		
Network Node number	x			
PDP-Type			x	Note 22
PDP-Address			x	Note 22
EXT PDP-Type			x	Note 32
EXT PDP-Addresses			x	Note 22
IMS VOICE OVER PS SESSION IND			x	Note 33
LAST UE ACTIVITY TIME			x	Note 33
LAST RAT TYPE			x	Note 33
Additional number	x			
P-TMSI		x		
B-subscriber number		x		
B-subscriber subaddress		x		
LMU Number		x		
MLC Number	x			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Multicall Bearer Information		x		
Multiple Bearer Requested		x		
Multiple Bearer Not Supported		x		
PDP-Charging Characteristics		x		
Selected RAB ID		x		
RAB ID		x		
gsmSCF Address			x	Note 15
V-GMLC Address			x	Note 14
Void	-			
H-GMLC Address	x			
PPR Address	x			
Routeing Number			x	Note 22
Additional V-GMLC Address	x			
Subscriber management parameters	-			
Category		x		
Equipment status		x		
BMUEF		x		
Extensible Bearer service		x		
Extensible Teleservice		x		
Extensible Basic Service Group		x		
GSM bearer capability	x			
Subscriber Status		x		
CUG Outgoing Access indicator	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Operator Determined Barring General Data		x		
ODB HPLMN Specific Data		x		
Regional Subscription Data		x		
Regional Subscription Response		x		
Roaming Restriction Due To Unsupported Feature		x		
Extensible SS-Info		x		
Extensible forwarding information		x		
Extensible forwarding feature		x		
Extensible SS-Status		x		
Extensible Forwarding Options		x		
Extensible No reply condition timer		x		
Extensible Call barring information		x		
Extensible Call barring feature		x		
CUG info		x		
CUG subscription		x		
CUG interlock	x			
CUG index		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
CUG feature		x		
Inter CUG options		x		
Intra CUG restrictions		x		
Extensible SS-Data		x		
Subscriber State	x			
Requested Info	x			
Requested Domain	x			
Suppression of Announcement	x			
Suppress T-CSI	x			
GMSC CAMEL Subscription Info	x			
VLR CAMEL Subscription Info		x		
Supported CAMEL Phases in the VLR		x		
Supported CAMEL Phases in the SGSN		x		
Offered CAMEL4 CSIs in the VLR		x		
Offered CAMEL4 CSIs in the SGSN		x		
Offered CAMEL4 CSIs	x			
Offered CAMEL4 CSIs in GMSC		x		
Offered CAMEL4 CSIs in VMSC		x		
Offered CAMEL4 Functionalities		x		
Supported CAMEL Phases	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Supported CAMEL Phases in interrogating node		x		
CUG Subscription Flag	x			
CAMEL Subscription Info Withdraw		x		
Voice Group Call Service (VGCS) Data		x		
Voice Broadcast Service (VBS) Data		x		
ISDN bearer capability		x		
Lower layer Compability		x		
High Layer Compability		x		
Alerting Pattern	x			
GPRS Subscription Data Withdraw		x		
GPRS Subscription Data		x		
QoS-Subscribed		x		
VPLMN address allowed		x		
Roaming Restricted In SGSN Due To Unsupported Feature		x		
Network Access Mode		x		
Mobile Not Reachable Reason		x		
Cancellation Type		x		





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
All GPRS Data		x		
Complete Data List Included		x		
PDP Context Identifier		x		
LSA Information		x		
SoLSA support indicator		x		
LSA Information Withdraw		x		
LMU Indicator		x		
LCS information		x		
GMLC List		x		
LCS Privacy Exception List		x		
Additional LCS Privacy Exception List		x		
LCS Privacy Exception Parameters		x		
External Client List		x		
Internal Client List		x		
MO-LR List		x		
Privacy Notification to MS User		x		
GMLC List Withdraw		x		
Service Type List		x		
IST Alert Timer	x			
Call Termination Indicator		x		
IST Information Withdraw		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
IST Support Indicator	x			
Super-Charger Supported In HLR		x		
Super-Charger Supported In Serving Network Entity		x		
Age Indicator		x		
GPRS enhance ments support indicator		x		
Extension QoS-Subscribed			x	Note 22
SGSN CAMEL Subscription Info		x		
Extension-2 QoS-Subscribed			x	Note 22
Extension-3 QoS-Subscribed			x	Note 22
Extension-4 QoS-Subscribed			x	Note 22
MO-SMS-CSI		x		
MT-SMS-CSI		x		
GPRS-CSI		x		
CAMEL subscripti on info		x		
Extensible Call barring information for CSE		x		
Extensible Forwarding information for CSE		x		
Modification Request for CSI		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Modification Request for ODB data		x		
Modification Request for SS Information		x		
Call Barring Data		x		
Call Forwarding Data		x		
ODB Data		x		
Requested Subscription Info		x		
CS Allocation/Retention priority		x		
ODB Info		x		
Suppress VT-CSI	x			
Suppress Incoming Call Barring	x			
gsmSCF Initiated Call	x			
Suppress MTSS	x			
Call barring support indicator		x		
MNP Info Result			x	Note 22
Allowed Services	x			
Unavailability Cause	x			
MNP Requested Info	x			
Access Restriction Data		x		
Supported RAT types indicator		x		
Supplementary services parameters	-			
SS-Code		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
SS-Code 2		x		
SS-Status		x		
SS-Data		x		
Override Category		x		
CLI Restriction Option		x		
Forwarding Options		x		
No reply condition timer		x		
Void		x		
Forwarding information		x		
Forwarding feature		x		
Void		x		
Call barring information		x		
Call barring feature		x		
New password		x		
Current password		x		
Guidance information		x		
Void		x		
SS-Info		x		
Void		x		
USSD Data Coding Scheme	x			
USSD String	x			
Bearer service		x		
Bearer Service 2		x		
Teleservice		x		
Teleservice 2		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Basic Service Group	x			
eMLPP information		x		
SS-event		x		
SS-event data		x		
LCS Privacy Exceptions		x		
Mobile Originating Location Request (MO-LR)		x		
NbrUser		x		
MC Subscription Data		x		
MC Information		x		
CCBS Request State		x		
Basic Service Group 2	x			
Call parameters	-			
Call reference number	x			
Interrogation type	x			
OR interrogation	x			
OR capability	x			
Forwarding reason	x			
Forwarding interrogation required	x			
O-CSI	x			
D-CSI	x			
T-CSI		x		
VT-CSI		x		
O-IM-CSI		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
D-IM-CSI		x		
VT-IM-CSI		x		
Void	-			
Void	-			
Void	-			
CCBS Feature		x		
UU Data	x			
UUS CF Interacti on	x			
Number Portabili ty Status			x	Note 22
Pre-paging supported	x			
MT Roaming Retry Supported	x			
MT Roaming Retry	x			
Paging Area		x		
Call Priority	x			
Radio parameters		x		
Void		x		
GERAN Classmar k		x		
BSSMAP Service Handover		x		
BSSMAP Service Handover List		x		
RANAP Service Handover		x		
HO-Number Not Required		x		
Integrity Protecti on Information		x		
Encryption Information		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Radio Resource Information		x		
Radio Resource List		x		
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		
Allowed GSM Algorithms		x		
Allowed UMTS Algorithms		x		
Selected GSM Algorithm		x		
Iu-Currently Used Codec		x		
Iu-Supported Codecs List		x		
Iu-Available Codecs List		x		
Iu-Selected Codec		x		
RAB Configuration Indicator		x		
UESBI-Iu		x		
Alternative Channel Type		x		
Authentication parameters		x		
Authentication set list	x			
Rand	x			
Sres	x			
Kc	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Xres	x			
Ck	x			
Ik	x			
Autn	x			
Cksn		x		
Ksi		x		
Auts		x		
Ciphering mode		x		
Current Security Context		x		
Failure cause		x		
Re-attempt		x		
Access Type		x		
Short message parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
MWD status	x			
SM-RP-UI	x			
SM-RP-PRI	x			
SM Delivery Outcome	x			
More Messages To Send	x			
Alert Reason		x		
Absent Subscriber Diagnostic SM	x			
Alert Reason Indicator		x		
Additional Alert Reason Indicator		x		
Additional SM Delivery Outcome	x			





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Additional Absent Subscriber Diagnostic SM	x			
Delivery Outcome Indicator	x			
GPRS Node Indicator	x			
IP-SM-GW GUIDANCE	x			Note 34
GPRS Support Indicator	x			
SM-RP-MTI	x			
SM-RP-SMEA	x			
IP-SM-GW-GUIDANCE SUPPORT INDICATOR	x			Note 34
IP-SM-GW SM Delivery Outcome	x			
IP-SM-GW Absent Subscriber Diagnostic SM	x			
IP-SM-GW Indicator	x			
Access and signalling system related parameters		x		
AN-apdu		x		
CM service type		x		
Access connection status		x		
External Signal Information	x			
Access signalling information		x		
Location update type		x		
Protocol ID	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Network signal information	x			
Network signal information 2	x			
Call Info		x		
Additional signal info	x			
System operation s parameters		x		
Network resources			x	Note 23
Trace reference		x		
Trace reference 2		x		
Trace type		x		
Additional network resources			x	Note 24
Trace depth list		x		
Trace NE type list		x		
Trace interface list		x		
Trace event list		x		Note 25
Trace support indicator		x		Note 25
Location Service Parameters	-			
Age of Location Estimate	x			
Deferred MT-LR Response Indicator	x			
Deferred MT-LR Data	x			
LCS Client ID	x			
LCS Event	x			
Void	-			
LCS Priority	x			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
LCS QoS	x			
CS LCS Not Supported by UE		x		
PS LCS Not Supported by UE		x		
Location Estimate	x			
GERAN Positioning Data	x			
UTRAN Positioning Data	x			
GERAN GANSS Positioning Data	x			
UTRAN GANSS Positioning Data	x			
Location Type	x			
NA-ESRD	x			
NA-ESRK	x			
LCS Service Type Id	x			
Privacy Override	x			
Supported LCS Capability Sets			x	Note 14
LCS Codeword	x			
NA-ESRK Request	x			
Supported GAD Shapes	x			
Additional Location Estimate	x			
Cell Id Or SAI	x			
LCS-Reference Number	x			
LCS Privacy Check	x			
Additional LCS Capability Sets	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Area Event Info	x			
Velocity Estimate	x			
Accuracy Fulfilment Indicator	x			
MO-LR Short Circuit Indicator	x			
Target Serving Node for handover	x			
Reporting PLMN List	x			
Periodic LDR information	x			
Sequence Number	x			
Secure Transport Parameters		x		
Security Header		x		
7.7 Representation of a list of a basic parameter in service-primitives	x			
8. Mobility services	-			
8.1 Location management services	-			
8.1.1 Void	-			
8.1.1.1 Void	-			
8.1.1.2 Void	-			
8.1.1.3 Void	-			
8.1.2 MAP_UPD ATE_LOCATION service	x			
8.1.2.1 Definition	x			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
8.1.2.2 Service primitives	x			
8.1.2.3 Parameter definitions and use	x			
8.1.3 MAP_CAN CEL_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.4 MAP_SEND _IDENTIFICATIO N service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.5 Void		x		
Void		x		
Void		x		
Void		x		
8.1.6 MAP_PURG E_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.7 MAP_UPDA TE_GPRS_LOCA TION service		x		
Definition		x		
Service primitives		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Parameter definitions and use		x		
8.1.8 MAP-NOTE-MM-EVENT		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.2 Paging and search	-			
8.2.1 MAP_PAGE service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.2.2 MAP_SEARCH_FOR_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.3 Access management services	-			
8.3.1 MAP_PROCESS_ACCESS_REQUEST service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.4 Handover services		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
8.4.1 MAP_PREPARE_HANOVER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.2 MAP_SEND_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.3 MAP_PROCESS_ACCESS_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.4 MAP_FORWARD_ACCESS_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.5 MAP_PREPARE_SUBSEQUENT_HANOVER		x		
Definition		x		
Service primitives		x		
Parameter use		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
8.4.6 MAP_ALLO CATE_HANDOVE R_ NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.7 MAP_SEND _HANDOVER_RE PORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.5 Authenticati on management services	-			
8.5.1 MAP_AU THENTICATE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.5.2 MAP_SEND _AUTHENTICATI ON_ INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
8.5.3 MAP_AUTH ENTICATION_FA ILURE_ REPORT service		x		
Definition		x		
Service primitives		x		





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Parameter use		x		
8.6 Security management services	-			
8.6.1 MAP_SET_CIPHERING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.7 International mobile equipment identities management services	-			
8.7.1 MAP_CHECK_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.7.2 MAP_OBTAIN_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.8 Subscriber management services	-			
8.8.1 MAP-INSERT-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Basic service information related to supplementary services		x		
8.8.2 MAP-DELETE-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.9 Identity management services	-			
8.9.1 MAP-PROVIDE-IMSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.9.2 MAP-FORWARD-NEW-TMSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.10 Fault recovery services	-			
8.10.1 MAP_RESET service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
8.10.2 MAP_FORWARD_CHECK_S INDICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.10.3 MAP_RESTORE_DATA service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.11 Subscriber Information services	-			
8.11.1 MAP-ANY- TIME-INTERRO GATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.2 MAP-PRO VIDE-SUBSCRIB ER-INFO service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
8.11.3 MAP-ANY-TIME-SUBSCRIPTION-INTERROGATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.11.4 MAP-ANY-TIME-MODIFICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.11.5 MAP-NOT-E-SUBSCRIBER-DATA-MODIFIED service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
9 Operation and maintenance services	-			
9.1 Subscriber tracing services	-			
9.1.1 MAP-ACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
9.1.2 MAP-DEACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
9.1.3 MAP-TRACE-SUBSCRIBER-ACTIVITY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
9.2 Other operation and maintenance services	-			
9.2.1 MAP-SEND-IMSI service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
10 Call handling services	-			
10.1 MAP_SEND_ROUTING_INFORMATION service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
10.2 MAP_PROVIDE_ROAMING_NUMBER service		x		
Definition		x		
Service primitives		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Parameter use		x		
10.3 MAP_RESUME_CALL_HANDLING service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
10.4 MAP_PREPARE_GROUP_CALL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.5 MAP_PROCESS_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.6 MAP_FORWARD_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7 MAP_SEND_GROUP_CALL_END_SIGNAL service		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7A MAP_SEN D_GROUP_CALL _INFO service		x		
10.7A.1 Definitions		x		
10.7A.2 Service primitives		x		
10.7A.3 Parameter definitions and use		x		
10.8 Void		x		
10.9 Void		x		
10.10 MAP_SET_REPORTING_STATE service.		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.11 MAP_STATUS_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.12 MAP_REMOVE_USER_FREE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.13 MAP_IST_ALERT service		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
10.14 MAP_IS T_COMMAND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.15 MAP_RELE ASE_RESOURCE S service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11 Supplementar y services related services	-			
11.1 MAP_REGIS TER_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.2 MAP_ERAS E_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.3 MAP_ACTIV ATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.4 MAP_DE ACTIVATE_SS service		x		





