

COMPATIBILITY TESTS

BSC COMPATIBILITY TEST SUMMARY S10.5 RELEASE

ETSI

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DOCUMENT ADMINISTRATION**APPROVAL**

Edited by 2-Sep-2002 Markku Tuomisto	Checked by 2-Sep-2002 Markku Tuomisto	Approved by 5-Sep-2002 Jari Lehto
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INTERNAL HISTORY

14.03.1997	1.0-0	Tero Rantala	The first version
24.06.1998	2.0-0	Jyrki Korttesalmi	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 30.8.2002 distributed according to the table below (ETSI cases)

Passed	93%	116/125
Failed	0%	0/125
Not Tested	0%	0/125
Not Applicable	7%	9/125

Generally tests were run successfully. Three fault reports (PRONTO) were raised.

Test place: Access Networks Laboratory, IMN Site Tampere

Test personnel: IMN, Tampere:
Veikko Henttonen

Customer operations:
Piotr Rej (8.4.-3.5.)
Daniel Bergström (29.4.-17.5.)
Simone Valentini (6.5.-31.5.)
Mark Carter (6.5.-14.6.)
Jone Thingbo (27.5.-14.6.)
Enrico Cyrino (3.6.-28.6.)

Test days: 8.4.-30.8.2002

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, PU1E, DF5.1

1.1.1 Compatibilities verified by other testphases

Some of the compatibilities were verified during S10.5 System and Integration 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

S10.5 Integration Testing:

LMU	Rel1.0 (LMU mgmt on MS positioning, Q1)
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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, case is not tested

2.2 BTS NE

2.2.1 Metro Site CX2.0

Data calls

CT000BT00103	CT:Transmission of CBS Pages	Passed
CT000BT00104	CT:Internal BSC Handover with Data Call	Passed
CT000BT00245	CT:ALA 14.4 and 9.6 Kbit/s GSM Data Services	Passed
CT000BT00246	CT:High Speed Circuit Switched Data (Resource Upgrade)	Passed
CT000BT00271	CT:High Speed Circuit Switched Data (Non-transparent + DR)	Passed
CT000BT00106	CT:Inter BSC Handover with FAX Call	Passed
CT000BT00107	CT:External BSC Handover with FAX Call	Passed
CT000BT00100	CT:Short Message from Mobile to Mobile	Passed
CT000BT00101	CT:Short Message from Mobile to Mobile with Call	Passed
CT000BT00102	CT:Short Message from Mobile to Mobile with Call, Inter BSC HO	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

Mobile calls

CT000BT00025	CT:Intelligent Directed Retry	Passed
CT000BT00020	CT:Internal DR Handover, Call Succeed	Passed
CT000BT00021	CT:External DR Handover, Call not Succeed	Passed
CT000BT00022	CT:External DR Handover	Passed
CT000BT00023	CT:External DR HO, Congestion in Target BTS	Passed
CT000BT00026	CT:DR Improvement	Passed
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
CT000BT00009	CT:No Radio resources available at the A-Interface	Passed
CT000BT00010	CT:Improvement for Chained Cells in Rapid Field Drop	Passed
CT000BT00011	CT:Inter Superreuse Handover	Passed
CT000BT00012	CT:Direct Access to Superreused TRX in IUO	Passed
CT000BT00243	CT:Direct Access to Desired Layer/Band, Intra BSC-HO	Passed
CT000BT00244	CT:EGSM Support (TRI-Band -Handovers)	NA
CT000BT00248	CT:AMH, Advanced Multilayer Handling	Passed
CT000BT00050	CT:Dynamic SDCCH Allocation	Passed
CT000BT00004	CT:FACCH Call SET-UP for Emergency Call	Passed
CT000BT00001	CT:No Radio Resource on B-side	Passed
CT000BT00002	CT:Counter for IMSI Detach (Basic IMSI detach)	Passed
CT000BT00003	CT:Counter for IMSI Detach (FACCH IMSI detach)	Passed
CT000BT00051	CT:MS capability indication	Passed
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
CT000BT00016	CT:Assignment complete after Queuing	Passed
CT000BT00015	CT:Assignment cleared after Queuing	Passed
CT000BT00017	CT:External Handover Cleared after Queuing	Passed
CT000BT00018	CT:External Handover Complete after Queuing	Passed
CT000BT00019	CT:Normal Call Preempted by Emergency Call	Passed
CT000BT00013	CT:Internal SDCCH Handover	Passed
CT000BT00014	CT:External SDCCH Handover	Passed

