Field Trial Technical Report

Applicant	Shanghai Simcom Wireless Solutions Limited
Type	SIM900
HW	V2.03
SW	SIM900 R11.0
Status	Final Report
Report Number	FT-RC015a-2010
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Test Laboratory:

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1.3 Reference Criteria

GCF Certification Criteria	Version 3.36.0 Appendix F3.5.1
Field Trial Guideline	GSMA DG.11 Version 7.0

2 Device Under Test (DUT)

2.1 Technical Information

Manufacture Shanghai Simcom Wireless Solutions Limited

Type SIM900

Description GPRS wireless module

Protocol GSM850/1800/1900/EGSM900

Claimed Features			
Supports OMA MMS 1.0, 1.1, 1.2 or 1.3	No	AMR A:NB B:WB	NB
GPRS Supported	Yes	Supports JAVA	No
GPRS Multi Slot Class	10	Supports HAC	No
EGPRS supported	No	Supports DARP	Yes
EGPRS Multi Slot Class	No	Supports GAN/UMA	No
HSDPA Supported	No	Supports OMA IMPS 1.2.1	No
HSUPA Supported	No	Supports CS 3GPP video telephony (VT)	No
SIM/USIM/UICC Supported	SIM	Supports Wi-Fi	No
SATK/USAT Supported	SATK	Speech A:FR B:HR C:EFR D：N/A	FR/HR/EFR
Supports OMA PoC 1.0	No	Supports SMS	Yes
Supports A-GPS	No	Supports OMA Device Management 1.2	No
Supports TTY	No	Supports OMA Browsing 2.1, 2.2 or 2.3	No
Supports Bluetooth	No	Supports Streaming	No
Supports WAP	No	Supports IMS/SIP	No

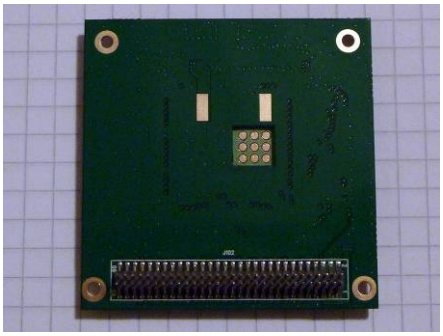
2.2 Tested Samples

In total, three pieces of samples are tested. Detailed configurations are listed. Additionally, the following versions of device driver are installed on the PC for dial-up.

DUT Number	A01	B01	C01
IMEI	012207000078946	012207000080660	012207000080124
HW Version	V2.03	V2.03	V2.03
SW Version	SIM900 R11.0	SIM900 R11.0	SIM900 R11.0
Receipt Date	2010-April-17	2010-April-17	2010-April-17

2.3 Exemplary photos of the tested sample

Front View



Back View

Evaluation board

Charger & data cable

Earpiece & antenna

2.4 Peripheral Facilities

A notebook PC is used as an email client. The PC configuration is listed here:

PC Dial-up Terminal	
Type	Notebook
Manufacture	Toshiba
CPU	Centrino 1.8GHz
OS	Microsoft Windows XP Professional Edition Service pack 2
Language	German/Spanish/Italian
Email client	web UI through Internet Explorer 6.0

3 Network Utilised

3.1 Overview

For BSS/MSC network dependent, GPRS network dependent, SMSC dependent, SIM/UICC dependent tests, Network independent and Terminal-to-Terminal dependent field trial, five networks are utilized, from which the corresponding SIMs/UICCs are applied. The utilized networks are located at:

a) O2, Munich, Germany
b) Vodafone, Munich, Germany
c) Vodafone, Barcelona, Spain
d) Telefonica Moviles, Barcelona, Spain
e) Vodafone Omnitel, Milano, Italy

3.2 Networks with SIM/UICCs

Following table details the network selected for the respective tests. The utilized DUT samples are given accordingly.

Country	Network Operator	Test and DUT					
		BSS/MSC network dependent	GPRS network dependent	SMSC dependent	SIM/UICC dependent	Network /SIM/UICC/ Client independent	Terminal-to -Terminal dependent
Germany	O2	A01	A01	A01	A01	A01	
	Vodafone	A01	A01		A01		A01
Italy	Vodafone Omnitel	B01	B01	B01	B01		
Spain	Vodafone	C01	C01	C01	C01		
	Telefonica Moviles	C01	C01		C01		

4 Definition of Classification

The DUT samples are tested according to the GSMA Field Trial Guideline and the GCF specification. Based on the conformation to the recommended test condition, procedure and expected behavior, the verdicts of each test case are classified in the following categories. The criteria are defined by their conformance levels, which are differentiated more finely than the GCF certification criteria. A comparison between the two criteria systems is listed for reference.

Verdict Categories	Corresponding Verdict in GCF report	Definition
PASS	EXEC	*PASS* refers to a test case fully completed under the predefined test conditions and through the recommended procedure, which resulted at expected behaviors.
FAIL	N/A	For the supported feature, *FAIL* indicates the DUT's unconformity to the recommended test condition, procedure or expected behavior, which result in an uncompleted test case. In addition, when DUT performs as expected only at a portion of a test case with multiple parts, such test case is marked as *FAIL* also, but with illustrative comment in the GCF report.
NS/M	N/A	*NS/M* claims the feature not supported by the DUT, which is however required by the test case. Please note that, in the statistic in *chapter 6*, such test case is excluded in the derivation of the *Pass-Ratio*.
NS/N	nN, nS or nT	The test case which is not supported by either the network or the SIMs/USIMs, or due to that no commercial reference is available, marked out as *NS/N*. For which no test is conducted due to an unavailable condition.
Not Tested	NOT TESTED	When the test case is not required on the customer's demand, or either prerequisite condition is not fulfilled or the dependent test cases are not passed, the case will not be tested.

5 Raised Issues and Comments

5.1 Network Related Issues

- Vodafone Germany

  Nothing to mention

- O2 Germany

  Nothing to mention

- Vodafone Spain

  Nothing to mention

- Telefonica Moviles Spain

  Nothing to mention

- Vodafone Omnitel Italy

  Nothing to mention

5.2 Testers' Comments

Test engineers shall summarize the end user experience. The views here shall be treated as additional feedback, which are not included in the final GCF report.

Nothing to mention

6 Test Results

Besides the detailed results of all test cases, a statistics of all the test sections over the networks and bearers are given for overview purpose.

