

COMPATIBILITY TESTS

BSC COMPATIBILITY TEST SUMMARY S10.5 RELEASE

ANSI

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DOCUMENT ADMINISTRATION**APPROVAL**

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INTERNAL HISTORY

14.03.1997	1.0-0	Tero Rantala	The first version
24.06.1998	2.0-0	Jyrki Kortessalmi	S6->S7
6.3.1999	3.0-0	Erik Hiltunen	S7->S8
11.2.2000	4.0-0	Erik Hiltunen	S8->S9
2.1.2002	5.0-0	Tiina Viitala	S9->S10
20.2.2002	5.1-0	Tiina Viitala	Updates for S10 E3.2 review
2.9.2002	6.0-0	Markku Tuomisto	S10->S10.5

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1. COMPATIBILITY TEST SUMMARY

The test result 2.9.2002 distributed according to the table below (ANSI cases):

Passed	91%	112/123
Failed	0%	0/123
Not Tested	0%	0/123
Not Applicable	9%	11/123

Generally tests were run successfully. One fault report (PRONTO) was raised.

Test place: Access Networks Laboratory, IMN Site Tampere

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Test days: 3.6. – 2.9.2002

1.1 Software configurations

Used environment during S10.5 Compatibility Testing:

MSC/HLR	M10
SGSN	SG2
NMS/OSS	T12,OSS3.1
BTS	CX2.0, CX3, CX3L-2, PU1E, DF5.1

1.1.1 Compatibilities verified by other testphases

Some of the compatibilities were verified during S10.5 System testing. More information can be found from test plans and reports of the test phase.

S10.5 System Testing:

MSC / HLR	M11
NMS/OSS	T12
BTS	B13.1, DF6.0, I2.0, CX3
SGSN	SG2

S10.5 System Testing Plan & Report: S10.5 Pauliina

Note! LMU Rel 1.0 was tested in ETSI environment. From LMU management point of view (through Q1) ANSI environment don't make any difference.

2. TEST LOG

2.1 Settlements of the status's

Each of the test cases run will get a status the choices being.

1) Passed, meaning that the test case have passed the requirements defined for the test case

2) NOK, meaning that test case has not passed all requirements defined for the test case.

3) NA, (Not Applicable) case has found not applicable in Compatibility testing for reasons like: Functionality not supported in co-operating softwares, example in previous BTS SW's. Functionality verified in other test phase ex. System testing. Case is not relevant for S10.5.

4) NOT, Not tested

2.2 BTS NE

CTS1051008401	BSS10084 Quality of Service Measurements	Passed
STS1009B0004	Priority Based Scheduling in BSC (GPRS QoS Phase 1)	Passed

2.2.1 Metro Site CX2.0

GPRS calls

CT000GP00010	Handover, inter BTS, intra PCU	Passed
CT000GP00011	Handover, inter BTS, inter PCU	Passed
CT000GP00001	Attach and PDP context activation	Passed
CT000GP00002	CS and PS calls	Passed
CT000GP00003	PS call, additional TSL	Passed

Mobile calls

CT000BT00050	CT:Dynamic SDCCH Allocation	Passed
CT000BT00004	CT:FACCH Call SET-UP for Emergency Call	Passed
CT000BT00001	CT:No Radio Recourse on B-side	Passed
CT000BT00002	CT:Counter for IMSI Detach (Basic IMSI detach)	Passed
CT000BT00003	CT:Counter for IMSI Detach (FACCH IMSI detach)	Failed
CT000BT00051	CT:MS capability indication	NA
CT000BT00027	CT:Mobile Transmitting Power Increment	Passed
CT000BT00028	CT:Mobile Transmitting Power Decrement	Passed

RNW

CT000BT00209	CT:BCF Software Package Attachment	Passed
CT000BT00210	CT:SW Activation	Passed
CT000BT00216	CT:Guard Channel Management in ANSI	Passed
CT000BT00200	CT:BSC reset	Passed
CT000BT00201	CT:BTS reset, using Forced HO	Passed
CT000BT00205	CT:TRX Locking with Forced HO 2. (HO to adjacent cell)	Passed
CT000BT00270	CT:BCF Reset	Passed

