

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 n 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

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
The Mobile-services Switching Centre (MSC)	x			Note 1
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			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Modelling principles	x			
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			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
TMSI	x			
IMEI	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		
[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		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Service centre address	x			
Zone code		x		
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	-			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
SS-Code		x		
SS-Status		x		
SS-Data		x		
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]	-			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
SS-Info		x		
- 5.6.4.35 [spare]	-			
USSD Data Coding Scheme	-	x		
USSD String	-	x		
Call parameters	-			
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

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
SM Delivery Start Time	x			Note 35
Alert Reason	x			
Access and signalling system related parameters	-			
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		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Access management services		x		
Handover services		x		
Authentication management services	-			
MAP_AUTHENTICATE service		x		
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		

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
MAP_REGISTE R_SS service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_ERASE_S S service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_ACTIVAT E_SS service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_DEACTIV ATE_SS service		x		
Definitions		x		
Service primitive s		x		
Parameter use		x		
MAP_INTER ROGATE_SS service		x		
Definitions		x		
Service primitive s		x		
Parameter use		x		
MAP_INVOKE_ SS service		x		
Definitions		x		
Service primitive s		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
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_PROCESSED_UNSTRUCTURED_SS_REQUEST service		x		
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		

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
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
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			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
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			
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

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Receipt of a MAP-OPEN response	x			
Receipt of the first TC-CONTIN UE 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			
TC-U-ABORT ind	x			
Provider abort	x			
MAP PM error situation	x			
MAP-P-ABORT request	x			
TC-P-ABORT ind	x			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
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			
Receipt of a TC-NOTICE indication	x			
Other events	x			
Receipt of a TC-U-REJECT	x			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
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			
Directly mapped parameters	x			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
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-al one		x		
Functional SS handling		x		



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Tracing		x		
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		

Table 1 Compliance with GSM 09.02, v. 5.3.0

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			
[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			



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
MAP operation and error codes			x	Note 3 , Note 29
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		

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Bearer Service Codes		x		
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



Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
Supplementary services procedures		x		Note 4
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			

Table 1 Compliance with GSM 09.02, v. 5.3.0

References	C	N	P	Comments
The Short Message Alert procedure			x	Note 8
Procedures in the servicing MSC		x		
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	-			
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	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Interface between the HLR and the VLR	-			
Interface between the VLR and its associated MSC	-			
Interface between VLRs	-			
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			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
The mobile Switching Centre	x			
VL R response message		x		
HL R response message		x		
MSC Interaction during hand-over		x		
MSC for short message routing	x			
Home Location Register		x		
During Call Set up		x		
Location Updating		x		
VL R requests and responses		x		
MSC transactions		x		
VL R transactions		x		
Local MSC' s transactions		x		
HL R 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

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Specification principles	x			
Distribution of messages at the ASE/TCAP interface	x			
Mapping between MAP procedures and TCAP operations	x			
Location registration/cancellation	-			
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		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Procedures in the MSC		x		
Procedure in the VLR		x		
Procedures for deregistration in the HLR		x		
Handling of supplementary services	-			
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		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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	-			
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		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Procedures for retrieval of routing information		x		
Handover	-			
Definition of interfaces		x		
General overview of procedures	-			
List of procedures		x		
Basic handover procedure and procedure for requesting handover number		x		
Subsequent handover procedure		x		
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		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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	-			
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	-			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
Detailed procedures for insert subscriber data	-			
Procedures in HLR		x		
Procedures in VLR		x		
Detailed procedures for delete subscriber data	-			
Procedures in HLR		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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	-			
List of procedures		x		
Procedure for providing a trace request to the VLR		x		
Procedure for trace request cancellation in the VLR		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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	-			
Procedure for receiving the trace subscriber activity		x		
Procedure for requesting subscriber tracing at MSC-B		x		
Note internal handover	-			



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 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	-			
Procedure in originating entity (VLR or HLR)		x		
Procedure in receiving entity (HLR or VLR)		x		
Procedure for checking supplementary services	-			

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 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		
Authentication	-			
Definition of the interface		x		
Basic authentication procedure	-			
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 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	-			
General description of the procedure		x		
Detailed procedures in the VLR		x		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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			
Detailed description of the procedure	-			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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	-			
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	-			
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	-			
General description of access management procedures		x		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Process access signalling		x		
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		Note 40
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			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
Forward short message	x			
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		
IllegalMS	x			

