

SS7 CAF Statement of Compliance Overview

STATEMENT OF COMPLIANCE

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1 Introduction

This document provides general information about compliances with standards for the SS7 CAF.





2 Statement of Compliance Definitions

One of the following statements is given to each standard specification:

- **Compliant** – The functionality that is provided has been implemented in accordance with relevant and mandatory requirements in the specification. Possible limitations in the functionality are summarized.
- **Partially Compliant** – Part of the functionality that is provided has either been implemented in a way that is deviating from relevant and mandatory requirements in the specification or there are functionality that have not been implemented.
- **Not Compliant** – The functionality that is provided has been implemented in a way that is deviating from relevant and mandatory requirements in the specification.





3 Standards

This section describes the standards with which the SS7 CAF is compliant.

3.1 ANSI

The compliance for each specification is described in Table 1.

Table 1 ANSI Specifications

Specification/Version	Title	Compliance	Comment
ANSI T1.113, 1995	Signalling System No. 7 (SS7) - Integrated Services Digital Network (ISDN) User Part	Partly Compliant	ISUP, see Reference [2] for details.
ANSI T1.115, 1990	Signalling System No. 7 (SS7) - Monitoring and Measurements for Networks	Partly Compliant	ISUP, see Reference [2] for details.
ANSI-41.2-D, December 1997	Cellular Radiotel ecommunications Intersystem Operations: Intersystem Handoff Information Flows	Partly Compliant	MAP, see Reference [8] for details.
ANSI-41.3-D, December 1997	Cellular Radiotel ecommunications Intersystem Operations: Automatic Roaming Informations Flow	Partly Compliant	MAP, see Reference [8] for details.
ANSI-41.4-D, December 1997	Cellular Radiotel ecommunications Intersystem Operations: OA & M Information Flows and Procedures	Partly Compliant	MAP, see Reference [8] for details.
ANSI-41.5-D, December 1997	Cellular Radiotel ecommunications Intersystem Operations: Signaling Protocols	Partly Compliant	MAP, see Reference [8] for details.

Table 1 ANSI Specifications

Specification/Version	Title	Compliance	Comment
ANSI-41.6-D, December 1997	Cellular Radiotel ecomunications Intersystem Operations: Signaling Procedures	Compliant	MAP, see Reference [8] for details.
TR-45, IS-751 (PN-3892), Publication version(7), February 1998	TIA/EIA-41-D Modifications to support IMSI	Partly Compliant	MAP, see Reference [8] for details.
TR-45, IS-725-A (PN-4173), March 1999	TIA/EIA-41-D Enhancements for Over-The-Air Service Provisioning (OTASP) & Parameter Administration (OTAPA)	Partly Compliant	MAP, see Reference [8] for details.
TR-45, J-STD-036, July 2000	Enhanced Wireless 9-1-1 Phase 2	Partly Compliant	MAP, see Reference [8] for details.
TR-45, IS-730, July 1997	IS-136 (DCCH) Support in IS-41	Partly Compliant	MAP, see Reference [8] for details.
TR-45, IS-764 (PN-4103), June 1998	Wireless Name Feature Description	Partly Compliant	MAP, see Reference [8] for details.
TR-45, IS-771 (PN-3661), December 1998	WIN TIA/EIA-41-C Modifications	Partly Compliant	MAP, see Reference [8] for details.
TR-45, IS-826 (PN-4287), Pre-Published, May 2000	Wireless Intelligent Network Capabilities for Pre-Paid Charging (WIN Phase 2 part 1)	Partly Compliant	MAP, see Reference [8] for details.
TR45.2, IS-841, September 2000	Enhancements for MDN based Message Centres	Partly Compliant	MAP, see Reference [8] for details.
ANSI T1.112, 1996	Specification of signaling System No. 7 (SS7) - Functional Description of the signaling System - signaling Connection Control Part (SCCP)	Partly Compliant	SCCP, see Reference [16] for details.



