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Nokia UltraSite EDGE BTS, Rel. CX5, Product Documentation, v.1

About Nokia UltraSite EDGE BTS, Rel. CX5, Product Documentation, v.1

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Contents

Contents 3

1 Changes in documentation between Release CX4.1 Update 2 and Release CX5 5
1.1 Documentation **5**
1.2 Delivery content **6**
1.3 Hardware **6**
1.4 Software **7**
1.5 Parameters **7**
1.6 Technical specifications **7**

2 Documentation Delivery 9

3 Operator-process based information model in UltraSite EDGE BTS Release CX5 Documentation 11
3.1 About this publication **12**
3.2 Descriptions **13**
3.3 Plan **13**
3.4 Install and upgrade **13**
3.5 Commission **14**
3.6 Test and activate **14**
3.7 Optimise and expand **14**
3.8 Monitor **15**
3.9 Trouble management **15**
3.10 Prevent failures **15**
3.11 Administer **15**
3.12 Reference **16**
3.13 Legal and safety statements **16**

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1 Changes in documentation between Release CX4.1 Update 2 and Release CX5

1.1 Documentation

The pdf documentation structure was updated to include 23 documents. In addition, the documentation set includes two quick guides.

The following pdf documents are available:

- About UltraSite EDGE BTS Release CX5 Documentation
- Glossary for UltraSite EDGE BTS
- Legal and Safety Statements for UltraSite EDGE BTS
- Materials usage information of Networks Electronic Information Products imported or sold in the People's Republic of China
- UltraSite EDGE BTS Product Description
- UltraSite EDGE BTS Unit Descriptions
- UltraSite EDGE BTS Technical Data
- UltraSite EDGE BTS Software Descriptions
- Software Compatibility of UltraSite EDGE BTS
- Feature Descriptions for Nokia UltraSite EDGE Base Station
- UltraSite EDGE BTS Site Requirements
- Installing and Cabling UltraSite EDGE BTS Cabinet
- Installing and Cabling UltraSite EDGE BTS Units
- Configuration and Combining Options for UltraSite EDGE BTS

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- Installing and Upgrading UltraSite EDGE BTS Software
- Commissioning UltraSite EDGE BTS
- Testing UltraSite EDGE BTS
- Expanding and Upgrading UltraSite EDGE BTS
- Trouble Management of UltraSite EDGE BTS
- Removing UltraSite EDGE BTS Cabinet
- Removing and Replacing UltraSite EDGE BTS Units
- Replacing UltraSite EDGE BTS Cabinet Cables
- Maintaining UltraSite EDGE BTS

The following quick guides are available:

- UltraSite EDGE BTS IDCA Installation Quick Reference Guide
- UltraSite EDGE BTS ODCA Installation Quick Reference Guide

For more detailed information on the changes in this release, see other sections in *Changes between Release CX4.1 Update 2 and Release CX5*.

1.2 Delivery content

This section provides the changes to the delivery content for this release.

- Added the following transportation packages:
  - Mini Outdoor cabinet transportation package
  - Contents of the pole mounting kit for Mini outdoor delivery (optional)
  - Contents of the floor mounting kit for Mini outdoor delivery (optional)
  - Contents of the security lock for Mini outdoor delivery (optional)

1.3 Hardware

This section provides the hardware changes for this release.

- Added Mini Outdoor cabinet (ODCM) information

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1.4 Software

This section provides the software changes for this release.

- Added CX5 software updates.
- Added the following technical descriptions:
  - List of instructions for BTS configuration using MMI software
- Added the following procedures:
  - Using Site Wizard in Mini Outdoor commissioning

1.5 Parameters

This section provides the parameter changes for this release.

- Updated RF properties for 800 MHz, 900 MHz, and 1900 MHz BTS
- Added RF properties for Mini Outdoor BTS

For more information on updates to this release, see the other sections in *Changes between Release CX4.1 Update 2 and Release CX5*.

1.6 Technical specifications

This section provides the changes to the technical specifications for this release.

- Added technical specifications for the new Mini Outdoor cabinet (ODCM).