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
11.5 MAP_INT ERROGATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.6 Void	-			
11.7 MAP_REGIS TER_PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.8 MAP_GE T_PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.9 MAP_PRO CESS_UNSTRUCT URED_SS_ REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
11.10 MAP_UN STRUCTURED_SS _REQUEST service	-			
Definition	x			
Service primitives	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Parameter use	x			
11.11 MAP_UNSTRUCTURED_SS_NOTIFY service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
11.12 MAP_SS_INVOCATION_NOTIFY		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.13 MAP_REGISTER_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.14 MAP_ERASE_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12 Short message service management services	-			
12.1 MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7 , Note 26
Service primitives			x	Note 7 , Note 26
Parameter use	x			Note 26



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
12.2 MAP-MO-FORWARD-SHORT- MESSAGE service	-			
Definition	x			Note 9 , Note 17 , Note 26
Service primitives	x			Note 9 , Note 17 , Note 26
Parameter use	x			Note 17 , Note 26
12.3 MAP-REPORT-SM-DELIVER Y- STATUS service	-			
Definition	x			Note 9 , Note 26
Service primitives	x			Note 9 , Note 26
Parameter use	x			
12.4 MAP-READY-FOR-SM service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12.5 MAP-ALERT-SERVICE-CENTRE service	-			
Definition	x			Note 8 , Note 26
Service primitives	x			Note 8 , Note 26
Parameter use	x			
12.6 MAP-INFORM-SERVICE-CENTRE service	-			
Definition	x			Note 7 , Note 26
Service primitives	x			Note 7 , Note 26
Parameter use	x			
12.7 MAP-SEND-INFO-FOR-MT-SMS service		x		
Definition		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
12.8 MAP-SEND-INFO-FOR-MO-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12.9 MAP-MT-FORWARD-SHORT-MESSAGE service	-			
Definition	x			Note 26
Service primitives	x			Note 26
Parameter use	x			Note 26
12.10 MAP-MT-FORWARD-SM-FOR-VGCS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
13 Network-Requested PDP Context Activation services	-			
13.1 MAP_SEND_ROUTING_INFO_FOR_GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13.2 MAP_FAILURE_REPORT service		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13.3 MAP_NOTE_MS_PRESENT_FOR_GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13A Location Service Management Services	-			
13A.1 MAP-SEND-ROUTING-INFO-FOR-LCS Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
13A.2 MAP-PROVIDE-SUBSCRIBER-LOCATION Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
13A.3 MAP-SU BSCRIBER-LOC ATION-REPORT Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27
13A.4 Void	-			
Void	-			
Void	-			
Void	-			
13A.5 Void	-			
Void	-			
Void	-			
Void	-			
13A.6 Void	-			
Void	-			
Void	-			
Void	-			
13A.7 Void	-			
Void	-			
Void	-			
Void	-			
13A.8 Void	-			
Void	-			
Void	-			
Void	-			
13A.9 Void	-			
Void	-			
Void	-			
Void	-			
14 General		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
14.1 Overview		x		
14.2 Underlying services		x		
14.3 Model		x		
14.4 Conventions		x		
15 Elements of procedure	-			
15.1 Handling of unknown operations	x			
15.2 Dialogue establishment	x			
Behaviour at the initiating side	x			
Behaviour at the responding side	x			
15.3 Dialogue continuation	x			
15.4 Load control		x		
15.5 Procedures for MAP specific services	x			
Service invocation for unsecured dialogues		x		
Service invocation for secured dialogues		x		
Service invocation receipt for unsecured dialogues		x		
Service invocation receipt for secured dialogues		x		
Handling of components received from TC		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
15.6 SDL descriptions			x	
16 Mapping on to TC services		x		
16.1 Dialogue control		x		
Directly mapped parameters	x			
Use of other parameters of dialogue handling primitives	-			
Dialogue Id	x			
Application-cont ext-name	x			
User information	x			
Component present	x			
Termination	x			
P-Abort-Cause	x			
Quality of service	x			
16.2 Service specific procedures	x			
Directly mapped parameters	x			
Use of other parameters of component handling primitives	x			
Dialogue Id	x			
Class	x			
Linked Id	x			
Operation			x	Note 3
Error	x			
Parameters	x			





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Time out	x			
Last component	x			
Problem code	x			
Mapping to MAP User Error	x			
Mapping to MAP Provider Error parameter	x			
Mapping to diagnostic parameter	x			
17 Abstract syntax of the MAP protocol	-			
17.1 General	x			
Encoding rules	x			
Use of TC	x			
Use of Global Operation and Error codes defined outside MAP		x		
Use of information elements defined outside MAP		x		
Compatibility considerations			x	Note 13 , Note 20 , Note 21
Structure of the Abstract Syntax of MAP			x	Note 3
Application Contexts			x	
17.2 Operation packages			x	
General aspects	x			
Packages specifications			x	

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
IMSI retrieval	x			
Call control transfer		x		
Secure transport		x		
Void	-			
Interrogation		x		
Void	-			
Handover Control		x		
Subscriber Data management stand alone		x		
Equipment management		x		
Subscriber data management		x		
Location register restart		x		
Tracing stand-alone		x		
Functional SS handling		x		
Tracing		x		
Binding		x		
Unstructured SS handling	x			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
MO Short message relay services	x			
Short message gateway services	x			
MT Short message relay services	x			
Void	-			
Message waiting data management		x		
Alerting	x			
Data restoration		x		
Purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Void	-			
Gprs location updating		x		
Gprs Interrogation		x		
Failure reporting		x		
GPRS notifying		x		
Supplementary Service invocation notification		x		
Set Reporting State		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Status Report		x		
Remote User Free		x		
Call Completion		x		
Location service gateway services	x			
Location service enquiry	x			
17.2.2.45A Location service reporting	x			
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
MT Short message relay VGCS services	x			
17.3 Application contexts	-			
General aspects	x			
Application context definitions	x			
Void	-			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Location Updating		x		
Location Cancellation		x		
Roaming number enquiry		x		
Void	-			
Location Information Retrieval		x		
Call control transfer		x		
Secure transport		x		
Void	-			
Void	-			
Location registers restart		x		
Handover control		x		
IMSI Retrieval	x			
Equipment Management		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
Stand Alone Subscriber Data Management		x		
Tracing		x		
Network functional SS handling		x		
Network unstructured SS handling			x	
Short Message Gateway	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Mobile originating Short Message Relay	x			
Void	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminating Short Message Relay	x			
MS purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Gprs Location Updating		x		
Gprs Location Information Retrieval		x		
Failure Reporting		x		
GPRS Notifying		x		
Supplementary Service invocation notification		x		
Reporting		x		
Call Completion		x		
Location Service Gateway		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Location Service Enquiry		x		
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
Mobile terminating Short Message Relay VGCS	x			
ASN.1 Module for application-context-names			x	Note 3
17.4 MAP Dialogue Information	x			Note 18
17.5 MAP operation and error codes			x	
17.6 MAP operations and errors			x	
Mobile Service Operations			x	

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Operation and Maintenance Operations			x	Note 19
Call Handling Operations		x		
Supplementary service operations			x	
Short message service operations			x	Note 7 , Note 8 , Note 28
Errors			x	
Group Call operations		x		
Location service operations	x			
Void	-			
17.7 MAP constants and data types	-			
17.7.1 Mobile Service data types			x	
17.7.2 Operation and maintenance data types		x		
17.7.3 Call handling data types			x	
17.7.4 Supplementary service data types			x	
17.7.5 Supplementary service codes			x	
17.7.6 Short message data types	x			
17.7.7 Error data types			x	Note 3





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
17.7.8 Common data types			x	
17.7.9 Teleservice Codes		x		
17.7.10 Bearer Service Codes		x		
17.7.11 Extension data types			x	
17.7.12 Group Call data types		x		
17.7.13 Location service data types	x			
17.7.14 Void	-			
18 General on MAP user procedures	-			
18.1 Introduction	x			
18.2 Common aspects of user procedure descriptions	-			
General conventions		x		
Naming conventions		x		
Convention on primitives parameters		x		
Open service			x	
Close service			x	
Version handling at dialogue establishment		x		
Behaviour at the initiating side		x		
Behaviour at the responding side		x		
Abort Handling		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
SDL conventions	-			
18.3 Interaction between MAP Provider and MAP Users	x			
19 Mobility procedures	-			Note 4
19.1 Location management Procedures		x		Note 4
19.1.1 Location updating			x	Note 36
19.1.1.1 General	-		x	Note 36
19.1.1.2 Detailed procedure in the VLR	x			
19.1.1.3 Detailed procedure in the PVLR		x		
19.1.1.4 Detailed procedure in the SGSN		x		
19.1.1.5 Detailed procedure in the HLR	x			
19.1.2 Location Cancellation		x		
19.1.2.1 General		x		
19.1.2.2 Detailed procedure in the HLR		x		
19.1.2.3 Detailed procedure in the VLR		x		
19.1.2.4 Detailed procedure in the SGSN		x		
19.1.3 Void	-			
19.1.4 MS Purging		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
General		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the HLR		x		
19.2 Handover procedures		x		
General		x		
Handover procedure in MSC-A		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Handover procedure in MSC-B		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Macro Receive_Error_From_HO_CA		x		
Procedure in VLR-B		x		
19.3 Fault recovery procedures		x		
VLR fault recovery procedures		x		Note 29
General		x		
Procedure in the VLR		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Procedure in the HLR		x		
HLR fault recovery procedures		x		
General		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
19.4 Mobility Management Event notification procedure		x		
General		x		
Procedure in the VLR or SGSN		x		
Procedure in the gsmSCF		x		
19.5 HLR Insert Subscriber Data macros		x		
Macro Insert_Sub s_Data_Framed_HLR		x		
Macro Insert_GP RS_Sub s_Data_Framed_HLR		x		
20 Operation and maintenance procedures		x		
20.1 General		x		
Tracing Co-ordinator for the VLR		x		
Tracing Co-ordinator for the SGSN		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Subscriber Data Management Co-ordinator for the VLR		x		
Subscriber Data Management Co-ordinator for the SGSN		x		
Tracing procedures		x		
Subscriber tracing activation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber tracing deactivation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data management procedures		x		
Subscriber deletion procedure		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Subscriber data modification procedure		x		
Procedure in the HLR		x		
Procedures in the VLR		x		
Procedures in the SGSN		x		
Subscriber Identity procedure		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
21 Call handling procedures		x		
21.1 General		x		
21.2 Retrieval of routing information		x		
General		x		
Procedure in the GMSC		x		
Process in the gsmSCF		x		
Procedure in the HLR		x		
Procedure in the VLR to provide a roaming number		x		
Procedure in the VLR to restore subscriber data		x		
Procedure in the VLR to provide subscriber information		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
21.3 Transfer of call handling	-			
21.3.1 General	x			
21.3.2 Process in the VMSC	x			
21.3.3 Process in the GMSC	x			
21.4 Inter MSC Group Call Procedures		x		
General		x		
Process in the Anchor MSC		x		
Process in the Relay MSC		x		
21.4A A Inter MSC Group Call Info Retrieval		x		
21.4A.1 General		x		
21.4A.2 Process in the MSC		x		
21.5 Void	-			
21.6 CCBS: monitoring and reporting the status of the subscriber		x		
Reporting co-ordinator process in the VLR		x		
Setting the reporting state stand-alone		x		
Process in the HLR		x		
Process in the VLR		x		
Status Reporting		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Process in the VLR		x		
Process in the HLR		x		
CCBS: Remote User Free		x		
Process in the HLR		x		
Process in the VLR		x		
21.7 Void	-			
21.8 Void	-			
21.9 Immediate Service Termination (IST)		x		
IST Alert		x		
Procedure in the MSC		x		
Procedure in the HLR		x		
IST Command		x		
Procedure in the HLR		x		
Procedure in the MSC		x		
21.10 Resource Management		x		
General 659		x		
Process in the GMSC		x		Numbered 21.3.3 in Reference [1]
Process in the VMSC		x		Numbered 21.3.2 in Reference [1]
22 Supplementary services procedures		x		





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
22.1 Supplementary service co-ordinator processes		x		
Supplementary service co-ordinator or process for the MSC		x		
Void	-			
Functional supplementary service co-ordinator process for the HLR		x		
Call completion supplementary service co-ordinator or process for the HLR		x		
22.2 Registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.3 Erasure procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.4 Activation procedure		x		
General		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.5 Deactivation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
22.6 Interrogation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedure in the HLR		x		
22.7 Void	-			
22.8 Password registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.9 Mobile Initiated USSD procedure			x	



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedures in the gsmSCF/secondary HLR		x		
22.10 Network initiated USSD procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedure in the gsmSCF or secondary HLR		x		
22.11 Common macros for clause 22		x		
SS Password handling macros		x		
Void	-			
22.12 Supplementary Service Invocation Notification procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the gsmSCF		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
22.13 Activation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.14 Deactivation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
23 Short message service procedures	-			
23.1 General	x			
Mobile originated short message service Co-ordinator for the MSC		x		
Short message Gateway Co-ordinator for the HLR		x		
23.2 The mobile originated short message transfer procedure	x			
Procedure in the serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Procedure in the SMS Inter working MSC (SMS-IWMSC)	x			
23.3 The mobile terminated short message transfer procedure	x			
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the Serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Router		x		
Procedure in the IP-SM-GW		x		
23.4 The Short Message Alert procedure		x		
Procedure in the Serving MSC - the MS has memory available		x		
Procedures in the VLR		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedures in the SGSN		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedure in the HLR		x		
Procedure in the SMS Interworking MSC	x			
23.5 The SM delivery status report procedure		x		
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the IP-SM-GW		x		
23.6 The macro Report_SM_Delivery_Stat_HLR		x		
23.7 The mobile terminated short message transfer procedure for VGCS	x			
Procedure in the SMS-GMSC	x			
Procedure in the Anchor MSC	x			
24 GPRS process description		x		
24.1 Procedure for retrieval of routing information for GPRS		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Process in the GGSN		x		
Process in the HLR		x		
24.2 Procedure for reporting failure to establish a network requested PDP context		x		
Process in the GGSN		x		
Process in the HLR		x		
24.3 Procedure for reporting that an MS has become reachable for GPRS		x		
Process in the HLR		x		
Process in the GGSN for Note Ms Present For Gprs		x		
24A CSE interrogation and control of subscriber data		x		
24A.1 General		x		
24A.2 Any Time Subscription Interrogation procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
24A.3 Any Time Modification procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
24A.4 Subscriber Data Modification Notification procedure		x		
General		x		
Process in the HLR		x		
Process in the gsmSCF		x		
24A.5 Any Time Interrogation procedure	-			
General	x			
Process in the gsmSCF	x			
Process in the HLR	x			
Process in the GMLC	x			
24B Location Service process description			x	Note 16
24B.1 Routeing information retrieval procedure for LCS			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the HLR		x		





Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
24B.2 Provide Subscriber Location procedure			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the MSC		x		
Process in the SGSN		x		
24B.3 Subscriber Location Report procedure			x	Note 16
General			x	Note 16
Process in the MSC		x		
Process in the SGSN		x		
Process in the GMLC	x			

## 2.6 3GPP TS 29.002 Mobile Application Part (MAP) Specification, Version 12.4.0

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
1. Scope	-			
2. References	-			
3. Abbreviations	-			
4. Void	-			
5. Overload and compatibility overview	-			
5.1 Overload control		x		
Overload control for MSC (outside MAP)		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Overload control for MAP entities		x		
Congestion control for Signalling System No. 7		x		
5.2 Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			
Proposed method			x	Note 6
Managing the version look-up table			x	Note 6
Optimizing the method			x	Note 6
6. Requirements concerning the use of SCCP and TC	-			
6.1 Use of SCCP	x			Note 1
SCCP Class	x			Note 1
Sub-System Number (SSN)	x			Note 1
SCCP addressing	-			
Introduction	x			Note 1
The Mobile-services Switching Centre (MSC)	x			Note 1
MSC interaction during handover or relocation		x		
MSC for short message routing	x			Note 1
MSC for location request routing	x			
MSC for LMU control		x		
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
After location updating completion		x		
VLR restoration		x		
During Network-Requested PDB Context Activation		x		
Before GPRS location updating completion		x		
After GPRS location updating completion		x		
Query for a Location Request	x			
The Visitor Location Register (VLR)		x		
Inter-VLR information retrieval		x		
HLR request		x		
The Interworking MSC (IWMSC) for Short Message Service	x			Note 1
The Equipment Identity Register (EIR)		x		
Void	-			
The Serving GPRS Support Node (SGSN)		x		
The Gateway GPRS Support Node (GGSN)		x		
The Gateway MSC (GMSC) for Short Message Service	x			
Void	-			
Void	-			
Void	-			
The Gateway Mobile Location Centre (GMLC)	x			
Summary table			x	Note 3
6.2 Use of TC	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
7. General on MAP services	-			
7.1 Terminology and definitions	x			
7.2 Modelling principles	x			
7.3 Common MAP services	x			
MAP-OPEN service	x			
MAP-CLOSE service	x			
MAP-DELIMITER service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Void	-			
Void	-			
Void	-			
Void	-			
7.4 Sequencing of services	x			
7.5 General rules for mapping of services onto TC	x			
Mapping of common services	x			
Mapping of user specific services	x			
7.6 Definition of parameters	x			
Common parameters	-			
Invoke Id	x			
Linked Id	x			
Provider error	x			
User error	x			Note 3 , Note 17
All Information Sent	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Numbering and identification parameters	-			
IMSI	x			
TMSI		x		
IMEI	x			
IMEISV		x		
Previous location area Id		x		
Stored location area Id		x		
Current location area Id		x		
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		
Void	-			
Originating entity number		x		
MSC number	x			
Target MSC number		x		
HLR number	x			
VLR number	x			
HLR Id		x		
LMSI	x			
MS ISDN	x			
OMC Id		x		
Roaming number		x		
Relocation Number List		x		
Void	-			
Handover number		x		
Forwarded-to number		x		
Long forwarded-to number		x		
Long FTN Supported	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Forwarded-to subaddress		x		
Called number	x			
Calling number	x			
Originally dialled number		x		
Service centre address	x			
Zone Code		x		
MSIsdn-Alert	x			
Location Information			x	Note 22
Location Information for GPRS			x	Note 22
Location Information EPS			x	Note 30
User CSG Info			x	Note 31
GMSC Address	x			
VMSC Address	x			
Group Id		x		
North American Equal Access preferred Carrier Id	x			
Void	-			
Void	-			
Serving cell Id		x		
SGSN number		x		
SGSN address		x		
GGSN address		x		
GGSN number		x		
APN		x		
Network Node number	x			
Network Node Diameter Address	x			
PDP-Type			x	Note 22
PDP-Address			x	Note 22



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
EXT PDP-Type			x	Note 32
EXT PDP-Address			x	Note 22
IMS VOICE OVER PS SESSION IND			x	Note 33
LAST UE ACTIVITY TIME			x	Note 33
LAST RAT TYPE			x	Note 33
Additional number	x			
Additional Network Node Diameter Address	x			
Third Number	x			
Third Network Node Diameter Address	x			
P-TMSI		x		
B-subscriber number		x		
B-subscriber subaddress		x		
LMU Number		x		
MLC Number	x			
Multicall Bearer Information		x		
Multiple Bearer Requested		x		
Multiple Bearer Not Supported		x		
PDP-Charging Characteristics		x		
Selected RAB ID		x		
RAB ID		x		
gsmSCF Address			x	Note 15
V-GMLC Address			x	Note 14
Void	-			
H-GMLC Address	x			
PPR Address	x			
Routeing Number			x	Note 22

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Additional V-GMLC Address	x			
MME Name	x			
3GPP AAA Server Name	x			
CSS number		x		
SGSN Name	x			
SGSN Realm	x			
Subscriber management parameters	-			
Category		x		
Equipment status		x		
BMUEF		x		
Extensible Bearer service	x			
Extensible Teleservice	x			
Extensible Basic Service Group		x		
GSM bearer capability	x			
Subscriber Status		x		
CUG Outgoing Access indicator	x			
Operator Determined Barring General Data		x		
ODB HPLMN Specific Data		x		
Regional Subscription Data		x		
Regional Subscription Response		x		
Roaming Restriction Due To Unsupported Feature		x		
Extensible SS-Info		x		
Extensible forwarding information		x		





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Extensible forwarding feature	x			
Extensible SS-Status	x			
Extensible Forwarding Options	x			
Extensible No reply condition timer	x			
Extensible Call barring information		x		
Extensible Call barring feature	x			
CUG info		x		
CUG subscription		x		
CUG interlock	x			
CUG index		x		
CUG feature		x		
Inter CUG options		x		
Intra CUG restrictions		x		
Extensible SS-Data		x		
Subscriber State	x			
Requested Info	x			
Requested Domain	x			
Suppression of Announcement	x			
Suppress T-CSI	x			
GMSC CAMEL Subscription Info	x			
VLR CAMEL Subscription Info		x		
Supported CAMEL Phases in the VLR		x		
Supported CAMEL Phases in the SGSN		x		
Offered CAMEL4 CSIs in the VLR		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Offered CAMEL4 CSIs in the SGSN		x		
Offered CAMEL4 CSIs	x			
Offered CAMEL4 CSIs in GMSC		x		
Offered CAMEL4 CSIs in VMSC		x		
Offered CAMEL4 Functionalities	x			
Supported CAMEL Phases	x			
Supported CAMEL Phases in interrogating node		x		
CUG Subscription Flag	x			
CAMEL Subscription Info Withdraw		x		
Voice Group Call Service (VGCS) Data		x		
Voice Broadcast Service (VBS) Data		x		
ISDN bearer capability		x		
Lower layer Compability		x		
High Layer Compability		x		
Alerting Pattern	x			
GPRS Subscription Data Withdraw		x		
GPRS Subscription Data		x		
QoS-Subscribed		x		
VPLMN address allowed		x		
Roaming Restricted In SGSN Due To Unsupported Feature		x		
Network Access Mode		x		
Mobile Not Reachable Reason		x		
Cancellation Type		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
All GPRS Data		x		
Complete Data List Included		x		
PDP Context Identifier		x		
LSA Information		x		
SoLSA support indicator		x		
LSA Information Withdraw		x		
LMU Indicator		x		
LCS information		x		
GMLC List		x		
LCS Privacy Exception List		x		
Additional LCS Privacy Exception List		x		
LCS Privacy Exception Parameters		x		
External Client List		x		
Internal Client List		x		
MO-LR List		x		
Privacy Notification to MS User		x		
GMLC List Withdraw		x		
Service Type List		x		
IST Alert Timer	x			
Call Termination Indicator		x		
IST Information Withdraw		x		
IST Support Indicator	x			
Super-Charger Supported In HLR		x		
Super-Charger Supported In Serving Network Entity		x		
Age Indicator		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
GPRS enhancements support indicator		x		
Extension QoS-Subscribed			x	Note 22
SGSN CAMEL Subscription Info		x		
Extension-2 QoS-Subscribed			x	Note 22
Extension-3 QoS-Subscribed			x	Note 22
Extension-4 QoS-Subscribed			x	Note 22
MO-SMS-CSI	x			
MT-SMS-CSI	x			
GPRS-CSI	x			
CAMEL subscription info	x			
Extensible Call barring information for CSE	x			
Extensible Forwarding information for CSE	x			
Modification Request for CSI		x		
Modification Request for ODB data		x		
Modification Request for SS Information		x		
Call Barring Data		x		
Call Forwarding Data		x		
ODB Data	x			
Requested Subscription Info		x		
CS Allocation/Retention priority		x		
ODB Info		x		
Suppress VT-CSI	x			
Suppress Incoming Call Barring	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
gsmSCF Initiated Call	x			
Suppress MTSS	x			
Call barring support indicator		x		
MNP Info Result			x	Note 22
Allowed Services	x			
Unavailability Cause	x			
MNP Requested Info	x			
Access Restriction Data		x		
Supported RAT types indicator		x		
Supplementary services parameters	-			
SS-Code		x		
SS-Code 2		x		
SS-Status		x		
SS-Data		x		
Override Category		x		
CLI Restriction Option		x		
Forwarding Options		x		
No reply condition timer		x		
Void		x		
Forwarding information		x		
Forwarding feature		x		
Void		x		
Call barring information		x		
Call barring feature		x		
New password		x		
Current password		x		
Guidance information		x		
Void		x		
SS-Info		x		
Void		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
USSD Data Coding Scheme	x			
USSD String	x			
Bearer service		x		
Bearer Service 2		x		
Teleservice		x		
Teleservice 2		x		
Basic Service Group	x			
eMLPP information		x		
SS-event		x		
SS-event data		x		
LCS Privacy Exceptions		x		
Mobile Originating Location Request (MO-LR)		x		
NbrUser		x		
MC Subscription Data		x		
MC Information		x		
CCBS Request State		x		
Basic Service Group 2	x			
Call parameters	-			
Call reference number	x			
Interrogation type	x			
OR interrogation	x			
OR capability	x			
Forwarding reason	x			
Forwarding interrogation required	x			
O-CSI	x			
D-CSI	x			
T-CSI	x			
VT-CSI	x			
O-IM-CSI	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
D-IM-CSI	x			
VT-IM-CSI	x			
Void	-			
Void	-			
Void	-			
CCBS Feature		x		
UU Data	x			
UUS CF Interaction	x			
Number Portability Status			x	Note 22
Pre-paging supported	x			
MT Roaming Retry Supported	x			
MT Roaming Retry	x			
Paging Area		x		
Call Priority	x			
Radio parameters		x		
Void		x		
GERAN Classmark		x		
BSSMAP Service Handover		x		
BSSMAP Service Handover List		x		
RANAP Service Handover		x		
HO-Number Not Required		x		
Integrity Protection Information		x		
Encryption Information		x		
Radio Resource Information		x		
Radio Resource List		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		
Allowed GSM Algorithms		x		
Allowed UMTS Algorithms		x		
Selected GSM Algorithm		x		
Iu-Currently Used Codec		x		
Iu-Supported Codecs List		x		
Iu-Available Codecs List		x		
Iu-Selected Codec		x		
RAB Configuration Indicator		x		
UESBI-Iu		x		
Alternative Channel Type		x		
Authentication parameters		x		
Authentication set list	x			
Rand	x			
Sres	x			
Kc	x			
Xres	x			
Ck	x			
Ik	x			
Autn	x			
Cksn		x		
Ksi		x		
Auts		x		
Ciphering mode		x		
Current Security Context		x		





