

BSSAP-LE

3GPP

STATEMENT OF COMPLIANCE

© Ericsson AB 2004, 2006-2008, 2010, 2012. All rights reserved. No part of this document may be reproduced in any form without the written permission of the copyright owner.

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

Author: XMRALPR
Subj. Responsible:
Approved: XMR (Oleg Fufaev)
File name: 3f95ba6661
Template: 4/1013-FEA 202 705 Uen, Rev B 1998-09-21

Table of Contents

1.	GENERAL	4
1.1	INTRODUCTION	4
1.2	CONCEPT	4
1.3	HISTORY	4
2.	COMPLIANCE LISTS	6
2.1	3GPP TS 49.031 V9.0.0 / V10.0.0	6
2.2	3GPP TS 48.071 V9.3.0 / V10.3.0	11
3.	NOTES AND COMMENTS	14

1. GENERAL

1.1 INTRODUCTION

This document provides a detailed description of the degree, to which BSSAP conforms to the 3GPP recommendation.

3GPP	3rd Generation Partnership Project
BSSAP	Base Station System Application Part

1.2 CONCEPT

The terms that are used are:

C	Module complies with the specified paragraph in the standard.
N	Module does not comply with the specified paragraph in the standard.
P	Module complies partly with the specified paragraph in the standard. Specify in a note what in the module that does comply and what that does not.
-	There is nothing to implement in the referred paragraph (used in column "C").

1.3 HISTORY

Revision	Date	Author	Comment
E	2004-11-12	Eva Arvidsson	New revision R5. Updated to support new versions of the standards 3GPP TS 49.031 v6.3.0 (2004-05) and 3GPP TS 48.071 v6.5.0 (2004-05).

Revision	Date	Author	Comment
F	2006-06-19	Malin Abrahamsson	New revision, R6. Updated to support new versions of the standards 3GPP TS 49.031 v6.4.0 (2004-11), 3GPP TS 48.071 v6.7.0 (2004-11) and of the SCCP API.
G	2007-10-18	Jens Rydholm	Removed version from document title.
H	2008-10-16	Magnus Persson, Malin Abrahamsson	Updated for 3GPP TS 49.031 v6.5.0 and 3GPP TS 48.071 v6.9.0. Updated to support U-TDOA related messages and parameters. Updated the BSSAP API to support BSSMAP-LE for the BSS node to the same extent that it supports BSSMAP-LE for the SMLC node.
J	2008-04-29	Malin Abrahamsson	New revision, R7. Updated to support new versions of the standards 3GPP TS 49.031 v7.6.0 (2008-03), 3GPP TS 48.071 v7.2.0 (2007-06).
K	2010-04-16	Igor Panarin	Updated to support new versions of standards 3GPP TS 49.031 v8.1.0 (2008-12), 3GPP TS 48.071 v8.0.0 (2007-12).
K1	2012-04-12	XMALMIK	Updated BSSAP-LE PERFORM LOCATION REQUEST/RESPONSE
K2	2012-10-05	XMRALPR	Updated to support new version of standards: 3GPP TS 48.071 v 9.3.0 / v10.3.0 3GPP TS 49.031 v 9.0.0 / v10.0.0. Chapter 2.2 was updated with Concurrent Positioning Procedure Flag.

2. COMPLIANCE LISTS

2.1 3GPP TS 49.031 V9.0.0/V10.0.0

References	C	N	P	Comments
1. Scope	-			
2. References	-			
3. Definitions, abbreviations and symbols	-			
4. Definition of BSSAP-LE	-			
4.1 DTAP-LE Messages		X		
4.2 BSSMAP-LE Messages			X	<i>Note 1</i>
5 Procedures applicable to use of BSSAP-LE	-			
5.1 Location Request	-			
5.1.1 Successful Operation	-			
5.1.2 Unsuccessful Operation	-			
5.1.3 Abnormal Conditions	-			
5.1.4 Overload	-			
5.2 Connection Oriented Information Transfer	-			
5.2.1 Successful Operation	-			
5.2.2 Abnormal Condition	-			
5.2.3 Segmentation	X			
5.3 Connectionless Information Transfer	-			
5.3.1 Successful Operation	-			
5.3.2 Unsuccessful Operation	-			
5.3.3 Abnormal Condition	-			
5.3.4 Segmentation	X			
5.4 LMU Connection Establishment	-			

