

SS7 MTP-L3 and M3UA IETF TTC 2002

STATEM OF COMPLIANCE

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1 GENERAL

1.1 Introduction

This document describes to what extent the Ericsson SS7 MTPL3& M3UA IETF signaling component conforms with the standards Reference [1], Reference [2], Reference [3], and Reference [4].

1.2 Concept

The terms that are used are:

C	The Ericsson signaling component complies with the specified section in the standard.
N	The Ericsson signaling component does not comply with the specified section in the standard.
P	The Ericsson signaling component complies partly with the specified section in the standard.
-	There is nothing to implement in the referred section (always placed in column C).





2 Compliance Lists

2.1 JT-Q701

Table 1

References	C	N	P	Comments
1. Introduction	X			
2. Signaling system structure	X			
3. Message Transfer Part and the signaling network	-			
3.1 General	-			
3.1.1 Signaling network components			X	Note 1 on Page 9
3.1.2 Signaling modes	X			
3.1.3 Signaling point modes	X			
3.1.4 Message labelling	X			
3.2 Signaling message handling functions	X			
3.3 Signaling network management functions	X			
3.4 Testing and maintenance functions	X			
3.5 Use of signaling network	X			
4 Message transfer capability	X			
5 Differences from Blue Book	-			See Section 2.2 on page 4
6 Compatibility in the Message Transfer Part	X			
7 Interworking of yellow, red and blue MTP implementation	-			
7.1 Yellow Book to Red Book interworking		X		
7.1.1 Level 2 flow control		X		
7.1.2 Transfer restricted and Transfer controlled procedures		X		
7.1.3 Transfer allowed/Transfer prohibited acknowledgments		X		
7.1.4 Management inhibiting procedure		X		

Table 1

References	C	N	P	Comments
7.2 Red Book to Blue Book interworking	-			
7.2.1 Signaling Point Restart		X		
7.2.2 Q.703 and Q.704 timer values	X			
7.2.3 User flow control	X			
7.2.4 Management inhibit test procedure		X		
7.2.5 SIF length increase		X		
7.2.6 SIF length increase (National networks option)		X		
7.2.7 Processor outage		X		
7.3 Yellow Book to Blue Book interworking		X		
7.4 Blue Book to the present version interworking	X			
7.5 Red Book to the present version interworking	X			
8 Primitives and parameters of the Message Transfer Part	X			

2.2 JT-Q704

Table 2

References	C	N	P	Comments
1 Introduction	-			
1.1 General characteristics of the signaling network functions	X			
1.2 Signaling message handling	X			
1.3 Signaling network management			X	Note 2 on Page 9, Note 3 on Page 9
2 Signaling message handling	X			
3 Signaling network management	-			
3.1 General			X	Note 2 on Page 9
3.2 Status of signaling links	X			
3.3 Procedures used in connection with link status changes	-			



Table 2

References	C	N	P	Comments
3.3.1 Signaling link failed	X			
3.3.2 Signaling link restored	X			
3.3.3 Signaling link deactivated	X			
3.3.4 Signaling link activated	X			
3.3.5 Signaling link blocked			X	Note 6 on Page 9
3.3.6 Signaling link unblocked	X			
3.3.7 Signaling link inhibited	X			
3.3.8 Signaling link uninhibited	X			
3.4 Status of signaling routes3.3.8 Signaling link uninhibited	X			
3.5 Procedures used in connection with route status changes	X			
3.6 Status of signaling points	X			
3.7 Procedures used in connection with point status changes	X			
3.8 Signaling network congestion	X			
4 Signaling traffic management	-			
4.1 General	-			
4.2 Normal routing situation	X			Note 7 on Page 9
4.3 Signaling link unavailability	X			
4.4 Signaling link availability	X			
4.5 Signaling route unavailability	X			
4.6 Signaling route availability	X			
4.7 Signaling route restriction	X			
4.8 Signaling point availability	X			
5 Changeover	-			
5.1 General	X			
5.2 Network configurations for changeover	X			
5.3 Changeover initiation and actions	X			
5.4 Buffer updating procedure	X			
5.5 Retrieval and diversion of traffic	X			