RNW

CT000BT00207	CT:BB-Hopping with IUO	Passed
CT000BT00208	CT:RF-Hopping with IUO	Passed
CT000BT00209	CT:BCF Software Package Attachment	Passed
CT000BT00210	CT:SW Activation	Passed
CT000BT00211	CT:Fault for the BCCH TRX	Passed
CT000BT00212	CT:Fault for the TCH TRX	Passed
CT000BT00231	CT:Single TRX-test	NA
CT000BT00260	CT:Scheduled TRX-Test without Antenna-Test Parameter Through Q3	NA
CT000BT00252	CT:Scheduled TRX-Test with Antenna-Test Parameter Through Q3	NA
CT000BT00249	CT:Abis loop Test	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	NA
CT000BT00270	CT:BCF Reset	Passed

2.2.2 Talk Family DF5.1

GPRS calls

CT000GP00001	Attach and PDP context activation	Passed
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Mobile calls

CT000BT00020	CT:Internal DR Handover, Call Succeed	Passed
CT000BT00021	CT:External DR Handover, Call not Succeed	Passed
CT000BT00022	CT:External DR Handover	Passed
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
CT000BT00009	CT:No Radio resources available at the A-Interface	Passed
CT000BT00012	CT:Direct Access to Superreused TRX in IUO	Passed
CT000BT00016	CT:Assignment complete after Queuing	Passed
CT000BT00015	CT:Assignment cleared after Queuing	Passed
CT000BT00013	CT:Internal SDCCH Handover	Passed
CT000BT00014	CT:External SDCCH Handover	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
CT000AI00032	CT:Reversed Hunting	Passed
CT000AI00030	CT: AMR call	NA
CT000AI00031	CT: AMR Activating	NA
CTS1051000403	CT: BSS10004 Deactivation of Adaptive Multirate Codec (AMR)	NA

2.4 NMS/OSS NE

2.4.1 T12

CT000NM00001	CT:Start, disturb and end MML Session	Passed
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
CT000NM00011	CT:Identification Parameters Modification	Passed
CT000NM00014	CT:Start, monitor and end Generic Terminal Session	Passed
CT000NM00021	CT:Create Missing Objects from NW to NMS Database	Passed
CT000NM00022	CT:BGDB activation from NMS	Passed
CT000NM00031	CT:AC and APP	Passed
CT000NM00019	CT:BSS Alarm Database Upload to NMS	Passed
CT000NM00007	CT:Starting and stopping some Performance Measurements	Passed
CT000NM00016	CT:Checking Initial Tracing	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	NA
CT000GP00035	BCSU restart by MML	Passed

2.6 Transmission equipments

CT000TR00012	FIU Management	Passed
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2.7 Frame Erasure Rate (FER) Measurement

CTS1051002201 CT: BSS10022 FER measurement for FH, Passed
activation of measurement

CTS1051002202 CT: BSS10022 FER measurement during BCSU Passed
switchover (BB hopping used)

2.8 Automated frequency planning

CTS1051007201 CT: BSS10072 Automated frequency planning, Passed
Activation of DAC measurement

CTS1051007202 CT: BSS10072 Automated frequency planning, Passed
DAC measurement

3. FAULTS RAISED DURING COMPATIBILITY TESTING

Pronto ID : 244146

Title: Disabling GPRS of BTS by NMS T12 doesn't succeed.

State 11.6.2002: Corrected

Pronto ID : 483146

Title: Cell barred does not work => HO is not possible to the Super-reuse TRXs, when IUO is activated.

State 30.08.2002: Investigating

Pronto ID : 528146

Title: Hopping mode is wrong in counter dokumentation.

State 30.08.2002: Solved