Table 2 Compliance with GSM 09.02, v.3.11.0

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



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
NoSubscriberReply		x		
RadioCongestion		x		
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			

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
ExternalSignalInfo		x		
ASN.1 data types			x	Note 3
Identifiers definitions	x			
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		
IMSIId	x			
Msisdn	x			
OmclId		x		
Roaming Number		x		
Previous Roaming Number		x		
LocationInfo	x			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
RoutingInfo		x		
IncomingId		x		
Handover Number		x		
Forward To Number		x		
Called Number		x		
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		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
SS-Request		x		
SS-Subscription Option		x		
Forwarding Options		x		
Per Call Basis		x		
Notification To Hold Retrieve Party		x		
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		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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			
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



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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				
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

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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		



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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		

Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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		
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			



Table 2 Compliance with GSM 09.02, v.3.11.0

References	C	N	P	Comments
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	-			
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			

Table 3 Compliance with GSM 09.02, v 7.12.0

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
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		
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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-DELIMITED service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Void	-			
Void	-			
Void	-			
Void	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
Zone Code		x		
MSIsdn-Alert	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
Extensible Call barring information	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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 3 Compliance with GSM 09.02, v 7.12.0

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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
External Client List		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
GPRS-CSI	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
CAMEL subscrip tion 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/Re tention 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		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
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		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
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			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
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		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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 3 Compliance with GSM 09.02, v 7.12.0

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			
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			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Additional Location Estimate	x			
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			
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	-			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Void	-			
MAP_UPDAT E_LOCATION service		x		
Definition		x		
Service primitive s		x		
Parameter definitions and use		x		
MAP_CANCE L_LOCATION service		x		
Definition		x		
Service primitive s		x		
Parameter definitions and use		x		
MAP_SEND_ID ENTIFICATION service		x		
Definition		x		
Service primitive s		x		
Parameter definitions and use		x		
Void		x		
Void		x		
Void		x		
Void		x		
MAP_PURGE_ MS service		x		
Definition		x		
Service primitive s		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Parameter definitions and use		x		
MAP_UPDATE_GPRS_LOCATION service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
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_FOR_MS service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
Access management services	-			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP_PROCES S_ACCESS_RE QUEST service		x		
Definition		x		
Service primitive s		x		
Parameter definitions and use		x		
Handover services		x		
MAP_PREPAR E_HANDOVER service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_SEND_ END_SIGNAL service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_PROCES S_ACCESS_ SIGNALLING service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_FORWAR D_ACCESS_ 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 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		
MAP_SEND_HANDOVER_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Authentication management services	-			
MAP_AUTHENTICATE 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_AUTHENTICATION — INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_AUTHENTICATION_FAILURE_ REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Security management services	-			
MAP_SET_CIPHERING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
International mobile equipment identities management services	-			
MAP_CHECK_IMEI service		x		Note 40
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_OBTAIN_I MEI service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
Subscriber management services	-			
MAP-INSERT-S UBSCRIBER-DA TA service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
Basic service information related to supplementary services		x		
MAP-DELETE-S UBSCRIBER-DA TA service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
Identity manage ment services	-			
MAP-PROVIDE- IMSI service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Subscriber Information services	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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 primitive s		x		
Parameter definitions and use		x		
Operation and maintenance services	-			
Subscriber tracing services	-			
MAP-ACTIVATE -TRACE-MODE service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP-DEACTIVA TE-TRACE-MO DE service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP-TRACE-S UBSCRIBER- ACTIVITY service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Other operation and maintenance services	-			
MAP-SEND-IMS I service	-			
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		

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_PROCESsing_GROUP_CALL_SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_FORWARDING_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		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
10.7A MAP_S END_GROUP _CALL_INFO service		x		
10.7A.1 Definitio ns		x		
10.7A.2 Service primitives		x		
10.7A.3 Paramet er definitions and use		x		
Void		x		
Void		x		
MAP_SET_REP ORTING_STAT E service.		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_STATUS_ REPORT service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_REMOTE _USER_FREE service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_IST_ALER T 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_IST_COMMAND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_RELEASE_RESOURCES service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Supplementary services related services	-			
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		
MAP_ACTIVATE_SS 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_DEACTIV ATE_SS service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_INTER ROGATE_SS service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
Void	-			
MAP_REGISTE R_PASSWORD service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_GET_PAS SWORD service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_PROCES S_UNSTRUCTU RED_SS_ REQUEST service	-			
Definition	x			
Service primitive s	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Definition		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP-ALERT-SERVICE-CENTRE service	-			
Definition	x			Note 8 , Note 26
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