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2 Documentation Delivery

The following documentation formats are available on Nokia UltraSite EDGE BTS, Rel. CX5, Product Documentation, v.1:

- Product Documentation (downloadable in NOLS or delivered as CD-ROM)
- Release documentation (PDFs downloadable in NOLS)
- Online help (embedded in software)

NOLS Documentation Centre is the primary delivery option for UltraSite EDGE BTS product documentation. The UltraSite EDGE BTS Release CX5 Documentation set is available at the following path:

Documentation -> Radio Network -> Radio Network Solutions -> GSM/EDGE BSS -> Nokia UltraSite EDGE Base Station

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3 Operator-process based information model in UltraSite EDGE BTS Release CX5 Documentation

This section describes how operator-process based information model is used in UltraSite EDGE BTS Release CX5 Documentation.

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Figure 1. Operator-process based information model NED view

3.1 About this publication

The content in *About this publication* category has three purposes:

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- To describe the document set currently at hand and to explain the conventions used in it
- To describe the changes between the previous release and the current release as well as changes in documentation
- As user orientation to enable you to find the topics you need, to use the document set quickly and efficiently and to determine the scope of the document set

3.2 Descriptions

The *Descriptions* category contains descriptions of the base stations' hardware architecture from plug-in units to configurations, and software architecture from basic functionalities to individual SW products.

Descriptions have the following characteristics:

- General information and introductions that provide overviews and detailed technical descriptions
- Background information that is essential for understanding the functioning of the system or the product

3.3 Plan

The *Plan* category contains information for planning a BTS installation, internal configurations, and upgrade to include EDGE capability. The Plan category includes the following task:

- Plan BTS installation

3.4 Install and upgrade

The *Install and upgrade* category covers the installation, upgrade, and removal of physical equipment (hardware). The Install and upgrade category includes the following tasks:

- Install hardware - Perform all physical installations of equipment
- Upgrade hardware - Replace old equipment with new equipment
- Remove hardware - Uninstall equipment

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In addition to hardware installation and removal, the category includes information on installing and upgrading UltraSite EDGE BTS software and includes the following tasks:

- Install software - Perform all software installations
- Upgrade software - Replace old software builds or releases with newer ones
- Uninstall software - Remove software

3.5 Commission

Commissioning takes place when software or hardware is activated for the first time or when a site is moved to a new location before it is integrated.

The *Commission* category includes the following tasks:

- Install the required hardware on the equipment for commissioning.
- Install the required software on the equipment.
- Commission the BTS.

3.6 Test and activate

The two main test types are:

- BTS commissioning tests -- ensure that the hardware is functioning properly at the time the BTS is commissioned and generate a report of test results and configuration information used for site acceptance.
- BTS system tests -- verify the quality and maximum number of calls in a cell, verify the condition of the hardware, and identify appropriate maintenance tasks.

3.7 Optimise and expand

The *Optimise and expand* category contains information on expanding UltraSite EDGE BTS and expanding UltraSite EDGE BTS to include EDGE capability. The category includes the following tasks:

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- Expanding common TRX Configurations
- Technical description of transmission capacity expansion
- Expanding to include EDGE capability

3.8 Monitor

The *Monitor* category contains information on the following tasks:

- Monitoring BTS transmission
- Monitoring alarms

3.9 Trouble management

The *Trouble management* category contains information on the following subjects:

- Trouble management of alarms
- Replacing units
- Replacing cabinet cables

3.10 Prevent failures

The *Prevent failures* category contains information on routine maintenance checks on the BTS cabinet and transmission maintenance.

3.11 Administer

The *Administer* category contains information on administering UltraSite BTS Hub.

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3.12 Reference

The *Reference* category contains detailed technical information about the base station HW and SW. The information is relevant in many contexts and therefore often linked with other parts of the documentation. Memorising all reference information is not possible, but it is possible to refer to them again and again.

3.13 Legal and safety statements

The *Legal and safety statements* category contains the following information:

- Software licence terms - Software licence agreement(s) are provided when the product contains open-source software, such as Microsoft Windows, HP, or Linux.
- Compliance statements - Type approval statements are provided to notify the customer of local and international standards and regulatory compliance of a product/solution/system and its components. Statutory statements are required by law to inform the customer about statements, such as CE and FCC.
- Warnings and cautions - A compilation of all the warnings and cautions that are embedded in the product documentation.
- Environmental information - includes statements and explanations on the environmental effects of the products

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