References	C	N	P	Comments
5.4.1 LMU Connection Establishment initiated by the SMLC	-			
5.4.1.1 Successful Operation	-			
5.4.1.2 Unsuccessful Operation	-			
5.4.1.3 Abnormal Conditions	-			
5.4.2 LMU Connection Establishment initiated by the MSC	-			
5.4.2.1 Successful Operation	-			
5.4.2.2 Unsuccessful Operation	-			
5.4.2.3 Abnormal Operations	-			
5.5 Void	-			
5.6 DTAP-LE Information Transfer	-			
5.6.1 DTAP-LE Information Transfer Initiated by the SMLC	-			
5.6.2 DTAP-LE Information Transfer Initiated by the BSC	-			
5.7 Reset	-			
5.7.1 Normal Operation	-			
5.7.2 Abnormal Conditions	-			
5.8 Perform Location Information	-			
6 Usage of BSSAP-LE and BSSAP on the Lb Interface	-			
6.1 Applicable Message Sets			X	Note 2
6.2 MTP Functions	-			
6.3 SCCP Functions	-			
6.3.1 General	-			
6.3.2 Modifications for Connectionless SCCP	-			
6.3.3 Modifications for Connection Oriented SCCP	-			

References	C	N	P	Comments
6.3.4 Contents of the SCCP Data Field	X			
6.3.5 Abnormal Conditions	X			
7 Void	-			
8 Use of BSSAP-LE on the Lp Interface	-			
8.1 Applicable Message Sets	X			
8.2 MTP Functions	-			
8.3 SCCP Functions	-			
8.3.1 General	-			
8.3.2 Allowed Exceptions to ITU-T Recommendations Q.711-714	-			
8.3.3 Allowed Exceptions to ANSI T1.112	-			
8.3.4 Usage of Connectionless SCCP	-			
8.3.5 Usage of Connection Oriented SCCP	-			
8.3.6 Contents of the SCCP Data Field	X			
9 Message Functional Definitions and Contents	-			
9.1 BSSMAP-LE PERFORM LOCATION REQUEST message	X			
9.1.1 Location Type	X			
9.1.2 Cell Identifier	X			
9.1.3 Classmark Information Type 3	X			
9.1.4 LCS Client Type	X			
9.1.5 Chosen Channel	X			
9.1.6 LCS Priority	X			
9.1.6a LCS QoS	X			
9.1.7 Requested GPS Assistance Data	X			
9.1.8 BSSLAP APDU	X			

References	C	N	P	Comments
9.1.9 LCS Capability	X			
9.1.10 Packet Measurement Report	X			
9.1.11 Measured Cell Identity List	X			
9.1.12 IMSI	X			
9.1.13 IMEI	X			
9.1.14 GANSS Location Type	X			
9.1.15 Requested GANSS Assistance Data	X			
9.2 BSSMAP-LE PERFORM LOCATION RESPONSE message	X			
9.2.1 Location Estimate	X			
9.2.2 Positioning Data	X			
9.2.3 Deciphering Keys	X			
9.2.4 LCS Cause	X			
9.2.5 Velocity Data	X			
9.2.6 GANSS Positioning Data	X			
9.3 BSSMAP-LE PERFORM LOCATION ABORT message	X			
9.3.1 LCS Cause	X			
9.4 Void	-			
9.5 Void	-			
9.6 Void	-			
9.7 Void	-			
9.8 BSSMAP-LE CONNECTION ORIENTED INFORMATION message	X			
9.8.1 BSSLAP APDU	X			
9.8.2 Segmentation	X			