6.1 O2 Germany

	BSS/MSC network dependent (BM)		GPRS network dependent (GPRS)		SMSC dependent (SMS)		SIM/UICC dependent (2GSIM)		Network/SIM/UICC/Client independent (NI)		Terminal-To-Terminal dependent (T2T)	
Total Cases	59		20		15		15		87			
NS/M	6	10%	8	40%	0	0%	1	7%	14	16%		
NS/N	20	34%	2	10%	0	0%	0	0%	0	0%		
Not Tested	0	0%	0	0%	0	0%	0	0%	0	0%		
Applicable cases	33		10		15		14		73			
PASS	33	100%	10	100%	15	100%	14	100%	73	100%		
FAIL	0	0%	0	0%	0	0%	0	0%	0	0%		

6.2 Vodafone Germany

	BSS/MSC network dependent (BM)		GPRS network dependent (GPRS)		SMSC dependent (SMS)		SIM/UICC dependent (2GSIM)		Network/SIM/UICC/Client independent (NI)		Terminal-To-Terminal dependent (T2T)	
Total Cases	59		20				15				10	
NS/M	6	10%	9	45%			1	7%			10	100%
NS/N	7	12%	0	0%			0	0%			0	0%
Not Tested	0	0%	0	0%			0	0%			0	0%
Applicable cases	46		11				14				0	
PASS	46	100%	11	100%			14	100%			0	0%
FAIL	0	0%	0	0%			0	0%			0	0%

6.3 Vodafone Omnitel Italy

	BSS/MSC network dependent (BM)		GPRS network dependent (GPRS)		SMSC dependent (SMS)		SIM/UICC dependent (2GSIM)		Network/SIM/UICC/Client independent (NI)		Terminal-To-Terminal dependent (T2T)	
Total Cases	59		20		15		15					
NS/M	6	10%	9	45%	0	0%	1	7%				
NS/N	4	7%	0	0%	0	0%	4	27%				
Not Tested	0	0%	0	0%	0	0%	0	0%				
Applicable cases	49		11		15		10					
PASS	49	100%	11	100%	15	100%	10	100%				
FAIL	0	0%	0	0%	0	0%	0	0%				

6.4 Vodafone Spain

	BSS/MSC network dependent (BM)		GPRS network dependent (GPRS)		SMSC dependent (SMS)		SIM/UICC dependent (2GSIM)		Network/SIM/UICC/Client independent (NI)		Terminal-To-Terminal dependent (T2T)	
Total Cases	59		20		15		15		38			
NS/M	6	10%	9	45%	0	0%	1	7%	9	24%		
NS/N	5	8%	0	0%	0	0%	0	0%	0	0%		
Not Tested	0	0%	0	0%	0	0%	0	0%	0	0%		
Applicable cases	48		11		15		14		29			
PASS	48	100%	11	100%	15	100%	14	100%	29	100%		
FAIL	0	0%	0	0%	0	0%	0	0%	0	0%		

6.5 Telefonica Moviles Spain

	BSS/MSC network dependent (BM)		GPRS network dependent (GPRS)		SMSC dependent (SMS)		SIM/UICC dependent (2GSIM)		Network/SIM/UICC/Client independent (NI)		Terminal-To-Terminal dependent (T2T)	
Total Cases	**59**		**20**				**15**					
NS/M	6	10%	9	45%			1	7%				
NS/N	5	8%	0	0%			4	27%				
Not Tested	0	0%	0	0%			0	0%				
Applicable cases	**48**		**11**				**10**					
PASS	48	100%	11	100%			10	100%				
FAIL	0	0%	0	0%			0	0%				

7 GCF Field Trial Results (GCF-CC-3360-F351)

7.1 For BSS/MSC network dependent Field Trial Requirements (BM)

Reference		MSC/BSC Network Configuration						Comment
GCF No.	DG11 No	Description	BM #1	BM #2	BM #3	BM #4	BM #5	
BM-1.1	**4**	**SYSTEM ACCESS AND REGISTRATION**						
BM-1.1.1	4.3	IMSI Attach and Detach - Attach	PASS	PASS	PASS	PASS	PASS	
BM-1.1.2	4.4	IMSI Attach and Detach - Detach	PASS	PASS	PASS	PASS	PASS	
BM-1.2	**9**	**PS Mobility**						
BM-1.2.1	9.2.1	Combined Attach and Detach (in NMO1) - Attach	NS/N	NS/N	NS/N	NS/N	NS/N	
BM-1.2.2	9.2.1	Combined Attach and Detach (in NMO1) - Detach	NS/N	NS/N	NS/N	NS/N	NS/N	
BM-1.2.5	9.8.2	Routing Area Update - Periodic Routing Area Update	NS/N	NS/N	NS/N	NS/N	NS/N	
BM-2	**3 and 4**	**CS Mobility**						
BM-2.1.1	4.1.1	Normal Location Updating – Normal case (No GPRS attach)	PASS	PASS	PASS	PASS	PASS	
BM-2.3.1	3.1	Operation on different frequency bands	PASS	PASS	PASS	PASS	PASS	
BM-2.3.2	3.1	Handover between different codec types/rates	PASS	PASS	PASS	PASS	PASS	
BM-2.3.3	3.1	Handover between cells with and without frequency hopping	PASS	PASS	PASS	PASS	PASS	
BM-2.3.4	3.1	Handover between synchronised cells and handover between non-synchronised cells	NS/N	PASS	PASS	PASS	PASS	
BM-2.3.5	3.1	Handover moving between the coverage areas of two different MSCs	PASS	PASS	PASS	PASS	PASS	
BM-2.4.1	40.6.2.5	WB-AMR 2G -> 2G handover	NS/M	NS/M	NS/M	NS/M	NS/M	
BM-4	**40**	**BASIC VOICE CALLS CS**						
BM-4.1.1	40.1.1	Mobile originated call - To PBX extension	PASS	PASS	PASS	PASS	PASS	
BM-4.1.2	40.1.1	Mobile originated call - To Mobile	PASS	PASS	PASS	PASS	PASS	
BM-4.1.3	40.1.2	Mobile originated call to occupied phone - To PBX extension	PASS	PASS	PASS	PASS	PASS	
BM-4.1.4	40.1.2	Mobile originated call to occupied phone - To Mobile	PASS	PASS	PASS	PASS	PASS	
BM-4.1.5	40.1.3	Mobile originated call to international B-subscriber (with "+") - To another country	PASS	PASS	PASS	PASS	PASS	
BM-4.1.6	40.1.3	Mobile originated call to international B-subscriber (with "+") - To the same country	PASS	PASS	PASS	PASS	PASS	
BM-4.1.7	40.1.3	Mobile originated call to international B-subscriber (with "+") - To another country with	PASS	PASS	PASS	PASS	PASS	
BM-4.1.8	40.1.3	Mobile originated call to international B-subscriber (with "+") - To the same country	PASS	PASS	PASS	PASS	PASS	
BM-4.2.1	40.2	Mobile terminated call - From PBX extension	PASS	PASS	PASS	PASS	PASS	
BM-4.2.2	40.2	Mobile terminated call - From Mobile	PASS	PASS	PASS	PASS	PASS	
BM-4.3.1	40.3.1	Interrogation for the CLIP status (*#30#) - With *#30#	PASS	PASS	PASS	PASS	PASS	