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Failure cause		x		
Re-attempt		x		
Access Type		x		
Short message parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
MWD status	x			
SM-RP-UI	x			
SM-RP-PRI	x			
SM Delivery Outcome	x			
More Messages To Send	x			
Alert Reason		x		
Absent Subscriber Diagnostic SM	x			
Alert Reason Indicator		x		
Additional Alert Reason Indicator		x		
Additional SM Delivery Outcome	x			
Additional Absent Subscriber Diagnostic SM	x			
Delivery Outcome Indicator	x			
GPRS Node Indicator	x			
IP-SM-GW GUIDANCE	x			Note 34
GPRS Support Indicator	x			
SM-RP-MTI	x			
SM-RP-SMEA	x			
IP-SM-GW SM Delivery Outcome	x			
IP-SM-GW Absent Subscriber Diagnostic SM	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
IP-SM-GW Indicator	x			
Access and signalling system related parameters		x		
AN-apdu		x		
CM service type		x		
Access connection status		x		
External Signal Information	x			
Access signalling information		x		
Location update type		x		
Protocol ID	x			
Network signal information	x			
Network signal information 2	x			
Call Info		x		
Additional signal info	x			
System operations parameters		x		
Network resources			x	Note 23
Trace reference		x		
Trace reference 2		x		
Trace type		x		
Additional network resources			x	Note 24
Trace depth list		x		
Trace NE type list		x		
Trace interface list		x		
Trace event list		x		Note 25
Trace support indicator		x		Note 25
Location Service Parameters	-			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Age of Location Estimate	x			
Deferred MT-LR Response Indicator	x			
Deferred MT-LR Data	x			
LCS Client ID	x			
LCS Event	x			
Void	-			
LCS Priority	x			
LCS QoS	x			
CS LCS Not Supported by UE		x		
PS LCS Not Supported by UE		x		
Location Estimate	x			
GERAN Positioning Data	x			
UTRAN Positioning Data	x			
GERAN GANSS Positioning Data	x			
UTRAN GANSS Positioning Data	x			
Location Type	x			
NA-ESRD	x			
NA-ESRK	x			
LCS Service Type Id	x			
Privacy Override	x			
Supported LCS Capability Sets			x	Note 14
LCS Codeword	x			
NA-ESRK Request	x			
Supported GAD Shapes	x			
Additional Location Estimate	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Cell Id Or SAI	x			
LCS-Reference Number	x			
LCS Privacy Check	x			
Additional LCS Capability Sets	x			
Area Event Info	x			
Velocity Estimate	x			
Accuracy Fulfilment Indicator	x			
MO-LR Short Circuit Indicator	x			
Target Serving Node for handover	x			
Reporting PLMN List	x			
Periodic LDR information	x			
Sequence Number	x			
Secure Transport Parameters		x		
Security Header		x		
7.7 Representation of a list of a basic parameter in service-primitives	x			
8. Mobility services	-			
8.1 Location management services	-			
8.1.1 Void	-			
8.1.1.1 Void	-			
8.1.1.2 Void	-			
8.1.1.3 Void	-			
8.1.2 MAP_UPDATE_LOCATION service		x		
8.1.2.1 Definition	x			
8.1.2.2 Service primitives	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
8.1.2.3 Parameter definitions and use		x		
8.1.3 MAP_CANCEL_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.4 MAP_SEND_IDENTIFICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.5 Void		x		
Void		x		
Void		x		
Void		x		
8.1.6 MAP_PURGE_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.7 MAP_UPDATE_GPRS_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.8 MAP-NOTE-MM-EVENT	x			
Definition	x			
Service primitives	x			
Parameter use	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
8.2 Paging and search	-			
8.2.1 MAP_PAGE service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.2.2 MAP_SEARCH_FOR_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.3 Access management services	-			
8.3.1 MAP_PROCESS_ACCESS_REQUEST service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.4 Handover services		x		
8.4.1 MAP_PREPARE_HANDOVER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.2 MAP_SEND_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter use		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
8.4.3 MAP_PROCESS_ACCESS_ SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.4 MAP_FORWARD_ACCESS_ SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.5 MAP_PREPARE_SUBSEQUENT_ HANDOVER		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.6 MAP_ALLOCATE_HANDOVER_ NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.7 MAP_SEND_HANDOVER_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.5 Authentication management services	-			
8.5.1 MAP_AUTHENTICATE service		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
8.5.2 MAP_SEND_AUTHENTICATION_INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
8.5.3 MAP_AUTHENTICATION_FAILURE_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.6 Security management services	-			
8.6.1 MAP_SET_CIPHERING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.7 International mobile equipment identities management services	-			
8.7.1 MAP_CHECK_IMEI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.7.2 MAP_OBTAIN_IMEI service		x		
Definition		x		





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
8.8 Subscriber management services	-			
8.8.1 MAP-INSERT-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Basic service information related to supplementary services		x		
8.8.2 MAP-DELETE-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.9 Identity management services	-			
8.9.1 MAP-PROVIDE-I MSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.9.2 MAP-FORWARD-NEW-TMSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.10 Fault recovery services	-			
8.10.1 MAP_RESET service		x		
Definition		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Service primitives		x		
Parameter definitions and use		x		
8.10.2 MAP_FORWARD_CHECK_SS_INDICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.10.3 MAP_RESTORE_DATA service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.11 Subscriber Information services	-			
8.11.1 MAP-ANY-TIME-INTERROGATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.2 MAP-PROVIDE-SUBSCRIBER-INFO service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.3 MAP-ANY-TIME-SUBSCRIPTION-INTERROGATION service	-			
Definition	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Service primitives	x			
Parameter definitions and use	x			
8.11.4 MAP-ANY-TIME-MODIFICATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.5 MAP-NOTE-SUBSCRIBER-DATA-MODIFIED service	x			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
9 Operation and maintenance services	-			
9.1 Subscriber tracing services	-			
9.1.1 MAP-ACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
9.1.2 MAP-DEACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
9.1.3 MAP-TRACE-SUBSCRIBER-ACTIVITY service		x		
Definition		x		
Service primitives		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Parameter use		x		
9.2 Other operation and maintenance services	-			
9.2.1 MAP-SEND-IMSI service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
10 Call handling services	-			
10.1 MAP_SEND_ROUTING_INFORMATION service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
10.2 MAP_PROVIDE_ROAMING_NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.3 MAP_RESUME_CALL_HANDLING service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
10.4 MAP_PREPARE_GROUP_CALL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
10.5 MAP_PROCESS_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.6 MAP_FORWARD_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7 MAP_SEND_GROUP_CALL_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7A MAP_SEND_GROUP_CALL_INFO service		x		
10.7A.1 Definitions		x		
10.7A.2 Service primitives		x		
10.7A.3 Parameter definitions and use		x		
10.8 Void		x		
10.9 Void		x		
10.10 MAP_SET_REPORTING_STATE service.		x		
Definition		x		
Service primitives		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Parameter use		x		
10.11 MAP_STATUS_R EPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.12 MAP_REMOTE_U SER_FREE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.13 MAP_IST_ALERT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.14 MAP_IST_COMM AND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.15 MAP_RELEASE_ RESOURCES service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11 Supplementary services related services	-			
11.1 MAP_REGISTER_S S service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.2 MAP_ERASE_SS service		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
11.3 MAP_ACTIVATE_S S service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.4 MAP_DEACTIVAT E_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.5 MAP_INTERROGA TE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.6 Void	-			
11.7 MAP_REGISTER_ PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.8 MAP_GET_PASSW ORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.9 MAP_PROCESS_U NSTRUCTURED_SS_ REQUEST service	-			
Definition	x			
Service primitives	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Parameter use	x			
11.10 MAP_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
11.11 MAP_UNSTRUCTURED_SS_NOTIFY service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
11.12 MAP_SS_INVOCATION_NOTIFY		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.13 MAP_REGISTER_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.14 MAP_ERASE_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12 Short message service management services	-			
12.1 MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Service primitives			x	Note 7
Parameter use	x			
12.2 MAP-MO-FORWARD-SHORT- MESSAGE service	-			
Definition	x			Note 9 , Note 17 , Note 26
Service primitives	x			Note 9 , Note 17 , Note 26
Parameter use		x		Note 17 , Note 26
12.3 MAP-REPORT-SM- DELIVERY- STATUS service	-			
Definition	x			Note 9 , Note 26
Service primitives	x			Note 9 , Note 26
Parameter use		x		
12.4 MAP-READY-FOR- SM service	-			
Definition		x		
Service primitives		x		
Parameter use		x		
12.5 MAP-ALERT-SERVICE- CENTRE service	-			
Definition	x			Note 8 , Note 26
Service primitives	x			Note 8 , Note 26
Parameter use		x		
12.6 MAP-INFORM-SERVICE- CENTRE service	-			
Definition	x			Note 7 , Note 26
Service primitives	x			Note 7 , Note 26
Parameter use	x			
12.7 MAP-SEND-INFO-FOR- MT-SMS service		x		
Definition		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
12.8 MAP-SEND-INFO-FOR-MO-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12.9 MAP-MT-FORWARD-SHORT- MESSAGE service	-			
Definition	x			Note 26
Service primitives	x			Note 26
Parameter use	x			Note 26
12.10 MAP-MT-FORWARD-SM-FOR-VGCS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
13 Network-Requested PDP Context Activation services	-			
13.1 MAP_SEND_ROUTING_INFO_FOR_GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13.2 MAP_FAILURE_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
13.3 MAP_NOTE_MS_P RESENT_FOR_GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13A Location Service Management Services	-			
13A.1 MAP-SEND-ROU TING-INFO-FOR- LCS Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
13A.2 MAP-PROVIDE- SUBSCRIBER-LOCATI ON Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27
13A.3 MAP-SUBSCRIB ER-LOCATION-REPOR T Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use		x		Note 27
13A.4 Void	-			
Void	-			
Void	-			
Void	-			
13A.5 Void	-			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
13A.6 Void	-			
Void	-			
Void	-			
Void	-			
13A.7 Void	-			
Void	-			
Void	-			
Void	-			
13A.8 Void	-			
Void	-			
Void	-			
Void	-			
13A.9 Void	-			
Void	-			
Void	-			
Void	-			
14 General		x		
14.1 Overview		x		
14.2 Underlying services		x		
14.3 Model		x		
14.4 Conventions		x		
15 Elements of procedure	-			
15.1 Handling of unknown operations	x			
15.2 Dialogue establishment	x			
Behaviour at the initiating side	x			
Behaviour at the responding side	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
15.3 Dialogue continuation	x			
15.4 Load control		x		
15.5 Procedures for MAP specific services	x			
Service invocation for unsecured dialogues		x		
Service invocation for secured dialogues		x		
Service invocation receipt for unsecured dialogues		x		
Service invocation receipt for secured dialogues		x		
Handling of components received from TC		x		
15.6 SDL descriptions			x	
16 Mapping on to TC services		x		
16.1 Dialogue control		x		
Directly mapped parameters	x			
Use of other parameters of dialogue handling primitives	-			
Dialogue Id	x			
Application-context-name	x			
User information	x			
Component present	x			
Termination	x			
P-Abort-Cause	x			
Quality of service	x			
16.2 Service specific procedures	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Directly mapped parameters	x			
Use of other parameters of component handling primitives	x			
Dialogue Id	x			
Class	x			
Linked Id	x			
Operation			x	Note 3
Error	x			
Parameters	x			
Time out	x			
Last component	x			
Problem code	x			
Mapping to MAP User Error	x			
Mapping to MAP Provider Error parameter	x			
Mapping to diagnostic parameter	x			
17 Abstract syntax of the MAP protocol	-			
17.1 General	x			
Encoding rules	x			
Use of TC	x			
Use of Global Operation and Error codes defined outside MAP		x		
Use of information elements defined outside MAP		x		
Compatibility considerations			x	Note 13 , Note 20 , Note 21
Structure of the Abstract Syntax of MAP			x	Note 3
Application Contexts			x	



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
17.2 Operation packages			x	
General aspects	x			
Packages specifications			x	
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
IMSI retrieval	x			
Call control transfer		x		
Secure transport		x		
Void	-			
Interrogation		x		
Void	-			
Handover Control		x		
Subscriber Data management stand alone		x		
Equipment management		x		
Subscriber data management		x		
Location register restart		x		
Tracing stand-alone		x		
Functional SS handling		x		
Tracing		x		
Binding		x		
Unstructured SS handling	x			
MO Short message relay services	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Short message gateway services	x			
MT Short message relay services	x			
Void	-			
Message waiting data management		x		
Alerting	x			
Data restoration		x		
Purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Void	-			
Gprs location updating		x		
Gprs Interrogation		x		
Failure reporting		x		
GPRS notifying		x		
Supplementary Service invocation notification		x		
Set Reporting State		x		
Status Report		x		
Remote User Free		x		
Call Completion		x		
Location service gateway services	x			
Location service enquiry	x			
17.2.2.45A Location service reporting	x			
Void	-			





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
MT Short message relay VGCS services	x			
17.3 Application contexts	-			
General aspects	x			
Application context definitions	x			
Void	-			
Location Updating		x		
Location Cancellation		x		
Roaming number enquiry		x		
Void	-			
Location Information Retrieval		x		
Call control transfer		x		
Secure transport		x		
Void	-			
Void	-			
Location registers restart		x		
Handover control		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
IMSI Retrieval	x			
Equipment Management		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
Stand Alone Subscriber Data Management		x		
Tracing		x		
Network functional SS handling		x		
Network unstructured SS handling			x	
Short Message Gateway	x			
Mobile originating Short Message Relay	x			
Void	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminating Short Message Relay	x			
MS purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Gprs Location Updating		x		
Gprs Location Information Retrieval		x		
Failure Reporting		x		
GPRS Notifying		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Supplementary Service invocation notification		x		
Reporting		x		
Call Completion		x		
Location Service Gateway		x		
Location Service Enquiry		x		
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
Mobile terminating Short Message Relay VGCS	x			
ASN.1 Module for application-context-names			x	Note 3
17.4 MAP Dialogue Information	x			Note 18
17.5 MAP operation and error codes			x	
17.6 MAP operations and errors			x	
Mobile Service Operations			x	

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Operation and Maintenance Operations			x	Note 19
Call Handling Operations		x		
Supplementary service operations			x	
Short message service operations			x	Note 7 , Note 8 , Note 28
Errors			x	
Group Call operations		x		
Location service operations	x			
Void	-			
17.7 MAP constants and data types	-			
17.7.1 Mobile Service data types			x	
17.7.2 Operation and maintenance data types		x		
17.7.3 Call handling data types			x	
17.7.4 Supplementary service data types			x	
17.7.5 Supplementary service codes			x	
17.7.6 Short message data types	x			
17.7.7 Error data types			x	Note 3
17.7.8 Common data types			x	
17.7.9 Teleservice Codes		x		
17.7.10 Bearer Service Codes		x		
17.7.11 Extension data types			x	



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
17.7.12 Group Call data types		x		
17.7.13 Location service data types	x			
17.7.14 Void	-			
18 General on MAP user procedures	-			
18.1 Introduction	x			
18.2 Common aspects of user procedure descriptions	-			
General conventions		x		
Naming conventions		x		
Convention on primitives parameters		x		
Open service	x			
Close service	x			
Version handling at dialogue establishment		x		
Behaviour at the initiating side		x		
Behaviour at the responding side		x		
Abort Handling		x		
SDL conventions	-			
18.3 Interaction between MAP Provider and MAP Users	x			
19 Mobility procedures	-			Note 4
19.1 Location management Procedures		x		Note 4
19.1.1 Location updating			x	Note 36
19.1.1.1 General	-		x	Note 36
19.1.1.2 Detailed procedure in the VLR	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
19.1.13 Detailed procedure in the PVLR		x		
19.1.14 Detailed procedure in the SGSN		x		
19.1.1.5 Detailed procedure in the HLR	x			
19.1.2 Location Cancellation		x		
19.1.2.1 General		x		
19.1.2.2 Detailed procedure in the HLR		x		
19.1.2.3 Detailed procedure in the VLR		x		
19.1.2.4 Detailed procedure in the SGSN		x		
19.1.3 Void	-			
19.1.4 MS Purging		x		
General		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the HLR		x		
19.2 Handover procedures		x		
General		x		
Handover procedure in MSC-A		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Handover procedure in MSC-B		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Macro Receive_Error_From_HO_CA		x		
Procedure in VLR-B		x		
19.3 Fault recovery procedures		x		
VLR fault recovery procedures		x		Note 29
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
HLR fault recovery procedures		x		
General		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
19.4 Mobility Management Event notification procedure		x		
General		x		
Procedure in the VLR or SGSN		x		
Procedure in the gsmSCF		x		
19.5 HLR Insert Subscriber Data macros		x		
Macro Insert_Subscriber_Data_Framed_HLR		x		
Macro Insert_GPRS_Subscriber_Data_Framed_HLR		x		
20 Operation and maintenance procedures		x		
20.1 General		x		
Tracing Co-ordinator for the VLR		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Tracing Co-ordinator for the SGSN		x		
Subscriber Data Management Co-ordinator for the VLR		x		
Subscriber Data Management Co-ordinator for the SGSN		x		
Tracing procedures		x		
Subscriber tracing activation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber tracing deactivation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data management procedures		x		
Subscriber deletion procedure		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data modification procedure		x		
Procedure in the HLR		x		
Procedures in the VLR		x		
Procedures in the SGSN		x		
Subscriber Identity procedure		x		
Procedure in the VLR		x		