Table 1 ANSI Specifications

Specification/Version	Title	Compliance	Comment
ANSI T1.116, 1996	Monitoring and Measurements for signaling System Number 7 Networks	Partly Compliant	SCCP, see Reference [16] for details.
ANSI T1.111, 1996	Specification of Signaling System No. 7 (SS7) - Message Transfer Part (MTP)	Partly Compliant	MTPL3, see Reference [21] for details.
ANSI T1.115, 1990	Specification of Signaling System No. 7 (SS7) - Monitoring and Measurements for Networks	Partly Compliant	MTPL3, see Reference [21] for details.
ANSI T1.111, 2001	Specification of Signaling System No. 7 (SS7) - Message Transfer Part (MTP)	Partly Compliant	MTPL3, see Reference [22] for details.
ANSI T1.114, 2000	Signaling System No. 7 (SS7) - Transaction Capabilities Application Part (TCAP)	Partly Compliant	TCAP, see Reference [28] for details.
ANSI T1.115, 1990	Signaling System No. 7 (SS7) - Monitoring and Measurement for Networks	Partly Compliant	TCAP, see Reference [28] for details.

3.2 ITU-T

The compliance for each specification is described in Table 2.

Table 2 ITU-T Specifications

Specification	Title	Compliance	Comment
Q.761, 1999	Functional Description of the Integrated Services Digital Network (ISDN) User Part of Signaling System No. 7 (SS7)	Partly Compliant	ISUP, see Reference [3] for details.

Table 2 ITU-T Specifications

Specification	Title	Compliance	Comment
Q.762, 1999	Integrated Services Digital Network (ISDN) User Part of Signaling System No. 7 (SS7). General Function of Messages and Signals	Partly Compliant	ISUP, see Reference [3] for details.
Q.763, 1999	Integrated Services Digital Network (ISDN) User Part of Signaling System No. 7 (SS7). Formats and Codes	Partly Compliant	ISUP, see Reference [3] for details.
Q.764, 1999	Integrated Services Digital Network (ISDN) User Part of Signaling System No. 7 (SS7). Signaling Procedures	Partly Compliant	ISUP, see Reference [3] for details.
Q.730, 1999	ISDN Supplementary Services	Partly Compliant	ISUP, see Reference [3] for details.
Q.752, 1999	Monitoring and Measurements for Signaling System No 7 Networks	Partly Compliant	ISUP, see Reference [3] for details.
Q.1228 Fascile 1/5, 09/97	Interface Recommendation for Intelligent Network Capability Set 2: Part 1	Partly Compliant	INAP, see Reference [13] for details.
Q.711, 07/96	Functional description of the signaling Connection Control Part.	Partly Compliant	SCCP, see Reference [17] for details.
Q.712, 07/96	Definition and Function of signaling connection control part messages	Partly Compliant	SCCP, see Reference [17] for details.
Q.713, 07/96	Signaling Connection Control Part format and codes	Partly Compliant	SCCP, see Reference [17] for details.
Q.714, 07/96	Signaling connection control part procedures	Partly Compliant	SCCP, see Reference [17] for details.



Table 2 ITU-T Specifications

Specification	Title	Compliance	Comment
Q.752, 06/97	Monitoring and measurements for signaling System No. 7 networks	Partly Compliant	SCCP, see Reference [17] for details.
Q.701, 03/93	Functional Description of the Message Transfer Part (MT) of Signaling System No. 7	Partly Compliant	MTPL3, see Reference [23] for details.
Q.704, 07/96	Signaling System No. 7 - Signaling Network Functions and Messages	Partly Compliant	MTPL3, see Reference [23] for details.
Q.705, 03/93	Signaling System No. 7 - Signaling Network Structure	Partly Compliant	MTPL3, see Reference [23] for details.
Q.707, 11/88	Testing and Maintenance	Compliant	MTPL3, see Reference [23] for details.
Q.752, 06/97	Monitoring and Measurements for SS7 Networks	Partly Compliant	MTPL3, see Reference [23] for details.
Q.2210, 07/96	MTP level 3 functions and messages using the services of ITU-T recommendation Q.2140	Partly Compliant	MTPL3, see Reference [23] for details.
Q.752, 06/97	Monitoring and Measurements for Signaling System No.7 Networks	Partly Compliant	TCAP, see Reference [29] for details.
Q.771, 06/97	Signaling System No.7 - Function Description of Transaction Capabilities	Partly Compliant	TCAP, see Reference [29] for details.
Q.772, 06/97	Signaling System No.7 - Transaction Capabilities Information Element Definitions	Compliant	TCAP, see Reference [29] for details.
Q.773, 06/97	Signaling System No.7 - Transaction Capabilities Formats and Encoding	Partly Compliant	TCAP, see Reference [29] for details.

Table 2 ITU-T Specifications

Specification	Title	Compliance	Comment
Q.774, 06/97	Signaling System No.7 - Transaction Capabilities Procedures	Partly Compliant	TCAP, see Reference [29] for details.
Q.775, 06/97	Signaling System No.7 - Guidelines for Using Transaction Capabilities	Partly Compliant	TCAP, see Reference [29] for details.