BM-4.3.2	40.3.1	Interrogation for the CLIP status (*#30#) - With the menu	PASS	PASS	PASS	PASS	PASS	
BM-4.3.3	40.3.2	Interrogation for the CLIR status (*#31#) - With *#31#	PASS	PASS	PASS	PASS	PASS	
BM-4.3.4	40.3.2	Interrogation for the CLIR status (*#31#) - With the menu	PASS	PASS	PASS	PASS	PASS	
BM-4.4.1	40.4	Basic Voice Calls - DTMF	PASS	PASS	PASS	PASS	PASS	
BM-4.5.1	40.6.1.1	WB-AMR originated call to 2nd WB-AMR device	NS/M	NS/M	NS/M	NS/M	NS/M	
BM-4.5.2	40.6.1.2	WB-AMR terminated call from 2nd WB-AMR device	NS/M	NS/M	NS/M	NS/M	NS/M	
BM-4.5.3	40.6.1.3	Mobile originated call to device not supporting WB-AMR	NS/M	NS/M	NS/M	NS/M	NS/M	
BM-4.5.4	40.6.5.1	DTMF during WB-AMR call	NS/M	NS/M	NS/M	NS/M	NS/M	
BM-5	**42**	**SUPPLEMENTARY SERVICES**						
BM-5.1.1	42.1	Call Forwarding - CFU - without basic services - Code	PASS	PASS	PASS	PASS	PASS	
BM-5.1.2	42.1	Call Forwarding - CFB - without basic services - Code	PASS	PASS	PASS	PASS	PASS	
BM-5.1.3	42.1	Call Forwarding - CFNRY - without basic services - Code	PASS	PASS	PASS	PASS	PASS	
BM-5.1.4	42.1	Call Forwarding - CFNRC - without basic services - Code	PASS	PASS	PASS	PASS	PASS	
BM-5.1.5	42.1	Call Forwarding - CFU - with provisioned basic services fax - Code	NS/N	PASS	PASS	PASS	PASS	
BM-5.1.6	42.1	Call Forwarding - CFB - with provisioned basic services fax - Code	NS/N	PASS	PASS	PASS	PASS	
BM-5.1.7	42.1	Call Forwarding - CFNRY - with provisioned basic services fax - Code	NS/N	PASS	PASS	PASS	PASS	
BM-5.1.8	42.1	Call Forwarding - CFNRC - with provisioned basic services fax - Code	NS/N	PASS	PASS	PASS	PASS	
BM-5.1.9	42.1.6.1	Call Forwarding - Display message of registered and activated call forwarding during	NS/M	NS/M	NS/M	NS/M	NS/M	
BM-5.2.1	42.3.1	Call Waiting - Setting without basic service - Code	PASS	PASS	PASS	PASS	PASS	
BM-5.2.2	42.3.1.1	Call Waiting - waiting call indication - Local clear	PASS	PASS	PASS	PASS	PASS	
BM-5.2.3	42.3.1.1	Call Waiting - waiting call indication - Call hold	PASS	PASS	PASS	PASS	PASS	
BM-5.2.4	42.3.1.1	Call Waiting - waiting call indication - Distant clear	PASS	PASS	PASS	PASS	PASS	
BM-5.2.5	42.3.2	Call Hold - Hold/Retrieve	PASS	PASS	PASS	PASS	PASS	
BM-5.2.6	42.3.2	Call Hold - Alternate between two calls	PASS	PASS	PASS	PASS	PASS	
BM-5.3.1	42.4	Multi Party - Join (party 1, party 2 and party 3)	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.2	42.4	Multi Party - MPTY on hold, Take extra MT call (party 4)	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.3	42.4	Multi Party - Add MT call (party 4) to MPTY	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.4	42.4	Multi Party - MPTY on hold, Make MO call (party 5)	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.5	42.4	Multi Party - Alternate between MO call (party 5) & MPTY	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.6	42.4	Multi Party - Add MO call (party 5) to MPTY	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.7	42.4	Multi Party - MPTY on hold, Make MO call (party 6)	NS/N	PASS	PASS	NS/N	PASS	
BM-5.3.8	42.4	Multi Party - Add MO call (party 6) to MPTY	NS/N	PASS	PASS	NS/N	PASS	

BM-5.3.9	42.4	Multi Party - MPTY on hold, Take extra MT call (party 7)	NS/N	PASS	NS/N	NS/N	NS/N	
BM-5.3.10	42.4	Multi Party - Add MT call (party 7) to MPTY – attempt fails	NS/N	PASS	NS/N	NS/N	NS/N	
BM-5.3.11	42.4	Multi Party - Clear one party from MPTY, and add MTC to MPTY	NS/N	PASS	PASS	PASS	PASS	
BM-5.3.12	42.4	Multi Party - Private communication with one party, rest of MPTY on hold	NS/N	PASS	PASS	PASS	PASS	
BM-5.4.1	42.6.5	USSD - Invoke a USSD request	PASS	NS/N	PASS	PASS	PASS	