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Procedure in the HLR		x		
21 Call handling procedures		x		
21.1 General		x		
21.2 Retrieval of routing information		x		
General		x		
Procedure in the GMSC		x		
Process in the gsmSCF		x		
Procedure in the HLR		x		
Procedure in the VLR to provide a roaming number		x		
Procedure in the VLR to restore subscriber data		x		
Procedure in the VLR to provide subscriber information		x		
21.3 Transfer of call handling	-			
21.3.1 General	x			
21.3.2 Process in the VMSC	x			
21.3.3 Process in the GMSC	x			
21.4 Inter MSC Group Call Procedures		x		
General		x		
Process in the Anchor MSC		x		
Process in the Relay MSC		x		
21.4A A Inter MSC Group Call Info Retrieval		x		
21.4A.1 General		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
21.4A.2 Process in the MSC		x		
21.5 Void	-			
21.6 CCBS: monitoring and reporting the status of the subscriber		x		
Reporting co-ordinator process in the VLR		x		
Setting the reporting state stand-alone		x		
Process in the HLR		x		
Process in the VLR		x		
Status Reporting		x		
Process in the VLR		x		
Process in the HLR		x		
CCBS: Remote User Free		x		
Process in the HLR		x		
Process in the VLR		x		
21.7 Void	-			
21.8 Void	-			
21.9 Immediate Service Termination (IST)		x		
IST Alert		x		
Procedure in the MSC		x		
Procedure in the HLR		x		
IST Command		x		
Procedure in the HLR		x		
Procedure in the MSC		x		
21.10 Resource Management		x		
General 659		x		
Process in the GMSC		x		Numbered 21.3.3 in Reference [1]



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Process in the VMSC		x		Numbered 21.3.2 in Reference [1]
22 Supplementary services procedures		x		
22.1 Supplementary service co-ordinator processes		x		
Supplementary service co-ordinator process for the MSC		x		
Void	-			
Functional supplementary service co-ordinator process for the HLR		x		
Call completion supplementary service co-ordinator process for the HLR		x		
22.2 Registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.3 Erasure procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.4 Activation procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
22.5 Deactivation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
22.6 Interrogation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedure in the HLR		x		
22.7 Void	-			
22.8 Password registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.9 Mobile Initiated USSD procedure	-			Note 37
General			x	Note 39
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedures in the gsmSCF/secondary HLR		x		
22.10 Network initiated USSD procedure	-			Note 37
General			x	Note 38
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Procedure in the gsmSCF or secondary HLR		x		
22.11 Common macros for clause 22		x		
SS Password handling macros		x		
Void	-			
22.12 Supplementary Service Invocation Notification procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the gsmSCF		x		
22.13 Activation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.14 Deactivation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
23 Short message service procedures	-			
23.1 General	x			
Mobile originated short message service Co-ordinator for the MSC		x		
Short message Gateway Co-ordinator for the HLR		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
23.2 The mobile originated short message transfer procedure	x			
Procedure in the serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Interworking MSC (SMS-IWMSC)	x			
23.3 The mobile terminated short message transfer procedure	x			
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the Serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Router		x		
Procedure in the IP-SM-GW		x		
23.4 The Short Message Alert procedure		x		
Procedure in the Serving MSC - the MS has memory available		x		
Procedures in the VLR		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedures in the SGSN		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedure in the HLR		x		
Procedure in the SMS Interworking MSC	x			
23.5 The SM delivery status report procedure		x		
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the IP-SM-GW		x		
23.6 The macro Report_SM_Delivery_Stat_HLR		x		
23.7 The mobile terminated short message transfer procedure for VGCS	x			
Procedure in the SMS-GMSC	x			
Procedure in the Anchor MSC	x			
24 GPRS process description		x		
24.1 Procedure for retrieval of routing information for GPRS		x		
Process in the GGSN		x		
Process in the HLR		x		
24.2 Procedure for reporting failure to establish a network requested PDP context		x		
Process in the GGSN		x		
Process in the HLR		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
24.3 Procedure for reporting that an MS has become reachable for GPRS		x		
Process in the HLR		x		
Process in the GGSN for Note Ms Present For Gprs		x		
24A CSE interrogation and control of subscriber data		x		
24A.1 General		x		
24A.2 Any Time Subscription Interrogation procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
24A.3 Any Time Modification procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
24A.4 Subscriber Data Modification Notification procedure		x		
General		x		
Process in the HLR		x		
Process in the gsmSCF		x		
24A.5 Any Time Interrogation procedure	-			
General	x			
Process in the gsmSCF	x			
Process in the HLR	x			
Process in the GMLC	x			
24B Location Service process description			x	Note 16





Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
24B.1 Routing information retrieval procedure for LCS			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the HLR		x		
24B.2 Provide Subscriber Location procedure			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the MSC		x		
Process in the SGSN		x		
24B.3 Subscriber Location Report procedure			x	Note 16
General			x	Note 16
Process in the MSC		x		
Process in the SGSN		x		
Process in the GMLC	x			
25 General macro description	-			Note 37
25.1 MAP_OPEN handling macros	-			
25.1.1 Macro Receive_Open_Ind		x		
25.1.2 Macro Receive_Open_Cnf		x		
25.2 Macros to check the content of indication and confirmation primitives	-			
25.2.1 Macro Check_Indication		x		
25.2.2 Macro Check_Confirmation		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
25.3 The page and search macros	-			
25.3.1 Macro PAGE_MSC		x		
25.3.2 Macro Search_For_MS_MSC		x		
25.4 Macros for handling an Access Request	-			
25.4.1 Macro Process_Access_Request_MSC		x		
25.4.2 Macro Process_Access_Request_VLR		x		
25.4.3 Macro Obtain_Identity_VLR		x		
25.4.4 Process Update_Location_Child_VLR		x		
25.5 Authentication macros and processes	-			
25.5.1 Macro Authenticate_MSC		x		
25.5.2 Macro Authenticate_VLR		x		
25.5.3 Macro Obtain_Authent_Params_VLR		x		
25.5.4 Process Obtain_Authentication_Sets_VLR		x		
25.5.5 Process Obtain_Authent_Sets_SGSN		x		
25.5.6 Process Obtain_Authent_Sets_HLR		x		
25.5.7 Authentication Failure Reporting	-			
General		x		
Process in the VLR	-			Void
Process in the SGSN	-			Void
Process in the HLR	-			Void



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
25.6 IMEI Handling Macros	-			
25.6.1 Macro Check_IMEI_MSC		x		
25.6.2 Macro Check_IMEI_VLR		x		
25.6.3 Process Check_IMEI_SGSN		x		
25.6.4 Process Check_IMEI_EIR		x		
25.6.5 Macro Obtain_IMEI_MSC		x		
25.6.6 Macro Obtain_IMEI_VLR		x		
25.7 Insert Subscriber Data macros and processes	-			
25.7.1 Macro Insert_Subs_Data_VLR		x		
25.7.2 Macro Insert_Subs_Data_SGSN		x		
25.7.3 Process Insert_Subs_Data_Stand_Alone_HLR		x		
25.7.4 Process Insert_GPRS_Subs_Data_Stand_Alone_HLR		x		
25.7.5 Macro Wait_for_Insert_Subs_Data_Cnf		x		
25.7.6 Macro Wait_for_Insert_GPRS_Subs_Data_Cnf		x		
25.7.7 Process Send_Insert_Subs_Data_HLR		x		
25.7.8 Process Insert_VCSG_Subs_Data_Stand_Alone_CSS		x		
25.7.9 Macro Wait_for_Insert_VCSG_Subs_Data_Cnf		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
25.7.10 Process Send_Insert_VCSG_Subs_Data_CSS		x		
25.8 Request IMSI Macros	-			
25.8.1 Macro Obtain_IMSI_MSC		x		
25.8.2 Macro Obtain_IMSI_VLR		x		
25.9 Tracing macros	-			
25.9.1 Macro Trace_Subscriber_Activity_MSC		x		
25.9.2 Macro Trace_Subscriber_Activity_VLR		x		
25.9.3 Macro Trace_Subscriber_Activity_SGSN		x		
25.9.4 Macro Activate_Tracing_VLR		x		
25.9.5 Macro Activate_Tracing_SGSN		x		
25.9.6 Macro Control_Tracing_With_VLR_HLR		x		
25.9.7 Macro Control_Tracing_With_SGSN_HLR		x		
25.10 Short Message Alert procedures	-			
25.10.1 Process Subscriber_Present_VLR		x		
25.10.2 Process SubscriberPresent_SGSN		x		
25.10.3 Macro Alert_Service_Centre_HLR		x		
25.10.4 Process Alert_SC_HLR		x		
Annex A (informative): ASN.1 Cross-reference listing and fully expanded sources	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Annex B (informative): Void	-			
Annex C (informative): Message Segmentation Mechanisms	-			
C.1 SCCP segmentation	x			
C.2 TCAP segmentation	-			
C.2.1 Empty Begin		x		
C.2.2 Empty Continue		x		
C.2.3 TC-Result-NL		x		
C.3 MAP Segmentation	-			
C.3.1 Invoke without explicit indication		x		
C.3.2 Invoke with explicit indication		x		
C.3.3 Result		x		
Annex D (informative): Void	-			

## 2.7 3GPP TS 29.002 Mobile Application Part (MAP) Specification, Version 13.6.0

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
1. Scope	-			
2. References	-			
3. Abbreviations	-			
4. Void	-			
5. Overload and compatibility overview	-			
5.1 Overload control		x		
Overload control for MSC (outside MAP)		x		
Overload control for MAP entities		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Congestion control for Signalling System No. 7		x		
5.2 Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			
Proposed method			x	Note 6
Managing the version look-up table			x	Note 6
Optimizing the method			x	Note 6
6. Requirements concerning the use of SCCP and TC	-			
6.1 Use of SCCP	x			Note 1
SCCP Class	x			Note 1
Sub-System Number (SSN)	x			Note 1
SCCP addressing	-			
Introduction	x			Note 1
The Mobile-services Switching Centre (MSC)	x			Note 1
MSC interaction during handover or relocation		x		
MSC for short message routing	x			Note 1
MSC for location request routing	x			
MSC for LMU control		x		
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		
After location updating completion		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
VLR restoration		x		
During Network-Req uested PDB Context Activation		x		
Before GPRS location updating completion		x		
After GPRS location updating completion		x		
Query for a Location Request	x			
The Visitor Location Register (VLR)		x		
Inter-VLR information retrieval		x		
HLR request		x		
The Interworking MSC (IWMSC) for Short Message Service	x			Note 1
The Equipment Identity Register (EIR)		x		
Void	-			
The Serving GPRS Support Node (SGSN)		x		
The Gateway GPRS Support Node (GGSN)		x		
The Gateway MSC (GMSC) for Short Message Service	x			
Void	-			
Void	-			
Void	-			
The Gateway Mobile Location Centre (GMLC)	x			
Summary table			x	Note 3
6.2 Use of TC	x			
7. General on MAP services	-			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
7.1 Terminology and definitions	x			
7.2 Modelling principles	x			
7.3 Common MAP services	x			
MAP-OPEN service	x			
MAP-CLOSE service	x			
MAP-DELIMITER service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Void	-			
Void	-			
Void	-			
Void	-			
7.4 Sequencing of services	x			
7.5 General rules for mapping of services onto TC	x			
Mapping of common services	x			
Mapping of user specific services	x			
7.6 Definition of parameters	x			
Common parameters	-			
Invoke Id	x			
Linked Id	x			
Provider error	x			
User error	x			Note 3 , Note 17
All Information Sent	x			
Numbering and identification parameters	-			





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
IMSI	x			
TMSI		x		
IMEI	x			Note 40
IMEISV		x		
Previous location area Id		x		
Stored location area Id		x		
Current location area Id		x		
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		
Void	-			
Originating entity number		x		
MSC number	x			
Target MSC number		x		
HLR number	x			
VLR number	x			
HLR Id		x		
LMSI	x			
MS ISDN	x			
OMC Id		x		
Roaming number		x		
Relocation Number List		x		
Void	-			
Handover number		x		
Forwarded-to number		x		
Long forwarded-to number		x		
Long FTN Supported	x			
Forwarded-to subaddress		x		
Called number	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Calling number	x			
Originally dialled number		x		
Service centre address	x			
Zone Code		x		
MSIsdn-Alert	x			
Location Information			x	Note 22
Location Information for GPRS			x	Note 22
Location Information EPS			x	Note 30
User CSG Info			x	Note 31
GMSC Address	x			
VMSC Address	x			
Group Id		x		
North American Equal Access preferred Carrier Id	x			
Void	-			
Void	-			
Serving cell Id		x		
SGSN number		x		
SGSN address		x		
GGSN address		x		
GGSN number		x		
APN		x		
Network Node number	x			
Network Node Diameter Address	x			
PDP-Type			x	Note 22
PDP-Address			x	Note 22
EXT PDP-Type			x	Note 32
EXT PDP-Address			x	Note 22