2.2.2 Prime Site DF5.1**GPRS calls**

CT000GP00001	Attach and PDP context activation	Passed
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Mobile calls

CT000BT00050	CT:Dynamic SDCCH Allocation	Passed
CT000BT00004	CT:FACCH Call SET-UP for Emergency Call	Passed
CT000BT00001	CT:No Radio Recourse on B-side	Passed
CT000BT00002	CT:Counter for IMSI Detach (Basic IMSI detach)	Passed
CT000BT00003	CT:Counter for IMSI Detach (FACCH IMSI detach)	Failed
CT000BT00051	CT:MS capability indication	NA
CT000BT00027	CT:Mobile Transmitting Power Increment	Passed
CT000BT00028	CT:Mobile Transmitting Power Decrement	Passed
CT000BT00029	CT:BTS Transmitting Power Increment	Passed
CT000BT00030	CT:BTS Transmitting Power Decrement	Passed
CT000BT00031	CT:Variable Downlink step size	Passed

RNW

CT000BT00209	CT:BCF Software Package Attachment	Passed
CT000BT00210	CT:SW Activation	Passed
CT000BT00216	CT:Guard Channel Management in ANSI	Passed
CT000BT00200	CT:BSC reset	Passed
CT000BT00201	CT:BTS reset, using Forced HO	Passed
CT000BT00204	CT:TRX Locking with Forced HO 1. (HO in same cell)	Passed
CT000BT00205	CT:TRX Locking with Forced HO 2. (HO to adjacent cell)	Passed
CT000BT00206	CT:Save Calls By Forced HO prior to Cell recovery	Passed
CT000BT00270	CT:BCF Reset	Passed

2.2.3 Ultra Site CX3

Data calls

CT000BT00104	CT:Internal BSC Handover with Data Call	NA
CT000BT00246	CT:High Speed Circuit Switched Data (Resource Upgrade)	Passed
CT000BT00271	CT:High Speed Circuit Switched Data (Non-transparent + DR)	Passed

GPRS calls

CT000GP00010	Handover, inter BTS, intra PCU	Passed
CT000GP00011	Handover, inter BTS, inter PCU	NA

Mobile calls

CT000BT00005	CT:External Handover	Passed
CT000BT00006	CT:Internal Handover	Passed
CT000BT00007	CT:External Handover during Call establishment	Passed
CT000BT00008	CT:Internal Handover during Call establishment	Passed
CT000BT00050	CT:Dynamic SDCCH Allocation	Passed
CT000BT00004	CT:FACCH Call SET-UP for Emergency Call	Passed

RNW

CT000BT00200	CT:BSC reset	NA
CT000BT00201	CT:BTS reset, using Forced HO	Passed
CT000BT00204	CT:TRX Locking with Forced HO 1. (HO in same cell)	Passed
CT000BT00270	CT:BCF Reset	Passed

2.2.4 Ultra Site CX3L-2

Data calls

CT000BT00104	CT:Internal BSC Handover with Data Call	Passed
CT000BT00246	CT:High Speed Circuit Switched Data (Resource Upgrade)	Passed
CT000BT00271	CT:High Speed Circuit Switched Data (Non-transparent + DR)	Passed

GPRS calls

CT000GP00010	Handover, inter BTS, intra PCU	Passed
CT000GP00011	Handover, inter BTS, inter PCU	Passed
CT000GP00012	Handover, inter BTS, inter PCU, inter PAPU	Passed
CT000GP00013	Handover, inter BTS, inter BSC, intra PAPU	Passed
CT000GP00001	Attach and PDP context activation	Passed
CT000GP00002	CS and PS calls	Passed
CT000GP00003	PS call, additional TSL	Passed

Switchovers

IT0280200009	Controlled BCSU switchover, all TRXs and controlling PCU on switched over BCSU	Passed
IT0280200015	Forced BCSU switchover, all TRXs and controlling PCU on switched over BCSU	Passed