7.2 For GPRS network dependent Field Trial Requirements (GPRS)

Reference		GPRS Network Configuration						Comment
GCF No.	DG.11 No.	Description	GPRS #1	GPRS #2	GPRS #3	GPRS #4	GPRS #5	
GPRS-1	**9**	**GPRS Attach and Detach**						
GPRS-1.1.1	9.2.1	GPRS Service Indication (registered to the	PASS	PASS	PASS	PASS	PASS	
GPRS-1.1.2	9.2.4	GSM and GPRS roaming allowed	PASS	PASS	PASS	PASS	PASS	
GPRS-2	**9.4**	**PDP Context Activation**						
GPRS-2.1.1	9.4.2	MO PDP context activation - MO PDP context activation for PC Dial-Up	PASS	PASS	PASS	PASS	PASS	
GPRS-2.1.2	9.4.1	MO PDP context activation - MO PDP context activation for Browsing Application	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-2.1.3	9.4.5	PDP context activation initiated by the UE, rejected by the network with cause unknown APN - PDP context activation rejected for PC Dial-UP	NS/N	PASS	PASS	PASS	PASS	
GPRS-2.1.4	9.4.5	PDP context activation initiated by the UE, rejected by the network with cause unknown APN - PDP context activation rejected for Browsing Application	NS/N	NS/M	NS/M	NS/M	NS/M	
GPRS-2.1.5	9.4.3	Multiple PDP Activation - 2 Simultaneous PDP Context Activation	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-3	**9.5**	**PDP Context De-activation**						
GPRS-3.1.1	9.5.1	Manual MO PDP context deactivation - Manual MO PDP context deactivation for PC Dial-Up	PASS	PASS	PASS	PASS	PASS	
GPRS-3.1.2	9.5.1	Manual MO PDP context deactivation - Manual MO PDP context deactivation for Browsing	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-3.1.3	9.5.1	Multiple PDP Deactivation – 2 Simultaneous PDP Context – MO deactivation	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-4	**9**	**GPRS FTP**						
GPRS-4.1.1	9.9.1	–Stationary Downlink Throughput	PASS	PASS	PASS	PASS	PASS	
GPRS-4.1.2	9.9.3	–Stationary Uplink Throughput	PASS	PASS	PASS	PASS	PASS	
GPRS-5	**9**	**GPRS Mobility**						
GPRS-5.1.1	9.8.3.1	Reselection with no GPRS data transfer – Idle Mode Circuit Switched 2G Reselection Packet	PASS	PASS	PASS	PASS	PASS	
GPRS-5.1.2	9.8.3.2	Idle Mode Circuit Switched 2G Reselection Packet Attached (PDPc Active, No Data	PASS	PASS	PASS	PASS	PASS	
GPRS-5.1.3	9.8.4.1	Reselection with GPRS data transfer – GPRS Reselection while Transmitting Data	PASS	PASS	PASS	PASS	PASS	
GPRS-6	**10.3**	**Interaction with GSM**						
GPRS-6.1.1	10.3	Verify the GSM services while MS is in GMM standby/ready states	PASS	PASS	PASS	PASS	PASS	
		Additional EGPRS FT requirements						
GPRS-7	**10.1**	**EPGRS Stationary**						
GPRS-7.1.1	10.1.2	Stationary Downlink Data Transfer Stability	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-7.1.2	10.1.4	Stationary Uplink Data Transfer Stability	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-8	**10.2**	**EGPRS Mobility**						
GPRS-8.1.1	10.2.1	Downlink Performance under Mobility Conditions	NS/M	NS/M	NS/M	NS/M	NS/M	
GPRS-8.1.2	10.2.2	Uplink Performance under Mobility Conditions	NS/M	NS/M	NS/M	NS/M	NS/M	

7.3 For SMSC dependent Field Trial Requirements (SMS)

Reference		SMSC Configuration				
GCF No.	DG.11 No.	Description				Comment
SMS-1	41	SHORT MESSAGE SERVICE (SMS)	SMS #1	SMS #2	SMS #3	
SMS-1.1.1	41.1.5	SMS mobile originated - Status Report	PASS	PASS	PASS	
SMS-1.1.2	41.1.7.1	Input SM (160 characters) when using MMI language of Default 7-bit alphabet	PASS	PASS	PASS	
SMS-1.1.3	41.1.8.1	Input concatenated SM - Default 7-bit alphabet (over 160 characters)	PASS	PASS	PASS	
SMS-1.1.4	41.1.8.2	Input concatenated SM - Extended default 7-bit alphabet (over 140 Bytes)	PASS	PASS	PASS	
SMS-1.1.5	41.1.8.3	Input concatenated SM - UCS-2 alphabet (over 70 characters)	PASS	PASS	PASS	
SMS-1.2.1	41.2.1	SMS mobile terminated - During mobile in idle mode	PASS	PASS	PASS	
SMS-1.2.2	41.2.6	SMS mobile terminated - Return call to the originating number	PASS	PASS	PASS	
SMS-1.2.3	41.2.8.1	Terminated Concatenated SM - Default 7-bit alphabet (max. capacity)	PASS	PASS	PASS	
SMS-1.2.4	41.2.8.2	Terminated Concatenated SM - UCS2 alphabet (max. capacity)	PASS	PASS	PASS	
SMS-1.2.5	41.2.8.3	Terminated Concatenated SM - Terminated concatenated SM (over MS max. capacity)	PASS	PASS	PASS	
SMS-1.3.1	41.3.1	Message class 0 to 3 (SMS mobile terminated) - SM class 0 (accept and displayed, but not stored)	PASS	PASS	PASS	
SMS-1.3.2	41.3.2	Message class 0 to 3 (SMS mobile terminated) - SM class 1 (storing in ME and displaying)	PASS	PASS	PASS	
SMS-1.3.3	41.3.3	Message class 0 to 3 (SMS mobile terminated) - SM class 2 (storing in SIM and displaying)	PASS	PASS	PASS	
SMS-1.4.1	41.9.1	Memory full condition (general function) - Store SM on the SIM; when SIM memory full	PASS	PASS	PASS	
SMS-1.4.2	41.9.3	Memory full condition (general function) - Delete SM on the SIM	PASS	PASS	PASS	

7.4 For SIM/UICC dependent Field Trial Requirements (2GSIM)

Reference		Configuratio						Comments
GCF No.	DG.11 No.	Description	2GSIM #1	2GSIM #2	2GSIM #3	2GSIM #4	2GSIM #5	
2GSIM-1	**7**	**SIM Management**						
2GSIM-1.1.1	7.2.1	PIN1 handling - 7.2.1 Change of PIN1	PASS	PASS	PASS	PASS	PASS	
2GSIM-1.1.3	7.2.3	PIN1 handling - 7.2.3 Change of PIN1, old PIN1 w rong	PASS	PASS	PASS	PASS	PASS	
2GSIM-1.1.5	7.2.5	PIN1 handling - 7.2.5 Deactivation of PIN1	PASS	PASS	PASS	PASS	PASS	
2GSIM-1.1.7	7.2.7	PIN1 handling - 7.2.7 Activation of PIN1	PASS	PASS	PASS	PASS	PASS	
2GSIM-1.1.9	7.2.9	PIN1 handling - 7.2.9 Unblocking of blocked PIN1	PASS	PASS	PASS	PASS	PASS	
2GSIM-1.1.10	7.3.1	PIN2 handling - 7.3.1 Change of PIN2	PASS	NS/N	NS/N	PASS	PASS	
2GSIM-1.1.12	7.3.3	PIN2 handling - 7.3.3 Change of PIN2, old PIN2 w rong	PASS	NS/N	NS/N	PASS	PASS	
2GSIM-1.1.15	7.3.6	PIN2 handling - 7.3.6 Unblocking of blocked PIN2	PASS	NS/N	NS/N	PASS	PASS	
2GSIM-1.1.16	7.14	Language Preference (LP) - 7.14 Language Preference (LP)	NS/M	NS/M	NS/M	NS/M	NS/M	
2GSIM-1.1.17	7.5.28	FDN - 7.5.2 Correct Operation Of FDN	PASS	NS/N	NS/N	PASS	PASS	
2GSIM-2	**25**	**SIM/USIM INTER-WORKING**						
2GSIM-2.1.1	25.1.2.1	Support of SMSP (Short Message Service Parameter) - Read SMSP	PASS	PASS	PASS	PASS	PASS	
2GSIM-2.1.2	25.1.2.2	Support of SMSP (Short Message Service Parameter) - Write SMSP (e.g. check correct storing of SMSP parameters)	PASS	PASS	PASS	PASS	PASS	
2GSIM-2.1.3	25.1.4.1	Phonebook tests - Reading / Writing / Deleting	PASS	PASS	PASS	PASS	PASS	
2GSIM-2.1.4	25.3.2	USIM Interoperability - MSISDN saved on USIM	PASS	PASS	PASS	PASS	PASS	
2GSIM-2.1.5	25.4.2.1	2G terminals using ICC/UICC w ith SIM - 7.4.3 Storage of SSC string (including international number: '**21*+49DN#'	PASS	PASS	PASS	PASS	PASS	