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
IMS VOICE OVER PS SESSION IND			x	Note 33
LAST UE ACTIVITY TIME			x	Note 33
LAST RAT TYPE			x	Note 33
Additional number	x			
Additional Network Node Diameter Address	x			
Third Number	x			
Third Network Node Diameter Address	x			
P-TMSI		x		
B-subscriber number		x		
B-subscriber subaddress		x		
LMU Number		x		
MLC Number	x			
Multicall Bearer Information		x		
Multiple Bearer Requested		x		
Multiple Bearer Not Supported		x		
PDP-Charging Characteristics		x		
Selected RAB ID		x		
RAB ID		x		
gsmSCF Address			x	Note 15
V-GMLC Address			x	Note 14
Void	-			
H-GMLC Address	x			
PPR Address	x			
Routeing Number			x	Note 22
Additional V-GMLC Address	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
MME Name	x			
3GPP AAA Server Name	x			
CSS number		x		
SGSN Name	x			
SGSN Realm	x			
Subscriber management parameters	-			
Category		x		
Equipment status	x			
BMUEF	x			
Extensible Bearer service	x			
Extensible Teleservice	x			
Extensible Basic Service Group		x		
GSM bearer capability	x			
Subscriber Status		x		
CUG Outgoing Access indicator	x			
Operator Determined Barring General Data		x		
ODB HPLMN Specific Data		x		
Regional Subscription Data		x		
Regional Subscription Response		x		
Roaming Restriction Due To Unsupported Feature		x		
Extensible SS-Info		x		
Extensible forwarding information		x		
Extensible forwarding feature	x			
Extensible SS-Status	x			



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Extensible Forwarding Options	x			
Extensible No reply condition timer	x			
Extensible Call barring information		x		
Extensible Call barring feature	x			
CUG info		x		
CUG subscription		x		
CUG interlock	x			
CUG index		x		
CUG feature		x		
Inter CUG options		x		
Intra CUG restrictions		x		
Extensible SS-Data		x		
Subscriber State	x			
Requested Info	x			
Requested Domain	x			
Suppression of Announcement	x			
Suppress T-CSI	x			
GMSC CAMEL Subscription Info	x			
VLR CAMEL Subscription Info		x		
Supported CAMEL Phases in the VLR		x		
Supported CAMEL Phases in the SGSN		x		
Offered CAMEL4 CSIs in the VLR		x		
Offered CAMEL4 CSIs in the SGSN		x		
Offered CAMEL4 CSIs	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Offered CAMEL4 CSIs in GMSC		x		
Offered CAMEL4 CSIs in VMSC		x		
Offered CAMEL4 Functionalities	x			
Supported CAMEL Phases	x			
Supported CAMEL Phases in interrogating node		x		
CUG Subscription Flag	x			
CAMEL Subscription Info Withdraw		x		
Voice Group Call Service (VGCS) Data		x		
Voice Broadcast Service (VBS) Data		x		
ISDN bearer capability		x		
Lower layer Compability		x		
High Layer Compability		x		
Alerting Pattern	x			
GPRS Subscription Data Withdraw		x		
GPRS Subscription Data		x		
QoS-Subscribed		x		
VPLMN address allowed		x		
Roaming Restricted In SGSN Due To Unsupported Feature		x		
Network Access Mode		x		
Mobile Not Reachable Reason		x		
Cancellation Type		x		
All GPRS Data		x		
Complete Data List Included		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
PDP Context Identifier		x		
LSA Information		x		
SoLSA support indicator		x		
LSA Information Withdraw		x		
LMU Indicator		x		
LCS information		x		
GMLC List		x		
LCS Privacy Exception List		x		
Additional LCS Privacy Exception List		x		
LCS Privacy Exception Parameters		x		
External Client List		x		
Internal Client List		x		
MO-LR List		x		
Privacy Notification to MS User		x		
GMLC List Withdraw		x		
Service Type List		x		
IST Alert Timer	x			
Call Termination Indicator		x		
IST Information Withdraw		x		
IST Support Indicator	x			
Super-Charger Supported In HLR		x		
Super-Charger Supported In Serving Network Entity		x		
Age Indicator		x		
GPRS enhancements support indicator		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Extension QoS-Subscribed			x	Note 22
SGSN CAMEL Subscription Info		x		
Extension-2 QoS-Subscribed			x	Note 22
Extension-3 QoS-Subscribed			x	Note 22
Extension-4 QoS-Subscribed			x	Note 22
MO-SMS-CSI	x			
MT-SMS-CSI	x			
GPRS-CSI	x			
CAMEL subscription info	x			
Extensible Call barring information for CSE	x			
Extensible Forwarding information for CSE	x			
Modification Request for CSI		x		
Modification Request for ODB data		x		
Modification Request for SS Information		x		
Call Barring Data		x		
Call Forwarding Data		x		
ODB Data	x			
Requested Subscription Info		x		
CS Allocation/Retention priority		x		
ODB Info		x		
Suppress VT-CSI	x			
Suppress Incoming Call Barring	x			
gsmSCF Initiated Call	x			





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Suppress MTSS	x			
Call barring support indicator		x		
MNP Info Result			x	Note 22
Allowed Services	x			
Unavailability Cause	x			
MNP Requested Info	x			
Access Restriction Data		x		
Supported RAT types indicator		x		
Supplementary services parameters	-			
SS-Code	x			
SS-Code 2		x		
SS-Status	x			
SS-Data	x			
Override Category	x			
CLI Restriction Option	x			
Forwarding Options	x			
No reply condition timer	x			
Void		x		
Forwarding information	x			
Forwarding feature	x			
Void		x		
Call barring information	x			
Call barring feature	x			
New password		x		
Current password		x		
Guidance information		x		
Void		x		
SS-Info	x			
Void		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
USSD Data Coding Scheme	x			
USSD String	x			
Bearer service	x			
Bearer Service 2		x		
Teleservice	x			
Teleservice 2		x		
Basic Service Group	x			
eMLPP information		x		
SS-event		x		
SS-event data		x		
LCS Privacy Exceptions		x		
Mobile Originating Location Request (MO-LR)		x		
NbrUser	x			
MC Subscription Data		x		
MC Information		x		
CCBS Request State		x		
Basic Service Group 2	x			
Call parameters	-			
Call reference number	x			
Interrogation type	x			
OR interrogation	x			
OR capability	x			
Forwarding reason	x			
Forwarding interrogation required	x			
O-CSI	x			
D-CSI	x			
T-CSI	x			
VT-CSI	x			
O-IM-CSI	x			



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
D-IM-CSI	x			
VT-IM-CSI	x			
Void	-			
Void	-			
Void	-			
CCBS Feature	x			
UU Data	x			
UUS CF Interaction	x			
Number Portability Status			x	Note 22
Pre-paging supported	x			
MT Roaming Retry Supported	x			
MT Roaming Retry	x			
Paging Area		x		
Call Priority	x			
Radio parameters		x		
Void		x		
GERAN Classmark		x		
BSSMAP Service Handover		x		
BSSMAP Service Handover List		x		
RANAP Service Handover		x		
HO-Number Not Required		x		
Integrity Protection Information		x		
Encryption Information		x		
Radio Resource Information		x		
Radio Resource List		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		
Allowed GSM Algorithms		x		
Allowed UMTS Algorithms		x		
Selected GSM Algorithm		x		
Iu-Currently Used Codec		x		
Iu-Supported Codecs List		x		
Iu-Available Codecs List		x		
Iu-Selected Codec		x		
RAB Configuration Indicator		x		
UESBI-Iu		x		
Alternative Channel Type		x		
Authentication parameters		x		
Authentication set list	x			
Rand	x			
Sres	x			
Kc	x			
Xres	x			
Ck	x			
Ik	x			
Autn	x			
Cksn		x		
Ksi		x		
Auts		x		
Ciphering mode		x		
Current Security Context		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Failure cause		x		
Re-attempt		x		
Access Type		x		
Short message parameters	-			
SM-RP-DA	x			
SM-RP-OA	x			
MWD status	x			
SM-RP-UI	x			
SM-RP-PRI	x			
SM Delivery Outcome	x			
More Messages To Send	x			
Alert Reason		x		
Absent Subscriber Diagnostic SM	x			
Alert Reason Indicator		x		
Additional Alert Reason Indicator		x		
Additional SM Delivery Outcome	x			
Additional Absent Subscriber Diagnostic SM	x			
Delivery Outcome Indicator	x			
GPRS Node Indicator	x			
IP-SM-GW GUIDANCE	x			Note 34
GPRS Support Indicator	x			
SM-RP-MTI	x			
SM-RP-SMEA	x			
IP-SM-GW SM Delivery Outcome	x			
IP-SM-GW Absent Subscriber Diagnostic SM	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
IP-SM-GW Indicator	x			
Access and signalling system related parameters		x		
AN-apdu		x		
CM service type		x		
Access connection status		x		
External Signal Information	x			
Access signalling information		x		
Location update type		x		
Protocol ID	x			
Network signal information	x			
Network signal information 2	x			
Call Info		x		
Additional signal info	x			
System operations parameters		x		
Network resources			x	Note 23
Trace reference		x		
Trace reference 2		x		
Trace type		x		
Additional network resources			x	Note 24
Trace depth list		x		
Trace NE type list		x		
Trace interface list		x		
Trace event list		x		Note 25
Trace support indicator		x		Note 25
Location Service Parameters	-			



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Age of Location Estimate	x			
Deferred MT-LR Response Indicator	x			
Deferred MT-LR Data	x			
LCS Client ID	x			
LCS Event	x			
Void	-			
LCS Priority	x			
LCS QoS	x			
CS LCS Not Supported by UE		x		
PS LCS Not Supported by UE		x		
Location Estimate	x			
GERAN Positioning Data	x			
UTRAN Positioning Data	x			
GERAN GANSS Positioning Data	x			
UTRAN GANSS Positioning Data	x			
Location Type	x			
NA-ESRD	x			
NA-ESRK	x			
LCS Service Type Id	x			
Privacy Override	x			
Supported LCS Capability Sets			x	Note 14
LCS Codeword	x			
NA-ESRK Request	x			
Supported GAD Shapes	x			
Additional Location Estimate	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Cell Id Or SAI	x			
LCS-Reference Number	x			
LCS Privacy Check	x			
Additional LCS Capability Sets	x			
Area Event Info	x			
Velocity Estimate	x			
Accuracy Fulfilment Indicator	x			
MO-LR Short Circuit Indicator	x			
Target Serving Node for handover	x			
Reporting PLMN List	x			
Periodic LDR information	x			
Sequence Number	x			
Secure Transport Parameters		x		
Security Header		x		
7.7 Representation of a list of a basic parameter in service-primitives	x			
8. Mobility services	-			
8.1 Location management services	-			
8.1.1 Void	-			
8.1.1.1 Void	-			
8.1.1.2 Void	-			
8.1.1.3 Void	-			
8.1.2 MAP_UPDATE_LOCATION service		x		
8.1.2.1 Definition	x			
8.1.2.2 Service primitives	x			





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
8.1.2.3 Parameter definitions and use		x		
8.1.3 MAP_CANCEL_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.4 MAP_SEND_IDENTIFICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.5 Void		x		
Void		x		
Void		x		
Void		x		
8.1.6 MAP_PURGE_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.7 MAP_UPDATE_GPRS_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.1.8 MAP-NOTE-MM-EVENT	x			
Definition	x			
Service primitives	x			
Parameter use	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
8.2 Paging and search	-			
8.2.1 MAP_PAGE service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.2.2 MAP_SEARCH_FOR_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.3 Access management services	-			
8.3.1 MAP_PROCESS_ACCESS_REQUEST service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.4 Handover services		x		
8.4.1 MAP_PREPARE_HANDOVER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.2 MAP_SEND_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter use		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
8.4.3 MAP_PROCESS_ACCESS_ SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.4 MAP_FORWARD_ACCESS_ SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.5 MAP_PREPARE_SUBSEQUENT_ HANDOVER		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.6 MAP_ALLOCATE_HANDOVER_ NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.7 MAP_SEND_HANDOVER_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.5 Authentication management services	-			
8.5.1 MAP_AUTHENTICATE service		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
8.5.2 MAP_SEND_AUTHENTICATION_INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
8.5.3 MAP_AUTHENTICATION_FAILURE_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.6 Security management services	-			
8.6.1 MAP_SET_CIPHERING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.7 International mobile equipment identities management services	-			
8.7.1 MAP_CHECK_IMEI service	x			
Definition	x			
Service primitives	x			
Parameter use	x			Note 40
8.7.2 MAP_OBTAIN_IMEI service		x		
Definition		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
8.8 Subscriber management services	-			
8.8.1 MAP-INSERT-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Basic service information related to supplementary services		x		
8.8.2 MAP-DELETE-SUBSCRIBER-DATA service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.9 Identity management services	-			
8.9.1 MAP-PROVIDE-I MSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.9.2 MAP-FORWARD-NEW-TMSI service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.10 Fault recovery services	-			
8.10.1 MAP_RESET service		x		
Definition		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Service primitives		x		
Parameter definitions and use		x		
8.10.2 MAP_FORWARD_CHECK_SS_INDICATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.10.3 MAP_RESTORE_DATA service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
8.11 Subscriber Information services	-			
8.11.1 MAP-ANY-TIME-INTERROGATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.2 MAP-PROVIDE-SUBSCRIBER-INFO service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.3 MAP-ANY-TIME-SUBSCRIPTION-INTERROGATION service	-			
Definition	x			



