Nokia Siemens Networks GSM/EDGE BSS, rel. RG10(BSS), operating documentation, issue 03

Reference

Software Compatibility of MetroSite EDGE BTS

DN04196625

Issue 6-2
Approval Date 2009-10-14

The information in this document is subject to change without notice and describes only the product defined in the introduction of this documentation. This documentation is intended for the use of Nokia Siemens Networks customers only for the purposes of the agreement under which the document is submitted, and no part of it may be used, reproduced, modified or transmitted in any form or means without the prior written permission of Nokia Siemens Networks. The documentation has been prepared to be used by professional and properly trained personnel, and the customer assumes full responsibility when using it. Nokia Siemens Networks welcomes customer comments as part of the process of continuous development and improvement of the documentation.

The information or statements given in this documentation concerning the suitability, capacity, or performance of the mentioned hardware or software products are given "as is" and all liability arising in connection with such hardware or software products shall be defined conclusively and finally in a separate agreement between Nokia Siemens Networks and the customer. However, Nokia Siemens Networks has made all reasonable efforts to ensure that the instructions contained in the document are adequate and free of material errors and omissions. Nokia Siemens Networks will, if deemed necessary by Nokia Siemens Networks, explain issues which may not be covered by the document.

Nokia Siemens Networks will correct errors in this documentation as soon as possible. IN NO EVENT WILL Nokia Siemens Networks BE LIABLE FOR ERRORS IN THIS DOCUMENTA-TION OR FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO SPECIAL, DIRECT, INDI-RECT, INCIDENTAL OR CONSEQUENTIAL OR ANY LOSSES, SUCH AS BUT NOT LIMITED TO LOSS OF PROFIT, REVENUE, BUSINESS INTERRUPTION, BUSINESS OPPORTUNITY OR DATA,THAT MAY ARISE FROM THE USE OF THIS DOCUMENT OR THE INFORMATION IN IT.

This documentation and the product it describes are considered protected by copyrights and other intellectual property rights according to the applicable laws.

The wave logo is a trademark of Nokia Siemens Networks Oy. Nokia is a registered trademark of Nokia Corporation. Siemens is a registered trademark of Siemens AG.

Other product names mentioned in this document may be trademarks of their respective owners, and they are mentioned for identification purposes only.

⚠ Important Notice on Product Safety

Elevated voltages are inevitably present at specific points in this electrical equipment. Some of the parts may also have elevated operating temperatures.

Non-observance of these conditions and the safety instructions can result in personal injury or in property damage.

Therefore, only trained and qualified personnel may install and maintain the system.

The system complies with the standard EN 60950 / IEC 60950. All equipment connected has to comply with the applicable safety standards.

The same text in German:

Wichtiger Hinweis zur Produktsicherheit

In elektrischen Anlagen stehen zwangsläufig bestimmte Teile der Geräte unter Span-nung. Einige Teile können auch eine hohe Betriebstemperatur aufweisen.

Eine Nichtbeachtung dieser Situation und der Warnungshinweise kann zu Körperverlet-zungen und Sachschäden führen.

Deshalb wird vorausgesetzt, dass nur geschultes und qualifiziertes Personal die Anlagen installiert und wartet.

Das System entspricht den Anforderungen der EN 60950 / IEC 60950. Angeschlossene Geräte müssen die zutreffenden Sicherheitsbestimmungen erfüllen.

Table of Contents

This document has 12 pages.

List of Tables

Id:0900d8058062da6f

1 Summary of changes

This document provides information on MetroSite EDGE Base Station Software (BTS SW) compatibility. The document covers the following elements:

- Compatibility between BTS SW versions and unit hardware versions.
- Compatibility towards Base Station Controller Software (BSC SW), SiteWizard Software, NetAct Software (OSS SW), Location Measurement Unit Software (LMU and LMUB SW), and Integrated Transmission Node Software (ITN SW).
- Compatibility between new operating and application software of BTS SW and other network elements.

Summary of documentation changes between Issue 6-1 and 6-2

The table *Compatibility between HW and SW of Metrosite EDGE BTS* has been updated.

Summary of documentation changes between Issue 6-0 and 6-1

This version contains the following updates:

- The OSS 5.2 compatibility information has been removed.
- A minor note has been added to the table in *Compatibility between new operating and application SW of BTS SW CXM7 and other network elements*.

Summary of documentation changes between CXM6 and CXM7

This version contains the following additions and updates:

- New units have been added to the table in *Compatibility between HW and SW*. See *Technical Notes* and *Change Notices* below for more details.
- Information about the following supported SW versions have been added to the tables in *Compatibility between BTS, BSC, NetAct, SiteWizard, LMU and ITN SW*.
  - CXM6 and CXM7
  - BSS14
  - OSS4.2 CD 1
  - SiteWizard 7
- BSS14-level operating and application SW features have been updated to *Compatibility between new operating and application SW of BTS SW CXM7 and other network elements*. The chapter also contains information about features that are included from previous releases.