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
MAP-MT-FORWARD-SM-FOR-V GCS service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
Network-Requested PDP Context Activation services	-			
MAP_SEND_ROUTING_INFORMATION_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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Parameter definitions and use		x		
Location Service Management Services	-			
MAP-SEND-ROUTING-INFO-FOR-LCS Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
MAP-PROVIDE-SUBSCRIBE-LOCATION Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
MAP-SUBSCRIBE-LOCATION-REPORT Service	-			
Definition	x			
Service primitives	x			
Parameter definitions and use	x			
Void	-			
Void	-			
Void	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
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Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
General		x		
Overview		x		
Underlying services		x		
Model		x		
Conventions		x		
Elements of procedure	-			
Handling of unknown operations	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
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			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
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			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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	
Operation packages			x	
General aspects	x			
Packages specifications			x	
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		
Information retrieval	x			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
Short message gateway services	x			
MT Short message relay services	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
Application contexts	-			
General aspects	x			
Application context definitions	x			
Void	-			
Location Updating		x		
Location Cancellation		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
Mobile originating Short Message Relay	x			
Void	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Location Service Enquiry		x		
Void	-			
Void	-			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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	
MAP operations and errors			x	
Mobile Service Operations			x	
Operation and Maintenance Operations			x	Note 19
Call Handling Operations		x		
Supplementary service operations			x	



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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	
Teleservice Codes		x		
Bearer Service Codes		x		
Extension data types			x	
Group Call data types		x		
Location service data types	x			

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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 Users and MAP Users	x			
Mobility procedures		x		Note 4
Location management Procedures		x		Note 4
Location updating		x		
General	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Procedure in the HLR		x		
Handover procedures		x		
General		x		
Handover procedure in MSC-A		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
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
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		
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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Inter MSC Group Call Procedures		x		
General		x		
Process in the Anchor MSC		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Process in the VLR		x		
Void	-			
Void	-			



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Supplementary service co-ordinator process for the MSC		x		
Void	-			
Functional supplementary service co-ordinator process for the HLR		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
General		x		
Procedure in the MSC		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Procedures in the gsmSCF/secondary HLR		x		
Network initiated USSD procedure		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
General		x		
Procedure in the VLR		x		
Procedure in the HLR		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

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 serving MSC		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Procedure in the SMS Interworking MSC (SMS-IWMSC)	x			
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		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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			
The SM delivery status report procedure		x		
Procedure in the SMS-GMSC	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 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		
Process in the HLR		x		

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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
Process in the gsmSCF	x			
Process in the HLR		x		
Subscriber Data Modification Notification procedure		x		
General		x		



Table 3 Compliance with GSM 09.02, v 7.12.0

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

Table 3 Compliance with GSM 09.02, v 7.12.0

References	C	N	P	Comments
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		
Congestion control for Signalling System No. 7		x		
Compatibility	-			
General	x			
Strategy for selecting the Application Context (AC) version	x			



Table 4 Compliance with UMTS 29.002, v.9.3.0

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
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		
The Home Location Register (HLR)		x		
During call set-up		x		
Before location updating completion		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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-DELIMITED service	x			
MAP-U-ABORT service	x			
MAP-P-ABORT service	x			
MAP-NOTICE service	x			
Void	-			
Void	-			
Void	-			
Void	-			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
Target location area Id		x		
Target cell Id		x		
Target RNC Id		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
Zone Code		x		
MSIsdn-Alert	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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-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



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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 4 Compliance with UMTS 29.002, v.9.3.0

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 4 Compliance with UMTS 29.002, v.9.3.0

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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
Extension QoS-Subscribed			x	Note 22
SGSN CAMEL Subscription Info		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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 subscrip tion 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/Re tention priority		x		
ODB Info		x		
Suppress VT-CSI	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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 4 Compliance with UMTS 29.002, v.9.3.0

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			
GPRS Support Indicator	x			
SM-RP-MTI	x			
SM-RP-SMEA	x			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
Network signal information	x			
Network signal information 2	x			
Call Info		x		
Additional signal info	x			
System operation parameters		x		
Network resources			x	Note 23
Trace reference		x		
Trace reference 2		x		
Trace type		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
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			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
Area Event Info	x			
Velocity Estimate	x			
Accuracy Fulfilment Indicator	x			
MO-LR Short Circuit Indicator	x			
Target Serving Node for handover	x			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
Parameter definitions and use		x		
MAP_CANCEL_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_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		
MAP-NOTE-MM-EVENT		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		
Paging and search	-			
MAP_PAGE service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEARCH_FOR_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		
Service primitives		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		