3.3 TTC

The compliance for each specification is described in Table 3.

Table 3 TTC Specifications

Specification	Title	Compliance	Comment
JT-Q.761,1997	Functional Description of the Integrated Services Digital Network (ISDN) User Part of Signalling System No. 7	Partly Compliant	ISUP, see Reference [4] for details.
JT-Q.762, 1997	Integrated Services Digital Network (ISDN) User Part of Signalling System No. 7 (SS7). General Function of Messages and Signals	Partly Compliant	ISUP, see Reference [4] for details.
JT-Q.763, 1997	Integrated Services Digital Network (ISDN) User Part of Signalling System No. 7 (SS7). Formats and Codes	Partly Compliant	ISUP, see Reference [4] for details.
JT-Q.764, 1997	Integrated Services Digital Network (ISDN) User Part of Signalling System No. 7 (SS7). Signalling Procedures	Partly Compliant	ISUP, see Reference [4] for details.
JT-Q.711, version 2, April 23, 1997	Functional Description of SCCP	Partly Compliant	SCCP, see Reference [18] for details.



Table 3 TTC Specifications

Specification	Title	Compliance	Comment
JT-Q.712, version 3, April 23, 1997	Definition and Function of SCCP Messages	Partly Compliant	SCCP, see Reference [18] for details.
JT-Q.713, version 8, April 20, 2000	SCCP Formats and Codes	Partly Compliant	SCCP, see Reference [18] for details.
JT-Q.714, version 3, April 23, 1997	SCCP Procedures	Partly Compliant	SCCP, see Reference [18] for details.
JT-Q.701, Version 2, Nov. 28, 1990	Message Transfer Part, Functional Description of the Signalling System	Partly Compliant	MTPL3, see Reference [24] for details.
JT-Q704, Version 4, May 30, 2002	Message Transfer Part (MTP) , Signaling Network Functions	Partly Compliant	MTPL3, see Reference [24] for details.
JT-Q707, Version 2, Nov. 28, 1990	Message Transfer Part, Testing and Maintenance	Compliant	MTPL3, see Reference [24] for details.
JT-Q2210, Version 1, Apr. 24, 1996	Message Transfer Part Level 3 Functions and Messages Using the Services of TTC Standard JT-Q2140	Partly Compliant	MTPL3, see Reference [24] for details.
JT-Q771, 1997	Function Description of Transaction Capabilities	Compliant	TCAP, see Reference [30] for details.
JT-Q772, 1997	Transaction Capabilities Information Element Definitions	Compliant	TCAP, see Reference [30] for details.
JT-Q773, 1997	Transaction Capabilities Formats and Encoding	Partly Compliant	TCAP, see Reference [30] for details.
JT-Q774, 1997	Transaction Capabilities Procedures	Compliant	TCAP, see Reference [30] for details.

3.4 ETSI

The compliance for each specification is described in Page 12.

Table 4 ETSI Specifications

Specification	Title	Compliance	Comment
ETS 300 356, 2001	Integrated Services Digital Network (ISDN); Signalling System No. 7; ISDN User Part (ISUP) for the international interface	Partly Compliant	ISUP, see Reference [5] for details.
ETS 300 374-1, September 1994	Intelligent Network Capability Set 1 (CS1), Core Intelligent Network Application Protocol (INAP) Part 1: Protocol Specification	Partly Compliant	INAP, see Reference [13] for details.
GSM (TS 101 046) 09.78, 7.1.0 Release 1998	Digital Cellular Telecommunications System (Phase 2+); Customised Applications for Mobile Network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) Specification	Partly Compliant	INAP, see Reference [13] for details.
GSM 09.02, Version 5.3.0	Mobile Application Part (MAP) Specification	Partly Compliant	MAP, see Reference [11] for details.
GSM 09.02, Version 3.11.0	Mobile Application Part (MAP) Specification	Partly Compliant	MAP, see Reference [11] for details.
EN 300 009-1, v1.4.3, 2001-02	Signaling System No.7 SCCP (connectionless and connection-orientated) to support international interconnection Part 1: Protocol specification	Partly Compliant	SCCP, see Reference [19] for details.
ETS 300 008-1 V1.3.2, June 2003	ISDN SS7 MTP to support international interconnection	Partly Compliant	MTPL3, see Reference [25] for details.