7.5 For Network/SIM/UICC/Client independent Field Trial Requirements (NI)

Reference				
GCF No.	DG.11 No.	Test Scenario Title	Test Verdict	Comment
NI-1	40	BASIC VOICE CALLS CS		
NI-1.1.1	40.1.1	Mobile originated calls - To ISDN	PASS	
NI-1.1.2	40.1.1	Mobile originated calls - To PSTN	PASS	
NI-1.1.3	40.1.2	Mobile originated call to occupied phone - To ISDN	PASS	
NI-1.1.4	40.1.2	Mobile originated call to occupied phone - To PSTN	PASS	
NI-1.1.5	40.1.3	Mobile originated call to international B-subscriber (with "+") - Mobile origin. call complete (to ISDN phone); CLIR temporarily activated	PASS	
NI-1.2.1	40.2	Mobile terminated calls - From PSTN	PASS	
NI-1.2.2	40.2	Mobile terminated calls - From ISDN	PASS	
NI-1.3.1	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Dial {112, 911}	PASS	
NI-1.3.2	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Dial {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.3	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Dial national emergency number	PASS	
NI-1.3.4	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Without dialling any dedicated number (Softkey)	NS/M	
NI-1.3.5	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Keypad blocked {112, 911}	NS/M	
NI-1.3.6	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Keypad blocked {08, 000, 110, 118, 119, 999}	NS/M	
NI-1.3.7	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - FDN Activated {112, 911}	PASS	
NI-1.3.8	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - FDN Activated {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.9	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Camped on Acceptable cell {112, 911} (Emergency Camping)	PASS	
NI-1.3.10	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - Camped on Acceptable cell {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.11	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - MS locked {112, 911}	NS/M	
NI-1.3.12	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - MS locked {08, 000, 110, 118, 119, 999}	NS/M	
NI-1.3.13	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Dial {112, 911}	PASS	
NI-1.3.14	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Dial numbers stored in SIM/USIM	PASS	
NI-1.3.15	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Dial {08, 000, 110, 118, 119, 999} if not stored in SIM/USIM	PASS	
NI-1.3.16	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Dial national emergency number	PASS	
NI-1.3.17	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Without dialling any dedicated number	NS/M	
NI-1.3.18	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Keypad blocked {112, 911}	NS/M	
NI-1.3.19	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Keypad blocked with numbers stored in SIM/USIM	NS/M	
NI-1.3.20	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Keypad blocked {08, 000, 110, 118, 119, 999} if not stored in	NS/M	
NI-1.3.21	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - FDN Activated {112, 911}	PASS	
NI-1.3.22	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - FDN Activated with numbers stored in SIM/USIM	PASS	
NI-1.3.23	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - FDN Activated {08, 000, 110, 118, 119, 999} if not stored in SIM/USIM	PASS	

NI-1.3.24	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Camped on Acceptable cell {112, 911} (Emergency Camping)	PASS	
NI-1.3.25	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Camped on Acceptable cell with numbers stored in SIM/USIM	PASS	
NI-1.3.26	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - Camped on Acceptable cell {08, 000, 110, 118, 119, 999} if not	PASS	
NI-1.3.27	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - MS locked {112, 911}	NS/M	
NI-1.3.28	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - MS locked with numbers stored un SIM/USIM	NS/M	
NI-1.3.29	40.5.2	Emergency calls, with SIM/USIM, emergency numbers stored - MS locked {08, 000, 110, 118, 119, 999}	NS/M	
NI-1.3.30	40.5.3	Emergency calls, without SIM/USIM - Dial {112, 911}	PASS	
NI-1.3.31	40.5.3	Emergency calls, without SIM/USIM - Dial {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.32	40.5.3	Emergency calls, without SIM/USIM - Without dialling any dedicated number	NS/M	
NI-1.3.33	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - No PIN {112, 911}	PASS	
NI-1.3.34	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - No PIN {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.35	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - PIN1 blocked {112, 911}	PASS	
NI-1.3.36	40.5.1	Emergency calls, with SIM/USIM, no emergency number stored - PIN1 blocked {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.37	40.5.2	Emergency calls, with SIM/USIM, emergency number stored - No PIN {112, 911}	PASS	
NI-1.3.38	40.5.2	Emergency calls, with SIM/USIM, emergency number stored - No PIN {08, 000, 110, 118, 119, 999}	PASS	
NI-1.3.39	40.5.2	Emergency calls, with SIM/USIM, emergency number stored - PIN1 blocked {112, 911}	PASS	
NI-1.3.40	40.5.2	Emergency calls, with SIM/USIM, emergency number stored - PIN1 blocked {08, 000, 110, 118, 119, 999}	PASS	
NI-2	**41**	**SHORT MESSAGE SERVICE (SMS)**		
NI-2.1.1	41.1.2	SMS mobile originated - SM Validity Period	PASS	
NI-2.1.2	41.1.10	Input concatenated SM - During call	PASS	
NI-2.1.3	41.1.11	Input concatenated SM - When out of coverage	PASS	
NI-2.2.1	41.2.3	SMS mobile terminated - Reception of unsupported SM types	NS/N	
NI-2.2.2	41.2.4	SMS mobile terminated - During call	PASS	
NI-2.2.3	41.2.5	SMS mobile terminated - Acoustic signal, after new short message (no Class) arrived	PASS	
NI-2.2.4	41.2.7	SMS mobile terminated - Call a number included in the text of the SM	NS/M	
NI-2.3.1	41.3.5	SMS mobile terminated - Message Type 0	PASS	
NI-2.4.1	41.7.1	Short Message SIM data fields - Store MO-SM on the SIM and verify the content of the SM data fields on the SIM	PASS	
NI-2.4.2	41.7.2	Short Message SIM data fields - Store MT-SM (read) on the SIM and verify the content of the SM data fields on the SIM	PASS	
NI-2.4.3	41.7.3	Short Message SIM data fields - Store MT-SM (unread) on the SIM and verify the content of the SM data fields on the SIM	PASS	
NI-2.4.4	41.7.4	Short Message SIM data fields - Delete SM on the SIM and verify the content of the SM data fields on the SIM	PASS	
NI-2.5.1	41.8.2.1	SMS - Extended default 7-bit alphabet - Message storage	PASS	