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_SEND_HANDOVER_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Authentication management services	-			
MAP_AUTHENTICATE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_SEND_AUTHENTICATION – INFO service	x			
Definition	x			
Service primitives	x			
Parameter use	x			
MAP_AUTHENTICATION_FAILURE_REPORT 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
Security management services	-			
MAP_SET_CIPHERING_MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
International mobile equipment identities management services	-			
MAP_CHECK_IMEI service		x		Note 40
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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	-			
MAP-PROVIDE-IMS 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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
MAP-NOTE-SUBSCRIBER-DATA-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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Service primitives		x		
Parameter use		x		
MAP-DEACTIVATE-TRACE-MODE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP-TRACE-SUBSCRIBER-ACTIVITY service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
Other operation and maintenance services	-			
MAP-SEND-IMSI service	-			
Definition	x			
Service primitives	x			
Parameter use	x			
Call handling services	-			
MAP_SEND_ROUTING_INFORMATION service	-			
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_PROVIDE _ROAMING_ NUMBER service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_RESUME_ CALL_HANDLIN G service	x			
Definition		x		
Service primitive s		x		
Parameter use		x		
MAP_PREPARE _GROUP_CALL service		x		
Definition		x		
Service primitive s		x		
Parameter definitions and use		x		
MAP_PROCESS _GROUP CALL _SIGNALLING service		x		
Definition		x		
Service primitive s		x		
Parameter definitions and use		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP_FORWARD_GROUP_CALL_ SIGNALLING service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
MAP_SEND_GROUP_CALL_EN D_ 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_STAT E 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_STATUS_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_REMOTE_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_COMMAND service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_RELEASE_RESOURCES 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
Supplementary services related services	-			
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		
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	-			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
MAP_REGISTER_PASSWORD service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
MAP_GET_PASSWORD service		x		
Definition		x		
Service primitives		x		
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			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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
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

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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_ROUTING_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-ROUTING-INFO-FOR-LCS Service	-			
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-PROVIDE-SUBSCRIBE-LOCATION Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27
MAP-SUBSCRIBE-LOCATION-REPORT Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
Void	-			
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			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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	
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
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			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		
Mobility Management event notification		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Any time information handling		x		
Subscriber Data modification notification		x		
Authentication Failure Report		x		
Resource Management		x		
MT Short message relay VGCS services	x			
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 4 Compliance with UMTS 29.002, v.9.3.0

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			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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	
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	



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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	
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
Macro Insert_Sub s_Data_Fram e_HLR		x		
Macro Insert_GP RS_SubData_ Framed_HLR		x		
Operation and maintenance procedures		x		
General		x		
Tracing Co-ordin ator for the VLR		x		
Tracing Co-or dinator for the SGSN		x		
Subscriber Data Management Co-ordinator for the VLR		x		
Subscriber Data Management Co-ordinator for the SGSN		x		
Tracing procedu res		x		
Subscriber tracing activation procedure		x		
Procedures in the HLR		x		
Procedure in the VLR		x		
Procedure in the SGSN		x		
Subscriber traci ng deactivation procedure		x		
Procedures in the HLR		x		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
Procedure in the HLR		x		
Call handling procedures		x		
General		x		
Retrieval of routing information		x		
General		x		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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	-			

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
Void	-			
Void	-			
Immediate Service Termination (IST)		x		
IST Alert		x		
Procedure in the MSC		x		
Procedure in the HLR		x		
IST Command		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 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	-			
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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			
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		



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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		

Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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		
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			



Table 4 Compliance with UMTS 29.002, v.9.3.0

References	C	N	P	Comments
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
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			
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	-			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
VLR restoration		x		
During Network-Requested PDB Context Activation		x		
Before GPRS location updating completion		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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 5 Compliance with UMTS 29.002, v.10.8.0