Table 4 ETSI Specifications

Specification	Title	Compliance	Comment
EN 301 004-1 V1.1.3, 1998-02	B-ISDN SS7 MTP-L3 to support international interconnection	Compliant	MTPL3, see Reference [25] for details.
ETSI ETS 300 287-1, November 1996	Integrated Services Digital Network (ISDN); Signaling System No. 7; Transaction Capabilities (TC) version 2; Part 1: Protocol Specification	Compliant	TCAP, see Reference [31] for details.

3.5 3GPP

The compliance for each specification is described in Page 13.

Table 5 3GPP Specifications

Specification	Title	Compliance	Comment
TS 49.031 V9.0.0/V10.0.0	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	Partly Compliant	BSSAP, see Reference [15] for details.
TS 48.071 V9.3.0/V10.3.0	Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 specification	Compliant	BSSAP, see Reference [15] for details.
3GPP TS 29.078 V4.8.0	Customised Applications for Mobile Network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) Specification	Partly Compliant	INAP, see Reference [13] for details.

Table 5 3GPP Specifications

Specification	Title	Compliance	Comment
3GPP TS 29.078 V7.4.0	Digital Cellular Telecommunications System (Phase 2+); Universal Mobile Telecommunications System (UMTS); Customized Applications for Mobile Network Enhanced Logic (CAMEL) Phase X; CAMEL Application Part (CAP) Specification	Partly Compliant	INAP, see Reference [13] for details.
3GPP TS 29.078 V9.2.0	Digital Cellular Telecommunications System (Phase 2+); Universal Mobile Telecommunications System (UMTS); Customized Applications for Mobile Network Enhanced Logic (CAMEL) Phase X; CAMEL Application Part (CAP) Specification	Partly Compliant	INAP, see Reference [13] for details.
3GPP TS 29.002 V9.3.0	Mobile Application Part (MAP) specification	Partly Compliant	MAP, see Reference [11] for details.
3GPP TS 29.002 V10.8.0	Mobile Application Part (MAP) specification	Partly Compliant	MAP, see Reference [11] for details.
3GPP TS 29.002 V12.4.0	Mobile Application Part (MAP) specification	Partly Compliant	MAP, see Reference [11] for details.

3.6 IETF

The compliance for each specification is described in Page 15.



Table 6 IETF Specifications

Specification	Title	Compliance	Comment
RFC 4666, September 2006	Signaling System 7 (SS7) Message Transfer Part 3 (MTP3) - User Adaptation Layer (M3UA)	Partly Compliant	MTPL3, see Reference [27] for details.
RFC 4960, September 2007	Stream Control Transmission Protocol	Partly Compliant	SCTP, see Reference [33] for details.
RFC 1191, November 1990	Path MTU Discovery	Partly Compliant	SCTP, see Reference [34] for details.
RFC 1981, August 1996	Path MTU Discovery for IP version 6	Partly Compliant	SCTP, see Reference [34] for details.
RFC 4820, March 2007	Pudding Chunk and Parameter for the Stream Control Transmission Protocol (SCTP)	Partly Compliant	SCTP, see Reference [34] for details.
RFC 4821, March 2007.	Packetization Layer Path MTU Discovery	Partly Compliant	SCTP, see Reference [34] for details.
RFC 5062, September 2007	Security Attacks Found Against the Stream Control Transmission Protocol (SCTP) and Current Countermeasures	Partly Compliant	SCTP, see Reference [35] for details.

3.7 Ministry of Posts and Telecommunication P.R.C.

The compliance for each specification is described in Page 15.

Table 7 Chinese Specifications

Specification	Title	Compliance	Comment
CHINESE, 1996.1	Technical Specification of ISUP	Partly Compliant	ISUP, see Reference [6] for details.
CHINESE, 1994.10	Technical Specification of SCCP	Partly Compliant	SCCP, see Reference [20] for details.
GF 001 9001, August 1990	Technical Specifications of SS7 for the National Telephone Network of China	Partly Compliant	MTPL3, see Reference [26] for details.

Table 7 Chinese Specifications

Specification	Title	Compliance	Comment
GF 001-9001, October 1991	Supplement 1 to Specification GF 001-9001	Partly Compliant	MTPL3, see Reference [26] for details.
GF 001-9001, October 1991	Supplement 2 to Specification GF 001-9001	Compliant	MTPL3, see Reference [26] for details.
GF 001-9001, October 1991	Supplement 3 to Specification GF 001-9001	Compliant	MTPL3, see Reference [26] for details.
CHINESE, 1994.10	Technical Specification of TCAP	Partly Compliant	TCAP, see Reference [32] for details.

