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Nokia UltraSite EDGE Base Station

BTS SW release CX4.0-5

**Technical Note
No. 52**

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BTS SW release CX4.0-5

Validity:

Product	GSM 800	GSM 900	GSM 1800	GSM 1900
Nokia UltraSite EDGE	X	X	X	X
Nokia ConnectSite 100				

Keywords: GSM, EDGE, BTS, SW, CX4.0-4, CX4.0-5, UltraSite

Summary: This Technical Note informs about the release of UltraSite EDGE BTS SW CX4.0-5.

Description: In Technical Note 51 Nokia informed about the problems seen by customers during the rollout of BTS SW CX4.0-4. To correct these problems Nokia has decided to release BTS SW CX4.0-5.

The following problems have been identified in CX4.0-4:

<u>TRXs carrying no traffic</u>

- The problem symptoms:
  - o Incoming handovers fail to the BTS
  - o 7738 'BTS WITH NO TRANSACTIONS alarm at BSC after a defined time at BSC
  - o 7743 MEAN HOLDING TIME BELOW DEFINED THRESHOLD and/or 7745 CHANNEL FAILURE RATE ABOVE DEFINED THRESHOLD alarm for the affected TRX
  - o BCF lock/unlock clears the problem, but the problem may come back during normal operation
- The identified root cause:
  - o The root cause for the problem has been identified to be in the implementation of 'Runtime Diagnostics and Recovery for 7606 TRX FAULTY alarms in UltraSite', which was implemented in CX4.0-4
  - o The 7606 TRX FAULTY alarms that are checked by the diagnostics are not sent to the BSC. The alarm descriptions for the affected 7606 alarms can be found in the CX4.0-4 Generic Failure Report for the Runtime Diagnostics (ref 13225ES08P)
  - o The problem occurs with non-hopping and RF-hopping

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After BTS SW CX4.0-4 activation, TRXs stay in blocked state:

- The problem symptoms:
    - After the CX4.0-4 SW activation, some TRX units do not come into WO–state.
    - A typical alarm seen is 7606 TRX FAULTY ''Interface problems between O&M and DSP software'.
    - The alarm may be seen when BB-hopping and Antenna Hopping is in use.
    - In non-hopping and RF-hopping, the alarm is not sent to BSC, because of the problem in the Runtime Diagnostics causing the TRX carrying no traffic.

- The problem root causes:
    - Problem occurs with Runtime Diagnostics write operation to BB2x board flash memory during the downloading of EQDSP SW.

Correction to the problems:

- Both problems have been identified to be in the Runtime Diagnostics functionality introduced in BTS SW CX4.0-4.
- The Runtime Diagnostics and Recovery functionality has been removed from CX4.0-5.

BTS SW Release CX4.0-5 schedule

The plan is to release CX4.0-5 in NOLS on 23rd of May 2005.

Instructions: None

Note: None

Reference: None

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Technical Note Revision History

DATE	VERSION	EDITOR	SUMMARY OF CHANGES
May 6th 2005	1.0.0	Markku Jokela	Approved version

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List of Active Technical Notes for NOKIA UltraSite EDGE Base Station:

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27	EDAP modification on runtime
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32	An Update on BTS/ Transmission SW Releases
34	BB2F, new Base Band Unit
35	An Update on BTS/ Transmission SW Releases
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44	An Update on SiteWizard and Transmission SW Releases
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47	Update on BTS SW releases
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