Technical Notes

This document contains the relevant information from the following Technical Notes:

Technical Note ID	Description
TN_2GBTSm_SW_2006_48	The MetroSite EDGE BTS SW CXM5 and CXM5 CD1.0.
TN_2GBTSm_SW_2006_50	The MetroSite EDGE BTS SW CXM5 CD1.0 and CXM5 CD2.0.
TN_2GBTSm_SW_2007_51	The release of MetroSite EDGE BTS SW CXM5 and SiteWizard 5.
TN_2GBTSm_GEN_2007_52	The compatibility of FC E1/T1 unit in EDGE applications.

Technical Note ID	Description
TN_2GBTSm_GEN_2007_54	Availability of SW Support for Transmission SW Releases ITN C1.0 and C1.2.
TN_2GBTSm_GEN_2007_58	The main new features, compatibility and availability of the ITN C3 CD1 release (both SW and HW) and the SiteWizard 5 CD2.0 release containing the element managers
8_2007	List of active TN for MetroSite BTS

Summary of documentation changes between CXM5 and CXM6

This version contains the following additions and updates:

- Some general editing of the wording of the document has been done.
- New units have been added to the table in *Compatibility between HW and SW*. See *Technical Notes* and *Change Notices* below for more details.
- Information about the following supported SW versions have been added to the tables in *Compatibility between BTS, BSC, NetAct, SiteWizard, LMU and ITN SW*.
    - CXM5 and CXM6
    - BSS13
    - OSS4.2
    - SiteWizard 6
- BSS13-level operating and application SW features have been updated to *Compatibility between new operating and application SW of BTS SW CXM5 and other network elements*. The chapter also contains information about features that are included from previous releases.

Summary of documentation changes between CXM5 CD 1, CXM5 CD2, CXM5 CD3 and CXM5

No changes were made in this document between CXM5 and CXM5 CD 1, CXM5 CD2, or CXM5 CD3.

2 Compatibility between HW and SW

This section provides information on the compatibility between MetroSite EDGE GSM 800/900/1800/1900 Base Station Software (BTS SW) release and unit hardware (HW).

The table below shows the compatibility between HW and SW in MetroSite EDGE BTS.

Unit	Unit code	Unit version	CXM6	CXM7
CTGA (EDGE 900 10W)	469690A	.101, .202, .203, .204, .205	Y	Y
CTGH (EDGE 900 10W filter H)	469874A	.101, .102, .103, .104	Y	Y
CTGJ (EDGE 900 10W filter J)	469875A	.101, .102, .103, .104	Y	Y
CTDA (EDGE 1800 10W)	469691A	.101, .102, .103	Y	Y
CVSB (AC 85-300V)	470030A	.101	Y[3]	Y[3]
CVSD (DC 24-48V)	470031A	.101	Y[2]	Y[2]
CVSG 11 (AC 150-300V)	469773A	.101	Y[3]	Y[3]
HVCU 11 Cover	468582A	.101, .102, .103	Y	Y
HVMC 11 Cabinet	468383A	.101, .102, .103	Y	Y
HVMF 11 Fan unit	468263A	.101, .102, .103	Y	Y
HVSA 11 (AC 230V)	468260A	.101, .102, .104	Y[3]	Y[3]
HVSA 12 (AC 240V)	468260A	.205	Y[3]	Y[3]
HVSB 11 (AC 110V)	468261A	.101, .103	Y[3]	Y[3]
HVSB 12 (AC 110V)	468261A	.204	Y[3]	Y[3]
HVSC 11 (DC 24V)	469042A	.101	Y[2]	Y[2]

Table 1   Compatibility between HW and SW in MetroSite EDGE BTS

Unit	Unit code	Unit version	CXM6	CXM7
HVSD 11 (DC48V)	468262A	.101, .102, .103	Y[2]	Y[2]
HVSD 12 (DC48V)	468262A	.203	Y[2]	Y[2]
HVTG 11 (GSM 900 TRX)	468186A	.101	Y	Y
HVTH 11 (GSM 900 TRX filter H)	468191A	.101	Y	Y
HVTJ 11 (GSM 900 TRX filter J)	468190A	.101	Y	Y
HVTD 11 (GSM 1800 TRX)	468187A	.101	Y	Y
HVTP 11 (GSM 1900 TRX)	468188A	.101	Y	Y
LMU GSM 800/1900/1800	469592A	.101	Y	Y
LMU GSM 900/1800/1900	468765A	.102	Y	Y
LMUB	470172A	.102	Y	Y
VCUA 11	466804A	.101	Y	Y
VIFA 11	467208	.101, .102 .103, .104	Y	Y
VIFA 12	467208A	.204[1], .205, .206	Y	Y
VMCA 11	466797A	.102, .103, .104	Y	Y
VMFA 11	467207A	.101, .102	Y	Y
VSAA 11 (AC 230V)	466798A	.101	Y	Y
VSAB 11 (AC 110V)	466974A	.101	Y	Y
VSDA 11 (DC 36V/48V/60V)	466799A	.101	Y	Y
VTGA 11 (GSM 900 TRX)	467202A	.101	Y	Y

Table 1   Compatibility between HW and SW in MetroSite EDGE BTS (Cont.)