NI-2.5.2	41.8.2.2	SMS - Extended default 7-bit alphabet - Message transmission	PASS	
NI-2.5.3	41.8.2.3	SMS - Extended default 7-bit alphabet - Message reception	PASS	
NI-2.5.4	41.8.2.4	SMS - Extended default 7-bit alphabet - Character counter	PASS	
NI-2.5.5	41.8.3.1	SMS - UCS-2 alphabet - Message storage	PASS	Test only Latin UCS-2
NI-2.5.6	41.8.3.2	SMS - UCS-2 alphabet - Message transmission	PASS	Test only Latin UCS-2
NI-2.5.7	41.8.3.3	SMS - UCS-2 alphabet - Message reception	PASS	Test only Latin UCS-2
NI-2.5.8	41.8.3.4	SMS - UCS-2 alphabet - Character counter	PASS	Test only Latin UCS-2
NI-3	**42**	**SUPPLEMENTARY SERVICES**		
NI-3.1.1	42.1	Call Forwarding - CFU - without basic services – Menus	PASS	
NI-3.1.2	42.1	Call Forwarding - CFB - without basic services – Menus	PASS	
NI-3.1.3	42.1	Call Forwarding - CFNRY - without basic services – Menus	PASS	
NI-3.1.4	42.1	Call Forwarding - CFNRC - without basic services - Menus	PASS	
NI-3.1.5	42.1	Call Forwarding - CFU - with provisioned basic services fax - Menus	PASS	
NI-3.1.6	42.1	Call Forwarding - CFB - with provisioned basic services fax - Menus	PASS	
NI-3.1.7	42.1	Call Forwarding - CFNRY - with provisioned basic services fax - Menus	PASS	
NI-3.1.8	42.1	Call Forwarding - CFNRC - with provisioned basic services fax - Menus	PASS	
NI-3.2.1	42.2	Call Barring - BAOC - without basic services - Code	NS/N	
NI-3.2.2	42.2	Call Barring - BOIC - without basic services - Code	NS/M	
NI-3.2.3	42.2	Call Barring - BOIC-exHC - without basic services - Code	NS/M	
NI-3.2.4	42.2	Call Barring - BAIC - without basic services - Code	NS/N	
NI-3.2.5	42.2	Call Barring - BAIC-R - without basic services - Code	NS/M	
NI-3.2.6	42.2	Call Barring - BAOC - without basic services - Menus	NS/N	
NI-3.2.7	42.2	Call Barring - BOIC - without basic services - Menus	PASS	
NI-3.2.8	42.2	Call Barring - BOIC-exHC - without basic services - Menus	PASS	
NI-3.2.9	42.2	Call Barring - BAIC - without basic services - Menus	NS/N	
NI-3.2.10	42.2	Call Barring - BAIC-R - without basic services - Menus	PASS	
NI-3.2.11	42.2	Call Barring - General deactivation of barring services - Code	NS/M	
NI-3.2.12	42.2	Call Barring - General deactivation of barring services - Menus	PASS	
NI-3.2.13	42.2	Call Barring - Change of password - Code - *03**OLD* NEW*NEW#	NS/M	
NI-3.2.14	42.2	Call Barring - Change of password - Code - **03**OLD* NEW*NEW#	NS/M	
NI-3.2.15	42.2	Call Barring - Change of password - Code - *03*330*OLD*	NS/M	
NI-3.2.16	42.2	Call Barring - Change of password - Menus	PASS	
NI-3.3.1	42.3.1	Call Waiting - Setting without basic service - Menu	PASS	

NI-4	**4.1 & 4.2**	**Location Update (Normal & Periodic)**		
NI-4.1.1	4.1. 2	Normal Location Updating - Normal Location Updating with TMSI unknown in VLR	PASS	
NI-4.2.1	4.2.1	Periodic Location Updating - Successful - Normal Operation	PASS	
NI-4.2.2	4.2.2	Periodic Location Updating - Reset of T3212 – After receiving ' AUTHENTICATION REJECT' message.	PASS	
NI-4.2.3	4.2.2	Periodic Location Updating – Reset of T3212 – After a SMS is sent or received	PASS	
NI-4.2.4	4.2.2	Periodic Location Updating – Reset of T3212 – After a Supplementary Service procedure is operated	PASS	
NI-4.2.5	4.2.2	Periodic Location Updating – Reset of T3212 – After a call is set up or received	PASS	
NI-4.2.6	4.2.3	Periodic Location Updating – UE out of coverage and back in coverage before T3212 expiry – No other network available	PASS	
NI-4.2.7	4.2.3	Periodic Location Updating – UE out of coverage and back in coverage before T3212 expiry – After Emergency Camping	PASS	
NI-4.2.8	4.2.4	Periodic Location Updating - UE out of coverage and back in coverage after T3212 expiry - No other network available	PASS	
NI-4.2.9	4.2.4	Periodic Location Updating - UE out of coverage and back in coverage after T3212 expiry – After Emergency Camping	PASS	
NI-5	**9**	**GPRS Attach and Detach**		
NI-5.1.1	9.2.6	GSM roaming allowed/GPRS roaming not allowed in this PLMN (Reject cause #14)	PASS	
NI-5.1.2	9.2.7	GSM roaming allowed/GPRS Service not allowed (Reject cause #7)	PASS	
NI-5.2	**9.5**	**PDP Context Deactivation**		
NI-5.2.1	9.5.3	Network initiated PDP context deactivation	PASS	
NI-6	**2.1**	**Network Selection**		
NI-6.1	2.2.1.1	Network Selection - Automatic Mode at Power on - UE selects a prioritised network (PLMNsel List on the SIM(<=R98))	PASS	
NI-6.2	2.2.1.2	Network Selection - Automatic Mode at Power on - UE selects a prioritised network (User controlled PLMNwAcT List on the	PASS	
NI-6.3	2.2.1.3	Network Selection - Automatic Mode at Power on - UE selects a prioritised network (Operator controlled OPLMNwAcT List on the	PASS	
NI-6.4	2.2.3.1	Periodic HPLMN searching when in Roaming - UE re-selects a prioritised network, Different Values of the HPLMN Timer / No	PASS	
NI-6.5	2.2.3.2	Periodic HPLMN searching when in Roaming - UE re-selects a higher prioritised network when camping on a prioritised network	PASS	
NI-6.6	2.2.3.3	Periodic HPLMN searching when in Roaming - UE re-selects a higher prioritised network when camping on a non prioritised network	PASS	
NI-6.7	2.3	Network Selection - Manual Mode - Network on Forbidden List	PASS	
NI-6.8	2.3	Network Selection - Manual Mode - Network on Preferred PLMN List	PASS	
NI-6.9	2.3	Network Selection - Manual Mode - More than 32 entries on Preferred PLMN List	NS/N	
NI-6.10	2.4	Network Selection - Selection mode following switch off - Manual Network Selection	PASS	
NI-6.11	2.4	Network Selection - Selection mode following switch off - Automatic Network Selection	PASS	
NI-6.12	2.5.1	Steering of Roaming / Rejected network not stored on Preferred PLMN list ($EF_{PLMNsel}$)	PASS	
NI-6.13	2.5.2	Steering of Roaming / Rejected network stored on Preferred PLMN list ($EF_{PLMNsel}$)	PASS	
NI-7	**7**	**SIM Management**		
NI-7.1	7.2.2	PIN1 handling - 7.2.2 Change of PIN1, wrong repeating of new PIN1	PASS	