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Service primitives	x			
Parameter definitions and use	x			
8.11.4 MAP-ANY-TIME-MODIFICATION service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
8.11.5 MAP-NOTE-SUBSCRIBER-DATA-MODIFIED service	x			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
9 Operation and maintenance services	-			
9.1 Subscriber tracing services	-			
9.1.1 MAP-ACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
9.1.2 MAP-DEACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
9.1.3 MAP-TRACE-SUBSCRIBER-ACTIVITY service		x		
Definition		x		
Service primitives		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Parameter use		x		
9.2 Other operation and maintenance services	-			
9.2.1 MAP-SEND-IMSI service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
10 Call handling services	-			
10.1 MAP_SEND_ROUTING_INFORMATION service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
10.2 MAP_PROVIDE_ROAMING_NUMBER service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.3 MAP_RESUME_CALL_HANDLING service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
10.4 MAP_PREPARE_GROUP_CALL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
10.5 MAP_PROCESS_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.6 MAP_FORWARD_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7 MAP_SEND_GROUP_CALL_END_SIGNAL service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
10.7A MAP_SEND_GROUP_CALL_INFO service		x		
10.7A.1 Definitions		x		
10.7A.2 Service primitives		x		
10.7A.3 Parameter definitions and use		x		
10.8 Void		x		
10.9 Void		x		
10.10 MAP_SET_REPORTING_STATE service.		x		
Definition		x		
Service primitives		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Parameter use		x		
10.11 MAP_STATUS_R EPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.12 MAP_REMOTE_U SER_FREE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.13 MAP_IST_ALERT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.14 MAP_IST_COMM AND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.15 MAP_RELEASE_ RESOURCES service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11 Supplementary services related services	-			
11.1 MAP_REGISTER_S S service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
11.2 MAP_ERASE_SS service		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Definition		x		
Service primitives		x		
Parameter use		x		
11.3 MAP_ACTIVATE_S S service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.4 MAP_DEACTIVAT E_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.5 MAP_INTERROGA TE_SS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
11.6 Void	-			
11.7 MAP_REGISTER_ PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.8 MAP_GET_PASSW ORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.9 MAP_PROCESS_U NSTRUCTURED_SS_ REQUEST service	-			
Definition	x			
Service primitives	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Parameter use	x			
11.10 MAP_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
11.11 MAP_UNSTRUCTURED_SS_NOTIFY service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
11.12 MAP_SS_INVOCATION_NOTIFY		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.13 MAP_REGISTER_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.14 MAP_ERASE_CC_ENTRY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12 Short message service management services	-			
12.1 MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Service primitives			x	Note 7
Parameter use	x			
12.2 MAP-MO-FORWARD-SHORT- MESSAGE service	-			
Definition	x			Note 9 , Note 17 , Note 26
Service primitives	x			Note 9 , Note 17 , Note 26
Parameter use		x		Note 17 , Note 26
12.3 MAP-REPORT-SM- DELIVERY- STATUS service	-			
Definition	x			Note 9 , Note 26
Service primitives	x			Note 9 , Note 26
Parameter use		x		
12.4 MAP-READY-FOR- SM service	-			
Definition		x		
Service primitives		x		
Parameter use		x		
12.5 MAP-ALERT-SERVICE- CENTRE service	-			
Definition	x			Note 8 , Note 26
Service primitives	x			Note 8 , Note 26
Parameter use		x		
12.6 MAP-INFORM-SERVICE- CENTRE service	-			
Definition	x			Note 7 , Note 26
Service primitives	x			Note 7 , Note 26
Parameter use	x			
12.7 MAP-SEND-INFO-FOR- MT-SMS service		x		
Definition		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
12.8 MAP-SEND-INFO-FOR-MO-SMS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12.9 MAP-MT-FORWARD-SHORT- MESSAGE service	-			
Definition	x			Note 26
Service primitives	x			Note 26
Parameter use	x			Note 26
12.10 MAP-MT-FORWARD-SM-FOR-VGCS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
13 Network-Requested PDP Context Activation services	-			
13.1 MAP_SEND_ROUTING_INFO_FOR_GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13.2 MAP_FAILURE_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
13.3 MAP_NOTE_MS_P RESENT_FOR_GPRS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
13A Location Service Management Services	-			
13A.1 MAP-SEND-ROU TING-INFO-FOR- LCS Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
13A.2 MAP-PROVIDE- SUBSCRIBER-LOCATI ON Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27
13A.3 MAP-SUBSCRIB ER-LOCATION-REPOR T Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use		x		Note 27
13A.4 Void	-			
Void	-			
Void	-			
Void	-			
13A.5 Void	-			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
13A.6 Void	-			
Void	-			
Void	-			
Void	-			
13A.7 Void	-			
Void	-			
Void	-			
Void	-			
13A.8 Void	-			
Void	-			
Void	-			
Void	-			
13A.9 Void	-			
Void	-			
Void	-			
Void	-			
14 General		x		
14.1 Overview		x		
14.2 Underlying services		x		
14.3 Model		x		
14.4 Conventions		x		
15 Elements of procedure	-			
15.1 Handling of unknown operations	x			
15.2 Dialogue establishment	x			
Behaviour at the initiating side	x			
Behaviour at the responding side	x			





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
15.3 Dialogue continuation	x			
15.4 Load control		x		
15.5 Procedures for MAP specific services	x			
Service invocation for unsecured dialogues		x		
Service invocation for secured dialogues		x		
Service invocation receipt for unsecured dialogues		x		
Service invocation receipt for secured dialogues		x		
Handling of components received from TC		x		
15.6 SDL descriptions			x	
16 Mapping on to TC services		x		
16.1 Dialogue control		x		
Directly mapped parameters	x			
Use of other parameters of dialogue handling primitives	-			
Dialogue Id	x			
Application-context-name	x			
User information	x			
Component present	x			
Termination	x			
P-Abort-Cause	x			
Quality of service	x			
16.2 Service specific procedures	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Directly mapped parameters	x			
Use of other parameters of component handling primitives	x			
Dialogue Id	x			
Class	x			
Linked Id	x			
Operation			x	Note 3
Error	x			
Parameters	x			
Time out	x			
Last component	x			
Problem code	x			
Mapping to MAP User Error	x			
Mapping to MAP Provider Error parameter	x			
Mapping to diagnostic parameter	x			
17 Abstract syntax of the MAP protocol	-			
17.1 General	x			
Encoding rules	x			
Use of TC	x			
Use of Global Operation and Error codes defined outside MAP		x		
Use of information elements defined outside MAP		x		
Compatibility considerations			x	Note 13 , Note 20 , Note 21
Structure of the Abstract Syntax of MAP			x	Note 3
Application Contexts			x	



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
17.2 Operation packages			x	
General aspects	x			
Packages specifications			x	
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
IMSI retrieval	x			
Call control transfer		x		
Secure transport		x		
Void	-			
Interrogation		x		
Void	-			
Handover Control		x		
Subscriber Data management stand alone		x		
Equipment management		x		
Subscriber data management		x		
Location register restart		x		
Tracing stand-alone		x		
Functional SS handling		x		
Tracing		x		
Binding		x		
Unstructured SS handling	x			
MO Short message relay services	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Short message gateway services	x			
MT Short message relay services	x			
Void	-			
Message waiting data management		x		
Alerting	x			
Data restoration		x		
Purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Void	-			
Gprs location updating		x		
Gprs Interrogation		x		
Failure reporting		x		
GPRS notifying		x		
Supplementary Service invocation notification		x		
Set Reporting State		x		
Status Report		x		
Remote User Free		x		
Call Completion		x		
Location service gateway services	x			
Location service enquiry	x			
17.2.2.45A Location service reporting	x			
Void	-			



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
MT Short message relay VGCS services	x			
17.3 Application contexts	-			
General aspects	x			
Application context definitions	x			
Void	-			
Location Updating		x		
Location Cancellation		x		
Roaming number enquiry		x		
Void	-			
Location Information Retrieval		x		
Call control transfer		x		
Secure transport		x		
Void	-			
Void	-			
Location registers restart		x		
Handover control		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
IMSI Retrieval	x			
Equipment Management		x		
Information retrieval	x			
Inter-VLR information retrieval		x		
Stand Alone Subscriber Data Management		x		
Tracing		x		
Network functional SS handling		x		
Network unstructured SS handling			x	
Short Message Gateway	x			
Mobile originating Short Message Relay	x			
Void	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminating Short Message Relay	x			
MS purging		x		
Subscriber information enquiry	x			
Any time information enquiry	x			
Group Call Control		x		
Group Call Info Retrieval		x		
Void	-			
Gprs Location Updating		x		
Gprs Location Information Retrieval		x		
Failure Reporting		x		
GPRS Notifying		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Supplementary Service invocation notification		x		
Reporting		x		
Call Completion		x		
Location Service Gateway		x		
Location Service Enquiry		x		
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
Mobile terminating Short Message Relay VGCS	x			
ASN.1 Module for application-context-names			x	Note 3
17.4 MAP Dialogue Information	x			Note 18
17.5 MAP operation and error codes			x	
17.6 MAP operations and errors			x	
Mobile Service Operations			x	

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Operation and Maintenance Operations			x	Note 19
Call Handling Operations		x		
Supplementary service operations			x	
Short message service operations			x	Note 7 , Note 8 , Note 28
Errors			x	
Group Call operations		x		
Location service operations	x			
Void	-			
17.7 MAP constants and data types	-			
17.7.1 Mobile Service data types			x	
17.7.2 Operation and maintenance data types		x		
17.7.3 Call handling data types			x	
17.7.4 Supplementary service data types			x	
17.7.5 Supplementary service codes			x	
17.7.6 Short message data types	x			
17.7.7 Error data types			x	Note 3
17.7.8 Common data types			x	
17.7.9 Teleservice Codes		x		
17.7.10 Bearer Service Codes		x		
17.7.11 Extension data types			x	





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
17.7.12 Group Call data types		x		
17.7.13 Location service data types	x			
17.7.14 Void	-			
18 General on MAP user procedures	-			
18.1 Introduction	x			
18.2 Common aspects of user procedure descriptions	-			
General conventions		x		
Naming conventions		x		
Convention on primitives parameters		x		
Open service	x			
Close service	x			
Version handling at dialogue establishment		x		
Behaviour at the initiating side		x		
Behaviour at the responding side		x		
Abort Handling		x		
SDL conventions	-			
18.3 Interaction between MAP Provider and MAP Users	x			
19 Mobility procedures	-			Note 4
19.1 Location management Procedures		x		Note 4
19.1.1 Location updating			x	Note 36
19.1.1.1 General	-		x	Note 36
19.1.1.2 Detailed procedure in the VLR	x			

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
19.1.13 Detailed procedure in the PVLR		x		
19.1.14 Detailed procedure in the SGSN		x		
19.1.1.5 Detailed procedure in the HLR	x			
19.1.2 Location Cancellation		x		
19.1.2.1 General		x		
19.1.2.2 Detailed procedure in the HLR		x		
19.1.2.3 Detailed procedure in the VLR		x		
19.1.2.4 Detailed procedure in the SGSN		x		
19.1.3 Void	-			
19.1.4 MS Purging		x		
General		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the HLR		x		
19.2 Handover procedures		x		
General		x		
Handover procedure in MSC-A		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		
Handover procedure in MSC-B		x		
Basic handover		x		
Handling of access signalling		x		
Subsequent handover		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Macro Receive_Error_From_HO_CA		x		
Procedure in VLR-B		x		
19.3 Fault recovery procedures		x		
VLR fault recovery procedures		x		Note 29
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
HLR fault recovery procedures		x		
General		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
19.4 Mobility Management Event notification procedure		x		
General		x		
Procedure in the VLR or SGSN		x		
Procedure in the gsmSCF		x		
19.5 HLR Insert Subscriber Data macros		x		
Macro Insert_Subscriber_Data_Framed_HLR		x		
Macro Insert_GPRS_Subscriber_Data_Framed_HLR		x		
20 Operation and maintenance procedures		x		
20.1 General		x		
Tracing Co-ordinator for the VLR		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Tracing Co-ordinator for the SGSN		x		
Subscriber Data Management Co-ordinator for the VLR		x		
Subscriber Data Management Co-ordinator for the SGSN		x		
Tracing procedures		x		
Subscriber tracing activation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber tracing deactivation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data management procedures		x		
Subscriber deletion procedure		x		
Procedure in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber data modification procedure		x		
Procedure in the HLR		x		
Procedures in the VLR		x		
Procedures in the SGSN		x		
Subscriber Identity procedure		x		
Procedure in the VLR		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Procedure in the HLR		x		
21 Call handling procedures		x		
21.1 General		x		
21.2 Retrieval of routing information		x		
General		x		
Procedure in the GMSC		x		
Process in the gsmSCF		x		
Procedure in the HLR		x		
Procedure in the VLR to provide a roaming number		x		
Procedure in the VLR to restore subscriber data		x		
Procedure in the VLR to provide subscriber information		x		
21.3 Transfer of call handling	-			
21.3.1 General	x			
21.3.2 Process in the VMSC	x			
21.3.3 Process in the GMSC	x			
21.4 Inter MSC Group Call Procedures		x		
General		x		
Process in the Anchor MSC		x		
Process in the Relay MSC		x		
21.4A A Inter MSC Group Call Info Retrieval		x		
21.4A.1 General		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
21.4A.2 Process in the MSC		x		
21.5 Void	-			
21.6 CCBS: monitoring and reporting the status of the subscriber		x		
Reporting co-ordinator process in the VLR		x		
Setting the reporting state stand-alone		x		
Process in the HLR		x		
Process in the VLR		x		
Status Reporting		x		
Process in the VLR		x		
Process in the HLR		x		
CCBS: Remote User Free		x		
Process in the HLR		x		
Process in the VLR		x		
21.7 Void	-			
21.8 Void	-			
21.9 Immediate Service Termination (IST)		x		
IST Alert		x		
Procedure in the MSC		x		
Procedure in the HLR		x		
IST Command		x		
Procedure in the HLR		x		
Procedure in the MSC		x		
21.10 Resource Management		x		
General 659		x		
Process in the GMSC		x		Numbered 21.3.3 in Reference [1]



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Process in the VMSC		x		Numbered 21.3.2 in Reference [1]
22 Supplementary services procedures		x		
22.1 Supplementary service co-ordinator processes		x		
Supplementary service co-ordinator process for the MSC		x		
Void	-			
Functional supplementary service co-ordinator process for the HLR		x		
Call completion supplementary service co-ordinator process for the HLR		x		
22.2 Registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.3 Erasure procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.4 Activation procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
22.5 Deactivation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedures in the HLR		x		
22.6 Interrogation procedure		x		
General		x		
Procedure in the MSC		x		
Procedures in the VLR		x		
Procedure in the HLR		x		
22.7 Void	-			
22.8 Password registration procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.9 Mobile Initiated USSD procedure	-			Note 37
General			x	Note 39
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
Procedures in the gsmSCF/secondary HLR		x		
22.10 Network initiated USSD procedure	-			Note 37
General			x	Note 38
Procedure in the MSC		x		
Procedure in the VLR		x		
Procedure in the HLR		x		





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Procedure in the gsmSCF or secondary HLR		x		
22.11 Common macros for clause 22		x		
SS Password handling macros		x		
Void	-			
22.12 Supplementary Service Invocation Notification procedure		x		
General		x		
Procedure in the MSC		x		
Procedure in the gsmSCF		x		
22.13 Activation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
22.14 Deactivation of a CCBS request		x		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		
23 Short message service procedures	-			
23.1 General	x			
Mobile originated short message service Co-ordinator for the MSC		x		
Short message Gateway Co-ordinator for the HLR		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
23.2 The mobile originated short message transfer procedure	x			
Procedure in the serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Interworking MSC (SMS-IWMSC)	x			
23.3 The mobile terminated short message transfer procedure	x			
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the Serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Router		x		
Procedure in the IP-SM-GW		x		
23.4 The Short Message Alert procedure		x		
Procedure in the Serving MSC - the MS has memory available		x		
Procedures in the VLR		x		
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedures in the SGSN		x		