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-DELIMITED 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	-			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
VLR number	x			
HLR Id		x		
LMSI	x			
MS ISDN	x			
OMC Id		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
VMSC Address	x			
Group Id		x		
North American Equal Access preferred Carrier Id	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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-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			
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
Routing 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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
Offered CAMEL4 CSIs in GMSC		x		
Offered CAMEL4 CSIs in VMSC		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
Privacy Notification to MS User		x		
GMLC List Withdraw		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
Extensible Call barring information for CSE		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
MNP Requested Info	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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 5 Compliance with UMTS 29.002, v.10.8.0

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			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
Paging Area		x		
Call Priority	x			
Radio parameters		x		
Void		x		
GERAN Classmark		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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-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			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
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			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
8.1.2.2 Service primitives	x			
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
8.2 Paging and search	-			
8.2.1 MAP_PAGING service		x		
Definition		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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_ HANDOVER		x		
Definition		x		
Service primitives		x		
Parameter use		x		
8.4.6 MAP_ALLOCATE_HANDOVER_ NUMBER 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		
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		
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		Note 40
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-SUBSCRIBE-R-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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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	-			



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			
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-NOTE-SUBSCRIBER-DATA-MODIFIED service		x		
Definition		x		
Service primitives		x		
Parameter definitions and use		x		
9 Operation and maintenance services	-			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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	-			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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		

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		
10.6 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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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_REMOTE_USER_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_COMMAND 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
10.15 MAP_REL EASE_RESOURCE service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11 Supplementary services related services	-			
11.1 MAP_REGISTER_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.2 MAP_ERASE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.3 MAP_ACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.4 MAP_DEACTIVATE_SS 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
11.5 MAP_INTE RROGATE_SS service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
11.6 Void	-			
11.7 MAP_REGI STER_PASSWO RD service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
11.8 MAP_GE T_PASSWORD service		x		
Definition		x		
Service primitive s		x		
Parameter use		x		
11.9 MAP_PRO CESS_UNSTRU CTURED_SS_ REQUEST service	-			
Definition	x			
Service primitive s	x			
Parameter use	x			
11.10 MAP_UN STRUCTURED_S S_REQUEST service	-			
Definition	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Service primitives	x			
Parameter use	x			
11.11 MAP_UNSTRUCTURED_SERVICE_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	-			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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
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		x		
Definition		x		
Service primitives		x		
Parameter use		x		
12.5 MAP-ALERT-SERVICE-CENTRE service	-			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Definition	x			Note 8 , Note 26
Service primitives	x			Note 8 , Note 26
Parameter use	x			
12.6 MAP-INFO-RM-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		
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



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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_SENDD_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		
13.3 MAP_NOTIFY_MS_PRESENT_FOR_GPRS service		x		
Definition		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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
13A.3 MAP-SUBSCRIBER-LOCATION-REPORT Service	-			
Definition	x			Note 27
Service primitives	x			Note 27
Parameter definitions and use	x			Note 27
13A.4 Void	-			



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
14.1 Overview		x		
14.2 Underlying services		x		
14.3 Model		x		
14.4 Conventions		x		
15 Elements of procedure	-			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
15.6 SDL descriptions			x	
16 Mapping on to TC services		x		
16.1 Dialogue control		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
Time out	x			
Last component	x			
Problem code	x			
Mapping to MAP User Error	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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	
Location updating		x		
Location cancellation		x		
Roaming number enquiry		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
Short message gateway services	x			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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	-			
Location Updating		x		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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 originatin g Short Message Relay	x			
Void	-			
Short message alert	x			
Short message waiting data management		x		
Mobile terminatin g 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 Retreival		x		
Failure Reporting		x		
GPRS Notifying		x		
Supplementary Service invocatio n 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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
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	-			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
Macro Receive_Error_From_HO_CA		x		
Procedure in VLR-B		x		
19.3 Fault recovery procedures		x		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
20.1 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		
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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		
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		



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		
22.4 Activation procedure		x		
General		x		
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		

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		
22.9 Mobile Initiated USSD procedure			x	
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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 5 Compliance with UMTS 29.002, v.10.8.0

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 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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			
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			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
Procedure in the SMS-GMSC	x			
Procedure in the Anchor MSC	x			
24 GPRS processes 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		
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		



Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
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			

Table 5 Compliance with UMTS 29.002, v.10.8.0

References	C	N	P	Comments
24B Location Service process description			x	Note 16
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			



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		
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

Table 6 Compliance with UMTS 29.002, v.12.4.0

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		
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 6 Compliance with UMTS 29.002, v.12.4.0