Mobile calls

CT000BT00005	CT:External Handover	Passed
CT000BT00006	CT:Internal Handover	Passed
CT000BT00007	CT:External Handover during Call establishment	Passed
CT000BT00008	CT:Internal Handover during Call establishment	Passed
CT000BT00050	CT:Dynamic SDCCH Allocation	Passed

RNW

CT000BT00201	CT:BTS reset, using Forced HO	Passed
CT000BT00204	CT:TRX Locking with Forced HO 1. (HO in same cell)	Passed
CT000BT00270	CT:BCF Reset	Passed
IT0280200003	BCSU reset, all TRXs and controlling PCU on reset	Passed

2.2.5 Ultra Site PU1E

Data calls

CT000BT00104	CT:Internal BSC Handover with Data Call	NA
CT000BT00246	CT:High Speed Circuit Switched Data (Resource Upgrade)	Passed
CT000BT00271	CT:High Speed Circuit Switched Data (Non-transparent + DR)	Passed

GPRS calls

CT000GP00010	Handover, inter BTS, intra PCU	Passed
CT000GP00011	Handover, inter BTS, inter PCU	Passed

Mobile calls

CT000BT00005	CT:External Handover	Passed
CT000BT00006	CT:Internal Handover	Passed
CT000BT00007	CT:External Handover during Call establishment	Passed
CT000BT00008	CT:Internal Handover during Call establishment	Passed
CT000BT00050	CT:Dynamic SDCCH Allocation	Passed
CT000BT00004	CT:FACCH Call SET-UP for Emergency Call	Passed

RNW

CT000BT00200	CT:BSC reset	NA
CT000BT00201	CT:BTS reset, using Forced HO	Passed
CT000BT00204	CT:TRX Locking with Forced HO 1. (HO in same cell)	Passed
CT000BT00270	CT:BCF Reset	Passed

2.3 MSC NE

2.3.1 M10

CT000AI00001	CT:Global reset because of subsystem changed in BSC	Passed
CT000AI00002	CT:Global reset because of subsystem changed in MSC	Passed
CT000AI00003	CT:Global reset because of system restart from MSC	Passed
CT000AI00004	CT:Reset circuit using MSC Radionetwork command	Passed
CT000AI00005	CT:Reset circuit at the BSS	Passed
CT000AI00006	CT:BSC reset after circuit group blocking and unblocking	Passed
CT000AI00009	CT:Global reset after blocking and unblocking speech circuits in BSC	Passed
CT000AI00010	CT:Global reset of BSC with calls	Passed
CT000AI00011	CT:Reset from MSC	Passed
CT000AI00012	CT:BSC SS7-link Maintenance	Passed
CT000AI00013	CT:Call re-establishment, without clear request	Passed
CT000AI00014	CT:Normal location update	Passed
CT000AI00015	CT:Periodic location update	Passed
CT000AI00008	CT:Access Class after global reset	Passed
CT000AI00007	CT:TCSM2 restart with circuit blocking	Passed
CTS1051000532	CT: BSS10005 Reversed hunting	Passed

2.4 NMS/OSS NE

2.4.1 T12

CT000NM00003	CT:Create new BCF, BTS, TRX and Links	Passed
CT000NM00004	CT:BTS Software Deployment	Passed
CT000NM00005	CT:Modify BTS and TRX Parameters	Passed
CT000NM00006	CT>Delete BCF, BTS and TRX	Passed
CT000NM00030	CT:Autoconfiguration	Passed

2.4.2 OSS3.1

CTS1051008401	BSS10084 Quality of Service Measurements	NA
STS1009B0004	Priority Based Scheduling in BSC (GPRS QoS Phase 1)	Passed

2.5 SGSN NE

2.5.1 SG2

CT000GP00030	Creation of Gb	Passed
CT000GP00031	BTS's RAC change	Passed
CT000GP00032	NSVC lock	Passed
CT000GP00033	Deletion of Gb	Passed
CT000GP00034	BCSU switchover by MML	Passed
CT000GP00035	BCSU restart by MML	Passed

3. FAULTS RAISED DURING COMPATIBILITY TESTING

Pronto ID : 399146

Title: GPRS data call cut out during inter PCU handover

State 4.7.2002: New