NI-7.2	7.2.4	PIN1 handling - 7.2.4 Change of PIN1, new PIN1 wrong (3 digits long)	PASS	
NI-7.3	7.2.6	PIN1 handling - 7.2.6 Change of PIN1, when deactivated	PASS	
NI-7.4	7.2.8	PIN1 handling - 7.2.8 Change of PIN1, when blocked	PASS	
NI-7.5	7.3.2	PIN2 handling - 7.3.2 Change of PIN2, wrong repeating of new PIN2	PASS	
NI-7.6	7.3.4	PIN2 handling - 7.3.4 Change of PIN2, new PIN2 wrong (3 digits long)	PASS	
NI-7.7	7.3.5	PIN2 handling - 7.3.5 Change of PIN2, when blocked	PASS	

7.6 For Terminal-to-Terminal dependent Field Trial Requirements (T2T)

Reference		Terminal-to-Terminal Configuration						Comments /Other Info
GCF No.	DG.11 No.	Description	T2T #1	T2T #2	T2T #3	T2T #4	T2T #5	
T2T-1	40.6	WB-AMR						
T2T-1.1.1	40.6.1.1	WB-AMR originated call to 2nd WB-AMR device	NS/M	NS/M	NS/M	NS/M	NS/M	To be executed in Transcoder Free Operation environment.
T2T-1.1.2	40.6.1.2	WB-AMR terminated call from 2nd WB-AMR device	NS/M	NS/M	NS/M	NS/M	NS/M	To be executed in Transcoder Free Operation

7.7 Configuration used for BSS/MSC network dependent Field Trial

BSS/MSC NETWORK CONFIGURATION (BM)						
BM	3GPP Rel. (e.g. R99)	GSM frequency band(s)	BSS Manufacturer	BSS SW Release	MSC Manufacturer	MSC SW Release
C1	REL-6	GSM 900/1800	Siemens	BR10	Siemens	UCR3.0 CS
C2	R4	GSM 900/1800	Nortel	V16	Nortel	NSS18
C3	R4	GSM 900/1800	Ericsson	R.7B	Ericsson	MSS5.1
C4	Rel 99	GSM 900/1800	Nokia Siemens	S11.5	Nokia Siemens	M13
C5	R99	GSM 900/1800	Ericsson	06B	Ericsson	R12.1

7.8 Configuration used for GPRS network dependent Field Trial

GPRS NETWORK CONFIGURATION T (GPRS)								
GPRS	3GPP Rel. (e.g. R99)	EGPRS Y/N	SGSN Manufacturer	SGSN SW Release	GGSN Manufacturer	GGSN SW Release	BSS Manufacturer	BSS SW Release
C1	REL-5	Y	Siemens	UCR 4.0P	Siemens	IPS-3.0	Siemens	BR10
C2	R4	Y	NSN	SG6 CD5	NSN	FISN3.2 PCD2.2	Nortel	14.3.1
C3	R99	Y	Ericsson	R2008B	Starent	R8.1	Ericsson	R.7B
C4	Rel 99	Y	Nokia Siemens	SG6	Nortel	V5	Nokia Siemens	S11.5
C5	R99	Y	Nokia	SG6 PCD5.3	Nokia	FlexiISN 3.1-PCD1 .5Build-6	Ericsson	06B

7.9 Configuration used for SMSC dependent Field Trials

SMSC CONFIGURATION TESTED AGAINST (SMS)		
SMS	**SMSC Manufacturer**	**SMSC SW Release**
1	Airwide	V9.4
2	Acision	5.2
3	Comverse	R6
N		

7.10 Configuration used for Terminal-to-Terminal dependent Field Trials

T2T	Manufacturer	Model	SW version (opt.)
T2T 1	Nokia	E75	
T2T 2	LG	GC900	
T2T 3	Motorola	Z8	
T2T 4	Samsung	I7500	
T2T 5	Sony Ericsson	W995	
T2T N			

INFRASTRUCTURE INFORMATION			
MSC / CORE		**BSS / RAN**	
Manufacturer	SW Version	Manufacturer	SW Version
Siemens	UCR3.0 CS	Siemens	UMR6.5

7.11 Configurations used for SIM/UICC dependent Field Trials

Please copy for the used SIMs/UICCs the table for “Basic information on SIM/UICC Card Combination(s)” from the relevant GCF FTQ Operators Declarations (GCF-OP, Annex B, Additional Information to Field Trial Qualified Declaration) into this section.

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
Card Type (SIM/UICC)	UICC (GUSIM 2004 platform)	UICC (GUSIM 2004 platform)	UICC (GUSIM 2004 platform)		
SIM application present (Yes/No)	Yes	Yes	Yes		
USIM application present (Yes/No)	Yes	Yes	Yes		
SIM/UICC Supplier*	Gemplus	G&D	Incard		
SIM/UICC Release Version*	USIM	USIM	USIM		
SIM/UICC Chipset Supplier*	Samsung S3CC9TW	Renesas AE46C1A	Samsung S3CC9TC		
SIM/UICC Chipset Release Version*	n.a.	n.a.	n.a.		
EF_{ECC} Field (Stores Emergency Numbers) available on SIM/USIM (Yes/No)	Yes	Yes	Yes		
If **yes** - please provide numbers stored on EF_{ECC}, enter NONE if EF_{ECC} is empty	NONE	NONE	NONE		
HPLMN Timer for EF_{HPPLMN} (in min)	30	30	30		
How to identify	ICCID	ICCID	ICCID		
Voltage	3/5V	3/5V	3/5V		
Prepay / Postpay	both	both	both		
SIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:					
ADN	200	200	200		
FDN	5	5	5		
SMS Storage	20	20	20		
GPRS LOCI Field present	Yes	Yes	Yes		
Number of $EF_{PLMNSel}$ entries supported	50	50	50		
WIM*	No	No	No		
STK Menus active	Yes	Yes	Yes		
OTA Update*	Yes	Yes	Yes		
Other Functions*	NDA	NDA	NDA		
USIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:					
ADN (Abbreviated dialling numbers)	200	200	200		
EXT1 (Extension1)	20	20	20		
AAS (Additional number Alpha String)	20	20	20		
GAS (Grouping information Alpha String)	10	10	10		
GRP (Grouping file)	200	200	200		
ANR (Additional Number)	20	20	20		
SNE (Second Name Entry)	20	20	20		