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
The Mobile Subscriber is present		x		
The Mobile Equipment has memory available		x		
Procedure in the HLR		x		
Procedure in the SMS Interworking MSC	x			
23.5 The SM delivery status report procedure		x		
Procedure in the SMS-GMSC	x			
Procedure in the HLR		x		
Procedure in the IP-SM-GW		x		
23.6 The macro Report_SM_Delivery_Stat_HLR		x		
23.7 The mobile terminated short message transfer procedure for VGCS	x			
Procedure in the SMS-GMSC	x			
Procedure in the Anchor MSC	x			
24 GPRS process description		x		
24.1 Procedure for retrieval of routing information for GPRS		x		
Process in the GGSN		x		
Process in the HLR		x		
24.2 Procedure for reporting failure to establish a network requested PDP context		x		
Process in the GGSN		x		
Process in the HLR		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
24.3 Procedure for reporting that an MS has become reachable for GPRS		x		
Process in the HLR		x		
Process in the GGSN for Note Ms Present For Gprs		x		
24A CSE interrogation and control of subscriber data		x		
24A.1 General		x		
24A.2 Any Time Subscription Interrogation procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
24A.3 Any Time Modification procedure		x		
General		x		
Process in the gsmSCF		x		
Process in the HLR		x		
24A.4 Subscriber Data Modification Notification procedure		x		
General		x		
Process in the HLR		x		
Process in the gsmSCF		x		
24A.5 Any Time Interrogation procedure	-			
General	x			
Process in the gsmSCF	x			
Process in the HLR	x			
Process in the GMLC	x			
24B Location Service process description			x	Note 16



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
24B.1 Routing information retrieval procedure for LCS			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the HLR		x		
24B.2 Provide Subscriber Location procedure			x	Note 16
General			x	Note 16
Process in the GMLC	x			
Process in the MSC		x		
Process in the SGSN		x		
24B.3 Subscriber Location Report procedure			x	Note 16
General			x	Note 16
Process in the MSC		x		
Process in the SGSN		x		
Process in the GMLC	x			
25 General macro description	-			Note 37
25.1 MAP_OPEN handling macros	-			
25.1.1 Macro Receive_Open_Ind		x		
25.1.2 Macro Receive_Open_Cnf		x		
25.2 Macros to check the content of indication and confirmation primitives	-			
25.2.1 Macro Check_Indication		x		
25.2.2 Macro Check_Confirmation		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
25.3 The page and search macros	-			
25.3.1 Macro PAGE_MSC		x		
25.3.2 Macro Search_For_MS_MSC		x		
25.4 Macros for handling an Access Request	-			
25.4.1 Macro Process_Access_Request_MSC		x		
25.4.2 Macro Process_Access_Request_VLR		x		
25.4.3 Macro Obtain_Identity_VLR		x		
25.4.4 Process Update_Location_Child_VLR		x		
25.5 Authentication macros and processes	-			
25.5.1 Macro Authenticate_MSC		x		
25.5.2 Macro Authenticate_VLR		x		
25.5.3 Macro Obtain_Authent_Params_VLR		x		
25.5.4 Process Obtain_Authentication_Sets_VLR		x		
25.5.5 Process Obtain_Authent_Sets_SGSN		x		
25.5.6 Process Obtain_Authent_Sets_HLR		x		
25.5.7 Authentication Failure Reporting	-			
General		x		
Process in the VLR	-			Void
Process in the SGSN	-			Void
Process in the HLR	-			Void



Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
25.6 IMEI Handling Macros	-			
25.6.1 Macro Check_IMEI_MSC		x		
25.6.2 Macro Check_IMEI_VLR		x		
25.6.3 Process Check_IMEI_SGSN		x		
25.6.4 Process Check_IMEI_EIR		x		
25.6.5 Macro Obtain_IMEI_MSC		x		
25.6.6 Macro Obtain_IMEI_VLR		x		
25.7 Insert Subscriber Data macros and processes	-			
25.7.1 Macro Insert_Subs_Data_VLR		x		
25.7.2 Macro Insert_Subs_Data_SGSN		x		
25.7.3 Process Insert_Subs_Data_Stand_Alone_HLR		x		
25.7.4 Process Insert_GPRS_Subs_Data_Stand_Alone_HLR		x		
25.7.5 Macro Wait_for_Insert_Subs_Data_Cnf		x		
25.7.6 Macro Wait_for_Insert_GPRS_Subs_Data_Cnf		x		
25.7.7 Process Send_Insert_Subs_Data_HLR		x		
25.7.8 Process Insert_VCSG_Subs_Data_Stand_Alone_CSS		x		
25.7.9 Macro Wait_for_Insert_VCSG_Subs_Data_Cnf		x		

Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
25.7.10 Process Send_Insert_VCSG_Subs_Data_CSS		x		
25.8 Request IMSI Macros	-			
25.8.1 Macro Obtain_IMSI_MSC		x		
25.8.2 Macro Obtain_IMSI_VLR		x		
25.9 Tracing macros	-			
25.9.1 Macro Trace_Subscriber_Activity_MSC		x		
25.9.2 Macro Trace_Subscriber_Activity_VLR		x		
25.9.3 Macro Trace_Subscriber_Activity_SGSN		x		
25.9.4 Macro Activate_Tracing_VLR		x		
25.9.5 Macro Activate_Tracing_SGSN		x		
25.9.6 Macro Control_Tracing_With_VLR_HLR		x		
25.9.7 Macro Control_Tracing_With_SGSN_HLR		x		
25.10 Short Message Alert procedures	-			
25.10.1 Process Subscriber_Present_VLR		x		
25.10.2 Process SubscriberPresent_SGSN		x		
25.10.3 Macro Alert_Service_Centre_HLR		x		
25.10.4 Process Alert_SC_HLR		x		
Annex A (informative): ASN.1 Cross-reference listing and fully expanded sources	x			





Table 7 Compliance with UMTS 29.002, v.13.6.0

References	C	N	P	Comments
Annex B (informative): Void	-			
Annex C (informative): Message Segmentation Mechanisms	-			
C.1 SCCP segmentation	x			
C.2 TCAP segmentation	-			
C.2.1 Empty Begin		x		
C.2.2 Empty Continue		x		
C.2.3 TC-Result-NL		x		
C.3 MAP Segmentation	-			
C.3.1 Invoke without explicit indication		x		
C.3.2 Invoke with explicit indication		x		
C.3.3 Result		x		
Annex D (informative): Void	-			





## 3 Notes and Comments

### 3.1 Notes

[1] Some of this section involves the co-operation of the MAP-User or the configuration information or both.

[2] AC:s which refer to SMS, LCS and USSD are supported.].

[3] SMS messages, LCS and USSD services are supported.

[4] These refer to the sequence of events in the HLR, GMSC and/or the VLR when various MAP messages arrive. Message processing is not supported.

[5] MAP-AbortInformation is always empty

[6] Version look-up table is implemented, but not in the proposed way

[7] Only gateway MSC functionality supported

[8] Only interworking MSC functionality supported

[9] Servicing MSC version 1, 2 and 3 MobileOriginated SMS for MSC and Interworking MSC are supported. For version 1, 2 and 3 MobileTerminated SMS only Gateway MSC is supported

[10] TC-RESULT-NL not necessary for SMS

[13] For dialogues and most operations, the parameter Extension Container is not supported in outgoing messages. If present in incoming messages, it's ignored. Exceptions are the following operations with an AC of v3 defined in 3GPP TS 29.002 Reference [1], for which Extension Containers are fully supported :MAP-ANY-TIME-INTERROGATION, MAP-MT-FORWARD-SHORT-MESSAGE, MAP-PROVIDE-SUBSCRIBER-INFO, MAP-PROVIDE-SUBSCRIBER-LOCATION, MAP-SEND-ROUTING-INFO-FOR-LCS, MAP-SEND-ROUTING-INFO-FOR-SM, MAP-SUBSCRIBER-LOCATION-REPORT, MAP-RESUME-CALL-HANDLING, MAP-UPDATE-LOCATION

[14] LCS is supported.

[15] ATI, ATSI, ATM and SRI are supported.

[16] Only GMLC functionality is supported.

[17] The detailed reasons parameters in the " Facility Not Supported" user error is supported for the MAP-MO-FORWARD-SHORT-MESSAGE-Conf but not supported in the MAP-MO-FORWARD-SHORT-MESSAGE-Resp operation.

[18] Except for MAP-Close.

[19] Support for SendImsi Service.

[20] Future foreseen protocol extensions (marked with "..." in the standard), are generally not supported. One exception is within supported extension containers. Another exception is within ENUMERATED data types for which the standard proposes a way to handle "unknown" values. Exceptions are also the following operations with an AC of v3 defined in 3GPP TS 29.002 Reference [1], for which future protocol extensions are ignored if present in incoming messages: MAP-ANY-TIME-INTERROGATION, MAP-PROVIDE-SUBSCRIBER-INFO, MAP-PROVIDE-SUBSCRIBER-LOCATION, MAP-SEND-ROUTING-INFO-FOR-LCS, MAP-SUBSCRIBER-LOCATION-REPORT, MAP-ALERT-SERVICE-CENTRE V2 Ind, MAP-INFORM-SERVICE-CENTRE V3 Ind, MAP-MO-FORWARD-SHORT-MESSAGE V3 Ind, MAP-MT-FORWARD-SHORT-MESSAGE V3 Conf, MAP-REPORT-SM-DELIVERY-STATUS V3 Conf, MAP-SEND-ROUTING-INFO-FOR-SM V3 Conf

[21] Private extensions are only supported within supported extension containers. The only exception is within the MAP-OPEN service with an AC of v2, in which private extensions at the extension marker ("..." in the standard) are supported.

[22] Supported for the following operations defined in 3GPP TS 29.002 Reference [1]: MAP-ANY-TIME-INTERROGATION, MAP-PROVIDE-SUBSCRIBER-INFO, MAP-SEND-ROUTING-INFO-FOR-SM

[23] The "Network Resource" parameter is supported in the "System Failure" user error handling for the following operations defined in 3GPP TS 29.002 Reference [1]: MAP-ALERT-SERVICE-CENTRE, MAP-ANY-TIME-INTERROGATION, MAP-MO-FORWARD-SHORT-MESSAGE, MAP-MT-FORWARD-SHORT-MESSAGE MAP\_PROCESS\_UNSTRUCTURED\_SS\_REQUEST, MAP-PROVIDE-SUBSCRIBER-LOCATION, MAP-SEND-ROUTING-INFO-FOR-LCS, MAP-SEND-ROUTING-INFO-FOR-SM, MAP-SUBSCRIBER-LOCATION-REPORT, MAP\_UNSTRUCTURED\_SS\_NOTIFYMAP\_UNSTRUCTURED\_SS\_REQUEST

[24] The "Additional Network Resource" parameter is supported in the "System Failure" user error handling for the following operations defined in 3GPP TS 29.002 Reference [1]: MAP-ANY-TIME-INTERROGATION, MAP-MT-FORWARD-SHORT-MESSAGE, MAP-PROVIDE-SUBSCRIBER-LOCATION, MAP-SEND-ROUTING-INFO-FOR-LCS, MAP-SEND-ROUTING-INFO-FOR-SM, MAP-SUBSCRIBER-LOCATION-REPORT

[25] Wrong parameter number in 3GPP TS 29.002 V6.10.0 (2005-06); 7.6.10.X.

[26] The implementation of the following operations is compliant with 3GPP TS 29.002 V7.4.0 (2006-06), refer to : MAP-ALERT-SERVICE-CENTRE V2 Ind/Resp, MAP-INFORM-SERVICE-CENTRE V3 Ind, MAP-MO-FORWARD-SHORT-MESSAGE V3 Ind/Resp, MAP-MT-FORWARD-SHORT-MESSAGE V3 Req/Conf, MAP-REPORT-SM-DELIVERY-STATUS V3 Req/Conf, MAP-SEND-ROUTING-INFO-FOR-SM V3 Req/Conf

[27] The implementation of the following operations is compliant with 3GPP TS 29.002 V7.12.0, refer to Reference [1]: MAP-PROVIDE-SUBSCRIBER-LOCATION-V3-Req/Conf, MAP-SUBSCRIBER-LOCATION-REPORT-V3-Ind



[28] Group call anchor MSC functionality supported.

[29] Send Authentication Info is supported.

[30] The given parameter is supported in Location Information, Location Information GPRS and Subscriber Info.

[31] The given parameter is supported in Send Routing Info and Location Information GPRS.

[32] The given parameter is supported in Location Information, Location Information GPRS and Subscriber Info.

[33] The given parameter is supported in Subscriber Info.

[34] The given parameter is supported in Send Routing Info For SM Arg.

[35] The given parameter is supported in mt-Forward SM Arg. Reference [2]

[36] Only MSC/VLR - HLR nodes interworking is supported.

[37] There are no any implementations of the macros described in section 25 of MAP ETSI specification.

[38] Only functionality representing MAP\_UNSTRUCTURED\_SS\_REQUEST, MAP\_UNSTRUCTURED\_SS\_NOTIFY services is supported.

[39] Only functionality representing MAP\_PROCESS\_UNSTRUCTURED\_SS\_REQUEST service is supported.

[40] MAP ETSI is able of transferring IMEI parameter with length  $\leq 8$ . ASN.1 defines constant length of 8 octets for IMEI parameter.





# Glossary

**AC**  
Application Context

**ANSI**  
American National Standards Institute

**API**  
Application Program Interface

**ATI**  
Any Time Interrogation

**ASN.1**  
Abstract Syntax Notation 1

**BSS**  
Base Station System

**EAB**  
Ericsson AB

**EIR**  
Equipment Identity Centre

**ETSI**  
European Telecommunications Standards Institute

**GMLC**  
Gateway Mobile Location Centre

**GSM**  
Group Special Mobile

**gsmSCF**  
GSM Service Control Function

**HLR**  
Home Location Register

**ITU**  
International Telecommunication Union

**LCS**  
Location Services

**MAP**  
Mobile Application Part

**MS**  
Mobile Station

**MTP-L3**  
Message Transfer Part Layer 3

**OSI**  
Open Systems Interconnection

**PLMN**  
Public Land Mobile Network

**SCCP**  
Signaling Connection Control Part

**SMS**  
Short Message Services

**SS7**  
Signaling System No. 7

**SSN**  
SubSystem Number

**TCAP**  
Transaction Capabilities Application Part

**TTC**  
Japanese Telecommunication Technology Committee

**TUP**  
Telephone User Part

**USM**  
User State Machine

**USSD**  
Unstructured Supplementary Service Data







## Reference List

### ETSI Standards:

- [1] Mobile Application Part (MAP) specification; Release 9; 3GPP TS 29.002 V9.3.0
- [2] Mobile Application Part (MAP) specification; Release 10; 3GPP TS 29.002 V10.5.0