3.8 3GPP2

The compliance for each specification is described in Page 16.

Table 8 3GPP2 Specifications

Specification	Title	Compliance	Comment
X.S0004-540-E, July, 2007, version 2.0	MOBILE APPLICATION PART (MAP) - Operation Signaling Protocols	Partly Compliant	MAP, see Reference [8] for details.
X.S0004-550-E, January 2010, version 4.0	MOBILE APPLICATION PART (MAP) - Parameters Signaling Protocols	Partly Compliant	MAP, see Reference [8] for details.

3.9 TIA

The compliance for each specification is described in Page 17.



Table 9 TIA Specifications

Specification	Title	Compliance	Comment
J-STD-036-AD-2, March 2002	Enhanced Wireless 9-1-1 Phase 2	Partly Compliant	MAP ANSI EXT API, see Reference [9] for details.
TIA/EIA IS-848, October 2000	Wireless Intelligent Network Capabilities for Enhanced Charging Services, Chapter 5, Modifications to TIA/EIA-41.5-D	Partly Compliant	MAP ANSI EXT API, see Reference [9] for details.

3.10 UK

The compliance for each specification is described in Page 17.

Table 10 UK Specifications

Specification	Title	Compliance	Comment
UK Standard rec. ND1007:2007/01 TSG/SPEC/007	ISDN User Part (ISUP)	Partly Compliant	ISUP, see Reference [7] for details.

3.11 TELCORDIA

The compliance for each specification is described in Page 17.

Table 11 TELCORDIA Specifications

Specification	Title	Compliance	Comment
GR-1299-CORE, Issue 10, November 2004	AINGR: Switch - Service Control Point (SCP)/Adjunct Interface	Partly Compliant	AIN, see Reference [1] for details.

3.12 TDMA Forum

The compliance for each specification is described in Page 18.

Table 12 TDMA Specifications

Specification	Title	Compliance	Comment
TDMA forum, December 24, 1996, version 1.1	Interim Over-the-Air-Activation specification	Partly Compliant	MAP, see Reference [8] for details.

3.13 Ericsson Proprietary Extensions

The compliance for each specification is described in Page 18.

Table 13 Ericsson Specifications

Specification	Title	Compliance	Comment
Proprietary, rev. A	Technical Report, Mobile Positioning, Stage 3 Description for the ANSI 41 messages	Partly Compliant	MAP ANSI Proprietary Operations, see Reference [10] for details.
Proprietary, rev. A	IS-41 Interface with Prepaid Administration System (PPAS)	Partly Compliant	MAP ANSI Proprietary Extensions, see Reference [10] for details.
Proprietary, rev. B	Protocol Specification for Enhanced IMEI Check in MSC/VLR	Partly Compliant	MAP ETSI Ericsson Specific Standard, see Reference [12] for details.
Proprietary, rev. A	Protocol Specification for Redundancy in HLR	Compliant	MAP ETSI Ericsson Specific Standard, see Reference [12] for details.
Proprietary, rev. B	Ericsson INAP CS1+, Operation and Parameter Descriptions, Detailed Operation Procedures	Partly Compliant	INAP Addendum for CS1+, see Reference [14] for details.
Proprietary, rev. B	Ericsson INAP CS1+, Abstract Syntax	Partly Compliant	INAP Addendum for CS1+, see Reference [14] for details.
Proprietary, rev. A	Ericsson INAP CS1+, Services Assumed from TCAP	Partly Compliant	INAP Addendum for CS1+, see Reference [14] for details.



Reference List

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- [2] ISUP ANSI, State of Compliance, 6/174 02-CAA 201 80 Uen
- [3] ISUP ITU, State of Compliance, 5/174 02-CAA 201 80 Uen
- [4] ISUP TTC, State of Compliance, 3/174 02-CAA 201 80 Uen
- [5] ISUP ITU, ETSI 2001, State of Compliance, 8/174 02-CAA 201 80 Uen
- [6] ISUP ITU, CHINESE 1996, State of Compliance, 9/174 02-CAA 201 80 Uen
- [7] ISUP UK, State of Compliance, 10/174 02-CAA 201 80 Uen
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- [16] SCCP ANSI/ITU/TTC/CHINESE ANSI 1996, State of Compliance, 2/174 02-CAA 901437 Uen
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- [35] SCTP IETF RFC 5062, State of Compliance, 4/174 02-CAA 901 548 Uen