References	C	N	P	Comments
9.9 BSSMAP-LE CONNECTIONLESS INFORMATION message	X			
9.9.1 Source Identity	X			
9.9.2 Destination Identity	X			
9.9.3 APDU	X			
9.9.4 Segmentation	X			
9.9.5 Return Error Request	X			
9.9.6 Return Error Cause	X			
9.10 BSSMAP-LE RESET message	X			
9.11 BSSMAP-LE RESET ACKNOWLEDGE message	X			
9.12 BSSMAP-LE PERFORM LOCATION INFORMATION message		X		
9.12.1 Cell Identifier		X		
9.12.2 BSSLAP APDU		X		
10 Message format and information element coding	X			
10.1 Message type			X	<i>Note 1</i>
10.2 Information Element Identifiers	X			
10.3 APDU	X			
10.4 Cause	X			
10.5 Cell Identifier	X			
10.6 Chosen Channel	X			
10.7 Classmark Information Type 3	X			
10.8 Deciphering Keys	X			
10.9 Geographic Location	X			
10.10 Requested GPS Assistance Data	X			
10.11 IMSI	X			

References	C	N	P	Comments
10.12 Void	-			
10.13 LCS Cause	X			
10.14 LCS Client Type	X			
10.15 LCS Priority	X			
10.16 LCS QoS	X			
10.17 Void	-			
10.18 Location Type	X			
10.19 Network Element Identity	X			<i>Note 3</i>
10.20 Positioning Data	X			
10.21 Return Error Request	X			
10.22 Return Error Cause	X			
10.23 Void	-			
10.24 Segmentation	X			
10.25 Void	-			
10.26 LCS Capability	X			
10.27 Packet Measurement Report	X			
10.28 Cell Identity List	X			
10.29 IMEI	X			

2.2 3GPP TS 48.071 V9.3.0 / V10.3.0

References	C	N	P	Comments
1. Scope	-			
2. References	-			
3. Definitions and abbreviations	-			
4. Messages functional definitions and contents	-			

References	C	N	P	Comments
4.1 General	-			
4.2 Messages	X			
4.2.1 TA Request	X			
4.2.2 TA Response	X			
4.2.3 Void	-			
4.2.4 Void	-			
4.2.5 Reject	X			
4.2.6 Reset	X			
4.2.7 Abort	X			
4.2.8 TA Layer 3	X			
4.2.9 MS Position Command	X			
4.2.10 MS Position Response	X			
4.2.11 U-TDOA request	X			
4.2.12 U-TDOA Response	X			
5 Information element encodings	X			
5.1 Message Type IE	X			
5.2 Timing Advance IE	X			
5.3 Void	-			
5.4 Cell Identity IE	X			
5.5 Void	-			
5.6 Void	-			
5.7 Void	-			
5.8 Channel Description IE	X			
5.9 Void	-			
5.10 Void	-			

References	C	N	P	Comments
5.11 Void	-			
5.12 Measurement Report IE	X			
5.13 Void	-			
5.14 Cause IE	X			
5.15 RRLP Flag IE	X			
5.16 RRLP IE	X			
5.17 Cell Identity List IE	X			
5.18 Enhanced Measurement Report IE	X			
5.19 Location Area Code IE	X			
5.20 Frequency List IE	X			
5.21 MS Power IE	X			
5.22 Delta Timer IE	X			
5.23 Serving Cell Identifier IE	X			
5.24 Encryption Key IE	X			
5.25 Cipher Mode Setting IE	X			
5.26 Channel Mode IE	X			
5.27 MultiRate Configuration IE	X			
5.28 Polling Repetition IE	X			
5.29 Packet Channel Description	X			
5.30 TLLI IE	X			
5.31 TFI IE	X			
5.32 Starting Time IE	X			
5.33 Long Encryption Key IE	X			
5.34 Concurrent Positioning Procedure Flag	X			

3. NOTES AND COMMENTS

- Note 1 The BSSAP-LE supports the BSSMAP-LE Positioning messages, as being an SMLC or a BSS, with the exception of the Perform Location Information message which is not supported at all.
- The BSSMAP-LE Information messages and the BSSMAP-LE General messages are supported.
- Note 2 DTAP-LE messages are not supported.
- The BSSAP-LE supports the BSSMAP-LE Positioning messages, as being an SMLC or a BSS, with the exception of the Perform Location Information message which is not supported at all.
- The BSSMAP-LE Information messages and the BSSMAP-LE General messages are supported.
- No messages supported for a LMU.
- Note 3 LMU ID not supported.