Id:0900d8058062da64

Unit	Unit code	Unit version	CXM6	CXM7
VTGH 11 (GSM 900 TRX filter H)	467620A	.101	Y	Y
VTGJ 11 (GSM 900 TRX filter J)	467621A	.101	Y	Y
VTDA 11 (GSM 1800 TRX)	467203A	.102	Y	Y
VTPA 11 (GSM 1900 TRX)	467204A	.101, .102	Y	Y
VXEA 11 (FC E1/T1)	467201A	.101, .102, .103, .104	Y	Y
VXOC (FC STM-1)	00002795	03	Y	Y
VXRB 11 (FXC RRI)	467610A	.101, .102, .103, .104, .105, .106	Y	Y
VXTA 11 (FXC E1 75 Ω)	467612A	.101, .102, .103, .104, .105, .106	Y	Y
VXTB 11 (FXC E1/T1 120/100 Ω)	467611A	.101, .102, .103, .104, .105, .106	Y	Y
WTFA 5W (EDGE 800)	468654A	.101, .102, .103, .104	Y	Y
WTPA 5W (EDGE 1900)	468231A	.101, .102, 103	Y	Y
Y = Compatible				
N = Not compatible				
[1] EDGE compatibility from VIFA version .204. [2] CVSD replaces HVSC 11 (DC 24V) and HVSD 12 (DC48V). It can also be used in place of HVSD 11 (DC 48V). [3] CVSB replaces CVSG (AC 230V) and HVSB 12 (AC 110V). It can also be used in place of HVSA 11, HVSB 11 and HVSA 12.				

Table 1   Compatibility between HW and SW in MetroSite EDGE BTS (Cont.)

3 Compatibility between BTS, BSC, NetAct, SiteWizard, LMU and ITN SW

This section provides information on the compatibility between the following software:

- MetroSite EDGE Base Station Software (BTS SW)
- SiteWizard Software (SiteWizard SW)
- Base Station Controller Software (BSC SW)
- NetAct Software (NetAct SW)
- Location Measurement Unit Software (LMU SW)
- Location Measurement Unit (LMUB) Software (LMUB SW)
- Integrated Transmission Node Software (ITN SW)

The tables below show the level of compatibility between the software versions. With ITN SW, only tested compatibility is shown.

BTS SW[1]	SiteWizard SW	BSC SW[1]		
		S12	S13	S14
CXM6	6	Y	Y	Y
CXM7	7	N	Y	Y
Y = Compatible				
N = Not compatible				
[1] Feature support is limited if a CXM release is not used with its corresponding S release.				

Table 2   Compatibility between BTS, SiteWizard and BSC SW

BTS SW	SiteWizard SW	NetAct SW		
		OSS 4.1	OSS 4.2 CD1	OSS 5.1 CD2.0
CXM6	6	N	Y	Y
CXM7	7	N	Y	Y
Y = Compatible				
N = Not compatible				

Table 3   Compatibility between BTS, SiteWizard and NetAct SW

BTS SW	SiteWizard SW	LMU SW		LMUB SW			
		SW4.3	SW4.4	SW1.0	SW1.0 CD1	SW1.0 CD2	SW1.0 CD3
CXM6	6	N	Y	Y	Y	Y	Y
CXM7	7	N	Y	Y	Y	Y	Y

Table 4   Compatibility between BTS, LMU and LMUB SW

Id:0900d8058062da68

BTS SW	SiteWizard SW	LMU SW		LMUB SW			
		SW4.3	SW4.4	SW1.0	SW1.0 CD1	SW1.0 CD2	SW1.0 CD3
Y = Compatible							
N = Not compatible							

Table 4   Compatibility between BTS, LMU and LMUB SW (Cont.)

BTS SW[1]	ITN SW[1]						
	C1.0	C2.1-2	C2.2	C3	C3 CD1	C3 CD2	C3 CD3.0
CXM6	Y	Y	Y	Y	Y	Y	Y
CXM7	Y	Y	Y	Y	Y	Y	Y
Y = Compatible							
N = Not compatible							
[1] Restrictions in ITN and BTS SW compatibility will be communicated by using Technical Notes.							

Table 5   Tested compatibility between BTS SW and ITN SW

4 Compatibility between new operating and application SW of BTS SW CXM7 and other network elements

The table below shows the compatibility between the new operating and application SW of BTS SW CXM7 and the SW of other network elements.

New BSS14 operating and application SW in BTS	BSC SW	NetAct SW	MSC	MGW
A5/3 ciphering	S14	OSS 5.1 CD2.0	M14.1	-
WB-AMR with MGW			M14	U4.1[1]
AMR TFO with MGW			M14	U4.1
PS and SDCCH on DFCA TRX			-	-
WB-AMR with TCSM3i			M14	-
[1] Requires CD6T3 or later.				

Table 6   Compatibility between new operating and application SW of BTS SW CXM7 and other network elements