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
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			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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	-			
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
Supported CAMEL Phases in interrogating node		x		
CUG Subscription Flag	x			
CAMEL Subscription Info Withdraw		x		
Voice Group Call Service (VGCS) Data		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
D-IM-CSI	x			
VT-IM-CSI	x			
Void	-			
Void	-			
Void	-			
CCBS Feature		x		
UU Data	x			
UUS CF Interaction	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
Chosen Radio Resource Information		x		
Key Status		x		
Selected UMTS Algorithms		x		
Allowed GSM Algorithms		x		
Allowed UMTS Algorithms		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
Failure cause		x		
Re-attempt		x		
Access Type		x		
Short message parameters	-			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
IP-SM-GW Indicator	x			
Access and signalling system related parameters		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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	-			
Age of Location Estimate	x			
Deferred MT-LR Response Indicator	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
Cell Id Or SAI	x			
LCS-Reference Number	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

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			
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			
8.1.2.3 Parameter definitions and use		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
8.2 Paging and search	-			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
8.4.3 MAP_PROCESS_ACCESS_SIGNALLING 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		
8.4.4 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		
Definition		x		
Service primitives		x		
Parameter use		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
8.5.2 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		Note 40
Definition		x		
Service primitives		x		
Parameter use		x		
8.7.2 MAP_OBTAIN_IMEI 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
8.8 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		
Service primitives		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Parameter definitions and use		x		
8.10.2 MAP_FORWARDED_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			
Service primitives	x			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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_PRO CESS_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_GR OUP_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_R EPORTING_STATE 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		
10.11 MAP_STATUS_REPORT service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
10.12 MAP_REMOTE_USER_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_COMMAND 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_SS 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		
11.2 MAP_ERASE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.3 MAP_ACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.4 MAP_DEACTIVATE_SS service		x		
Definition		x		
Service primitives		x		
Parameter use		x		
11.5 MAP_INTERROGATE_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_PASSWORD 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
11.9 MAP_PROCESS_UNSTRUCTURED_SS_REQUEST service	-			
Definition	x			
Service primitives	x			
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Parameter use		x		
12 Short message service management services	-			
12.1 MAP-SEND-ROUTING-INFO-FOR-SM service	-			
Definition			x	Note 7
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

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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	-			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
Parameter definitions and use	x			Note 27
13A.3 MAP-SUBSCRIBER-LOCATION-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	-			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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	
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	-			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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	-			
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 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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 6 Compliance with UMTS 29.002, v.12.4.0

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		
Location Service Enquiry		x		
Void	-			
Void	-			
Void	-			
IST Alerting		x		
Service Termination		x		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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	
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	-			



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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	
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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]
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	-			

Table 6 Compliance with UMTS 29.002, v.12.4.0

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		
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		
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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			



Table 6 Compliance with UMTS 29.002, v.12.4.0

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		
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		
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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
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		
24B.2 Provide Subscriber Location procedure			x	Note 16
General			x	Note 16

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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		
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		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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
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		

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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_Subscriber_Data_VLR		x		
25.7.2 Macro Insert_Subscriber_Data_SGSN		x		
25.7.3 Process Insert_Subscriber_Data_Stand_Alone_HLR		x		
25.7.4 Process Insert_GPRS_Subscriber_Data_Stand_Alone_HLR		x		
25.7.5 Macro Wait_for_Insert_Subscriber_Data_Cnf		x		
25.7.6 Macro Wait_for_Insert_GPRS_Subscriber_Data_Cnf		x		
25.7.7 Process Send_Insert_Subscriber_Data_HLR		x		
25.7.8 Process Insert_VCSG_Subscriber_Data_Stand_Alone_CSS		x		
25.7.9 Macro Wait_for_Insert_VCSG_Subscriber_Data_Cnf		x		
25.7.10 Process Send_Insert_VCSG_Subscriber_Data_CSS		x		
25.8 Request IMSI Macros	-			
25.8.1 Macro Obtain_IMSI_MSC		x		
25.8.2 Macro Obtain_IMSI_VLR		x		



Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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			
Annex B (informative): Void	-			
Annex C (informative): Message Segmentation Mechanisms	-			
C.1 SCCP segmentation	x			

Table 6 Compliance with UMTS 29.002, v.12.4.0

References	C	N	P	Comments
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-INFORMATION

[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-LOCATI
ON-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_S
S_REQUEST service is supported.

[40] Depending on configuration parameter special handling of TagId="0x00"
is supported.





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*