Table 2

References	C	N	P	Comments
5.6 Emergency changeover procedures			X	Note 4 on Page 9
5.7 Procedures in abnormal conditions	X			
6 Changeback	X			
7 Forced rerouting	X			
8 Controlled rerouting initiation and actions	X			
9 MTP restart	X			
10 Management inhibiting	X			
11 Signaling traffic flow control	X			
12 Signaling link management	-			
12.1 General			X	Note 2 on Page 9
12.2 Basic signaling link management procedures	X			
12.3 Signaling link management procedures based on automatic allocation of signaling terminals	X			
12.4 Signaling link management procedures based on automatic allocation of signaling data links	X			
12.5 Automatic allocation of signaling terminals	X			
12.6 Automatic allocation of signaling data links	X			
12.7 Different signaling link management procedures at the two ends of a link set	X			
13 Signaling route management	-			
13.1 General	X			
13.2 Transfer prohibited	X			
13.3 Transfer-allowed	X			
13.4 Transfer-restricted (National option)	X			
13.5 Signaling-route-set-test	X			
13.6 Transfer-controlled (International network)	X			



Table 2

References	C	N	P	Comments
13.7 Transfer-controlled (National option with congestion priorities)	X			
13.8 Transfer-controlled (National option without congestion priorities)	X			
13.9 Signaling-route-set-congestion-test (National Option)	X			
14 Common characteristics of message signal unit formats	-			
14.1 General	X			
14.2 Service information octet	-			
14.2.1 Service indicator (SI)	X			
14.2.2 Sub-service field (SSF)	X			Note 8 on Page 9
14.3 Label	-			
15 Format and codes of signaling network management messages	-			
15.1 General	X			
15.2 Label	X			
15.3 Heading code (H0)	X			
15.4 Changeover message	X			
15.5 Changeback message	X			
15.6 Emergency changeover message	X			
15.7 Transfer-prohibited message	X			
15.8 Transfer-allowed message	X			
15.9 Transfer-restricted message (national option)	X			
15.10 Signaling-route-set-test message	X			
15.11 Management inhibit message	X			
15.12 Traffic restart allowed message	X			
15.13 Signaling-data-link-connection-order message		X		
15.14 Signaling-data-link-connection-acknowledgement message		X		
15.15 Transfer-controlled message	X			

Table 2

References	C	N	P	Comments
15.16 Signaling-route-set-congestion-test message (national option)	X			
15.17 User Part unavailable message	X			
16 Static transition diagrams, abbreviations and timers	-			
16.1 General	-			
16.2 Drafting conventions	-			
16.3 Signaling message handling	-			
16.4 Signaling traffic management	-			
16.5 Signaling link management	-			
16.6 Signaling route management	-			
16.7 Abbreviations used in Figures 23 onwards	-			
16.8 Timers and timer values			X	Note 5 on Page 9

2.3 JT-Q707

Table 3

References	C	N	P	Comments
1 General	-			
2 Testing	X			
3 Fault location	-			
4 Signaling network monitoring	-			
5 Formats and codes of signaling network testing and maintenance messages	X			
6 State transition diagrams	X			

2.4 JT-Q2210

Ericsson SS7 MTP-L3 TTC version R1 is compliant with TTC JT-Q2210 except for the deviations from TTC JT-Q704 (see Section 2.2 on page 4).



3 Notes and Comments

Note 1	Link groups not supported.
Note 2	Automatic allocation or reconfiguration of signaling equipment is not supported.
Note 3	See the notes for the individual signaling network management messages (clause 15).
Note 4	No difference between long- and short-term processor outage. All emergency changeovers are treated as being initiated by a long-term processor outage.
Note 5	The following timers are not implemented: T7, T9, T11, T24.
Note 6	Timer T24 not used. Signaling traffic management commences without interruptions.
Note 7	Priorities are not set on a per linkset basis, instead priorities are set on routes in routesets.
Note 8	The spare bits are sent transparently to/from the User Part and they are always used as priority bits.





Glossary

MSU

Message Signaling Unit

MTP

Message Transfer Part

SIF

Signaling Information Field





Reference List

TTC Standards

- [1] *JT-Q701, Version 2, Nov. 28, 1990*
- [2] *JT-Q704, Version 4, May 30, 2002*
- [3] *JT-Q707, Version 2, Nov. 28, 1990*
- [4] *JT-Q2210, Version 1, Apr. 24, 1996*