CCP1 (Capability Configuration Parameters 1)	3	3	3		
EMAIL (e-mail address)	20	20	20		
SMS Storage	20	20	20		
PSLOCI Field present	Yes	Yes	Yes		
Number of $EF_{PLMNwACT}$ entries supported	50	50	50		
Number of $EF_{OPLMMNwACT}$ entries supported	50	50	50		
WIM*	No	No	No		
USAT	No	No	No		
OTA Update*	Yes	Yes	Yes		
Other Functions	n/a	n/a	n/a		

Network 2

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
Card Type (SIM/UICC)	UICC	UICC			
SIM application present (Yes/No)	Yes	Yes			
USIM application present (Yes/No)	Yes	Yes			
SIM/UICC Supplier*	G&D/Gemalto	G&D/Gemalto			
SIM/UICC Release Version*	V 2.0 "VA"/"VZ"	V 3.0 "WA"/"WZ"			
SIM/UICC Chipset Supplier*	NDA	NDA			
SIM/UICC Chipset Release Version*	NDA	NDA			
EF_{ECC} Field (Stores Emergency Numbers) available on SIM/USIM (Yes/No)	Yes	Yes			
If **yes** – please provide numbers stored on EF_{ECC}, enter NONE if EF_{ECC} is empty	112	112			
HPLMN Timer for EF_{HPPLMN} (in min)	6	6			
How to identify	Release letters are printed on the card	Release letters are printed on the card			
Voltage	3V / 5V	3V / 5V			
Prepay / Postpay	Postpay	Postpay			
SIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:	14	14			
ADN	Yes	Yes			
FDN	30	30			
SMS Storage	20	20			
GPRS LOCI Field present	Yes	Yes			
Number of $EF_{PLMNSel}$ entries supported	32	32			
WIM*	No	No			
STK Menus active	No	No			
OTA Update*	Yes	Yes			
Other Functions*	Java	Java			

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
USIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:	14	14			
ADN (Abbreviated dialling numbers)	250	250			
EXT1 (Extension1)	3	3			
AAS (Additional number Alpha String)	No	No			
GAS (Grouping information Alpha String)	No	No			
GRP (Grouping file)	No	No			
ANR (Additional Number)	50	50			
SNE (Second Name Entry)	25	25			
CCP1 (Capability Configuration Parameters 1)	3	3			
EMAIL (e-mail address)	25	25			
SMS Storage	20	20			
PSLOCI Field present	Yes	Yes			
Number of $EF_{PLMNwACT}$ entries supported	N/A	N/A			
Number of $EF_{OPLMMNwACT}$ entries supported	48	48			
WIM*	No	No			
USAT	Yes	Yes			
OTA Update*	Yes	Yes			
Other Functions	Java	Java			

Network 3

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
Card Type (SIM/UICC)	SIM	SIM	SIM/UICC	SIM/UICC	SIM/UICC
SIM application present (Yes/No)					
USIM application present (Yes/No)	NO	NO	YES	YES	YES
SIM/UICC Supplier*	Incard	Gemplus	Incard	Gemplus	Axalto
SIM/UICC Release Version*					
SIM/UICC Chipset Supplier*	Samsung S3CC9NC	Infineon SLE66C6 81GPE	Samsung S3CJ9QD	Samsung S3CC9T WX15	Renesas HWD6525 7C
SIM/UICC Chipset Release Version*	n.a.	n.a.	n.a.	n.a.	n.a.
EF_{ECC} Field (Stores Emergency Numbers) available on SIM/USIM (Yes/No)	NO	No	Yes, 5	Yes, 5	Yes, 5

Description	SIM/UICC Card Configuration				
	S1	**S2**	**S3**	**S4**	**S5**
If **yes** – please provide numbers stored on EF_{ECC}, enter NONE if EF_{ECC} is empty	n.a.	n.a.	None	None	None
HPLMN Timer for EFhpplmn (in min)	30	30	30	30	30
How to identify	NDA	NDA	NDA	NDA	NDA
Voltage	3/5	3/5	3/5	3/5	3/5
Prepay / Postpay	Postpaid/Prepaid	Postpaid/Prepaid	Postpaid/ Prepaid	Postpaid/ Prepaid	Postpaid/ Prepaid
SIM application (if present)					
ADN	250	250	500	500	500
FDN	40	40	40	40	40
SMS Storage	30	30	50	50	50
GPRS LOCI Field present	Yes	Yes	Yes	Yes	Yes
WIM*	No	No	No	No	No
STK Menus active	Yes	Yes	Yes	Yes	Yes
OTA Update*	Yes	Yes	Yes	Yes	Yes
Other Functions*	NDA	NDA	NDA	NDA	NDA
USIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:	N.A.	N.A.	21	21	21
– ADN (Abbreviated dialling numbers)	N.A.	N.A.	500	500	500
– EXT1 (Extension1)	N.A.	N.A.	Yes	Yes	Yes
– AAS (Additional number Alpha String)	N.A.	N.A.	Yes	Yes	Yes
– GAS (Grouping information Alpha String)	N.A.	N.A.	Yes	Yes	Yes
– GRP (Grouping file)	N.A.	N.A.	5	5	5
– ANR (Additional Number)	N.A.	N.A.	250	250	250
– SNE (Second Name Entry)	N.A.	N.A.	50	50	50
– CCP1 (Capability Configuration Parameters 1)	N.A.	N.A.	Yes	Yes	Yes
– EMAIL (e-mail address)	N.A.	N.A.	250	250	250
SMS Storage	-	-	-	-	-
PSLOCI Field present	No	NO	Yes	Yes	Yes
WIM*	No	No	No	No	No

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
USAT	N.A.	N.A.	Yes	Yes	Yes
OTA Update*	N.A.	N.A.	Yes	Yes	Yes
Other Functions	NDA	NDA	NDA	NDA	NDA

Network 4

Description	SIM/UICC Card Configuration				
	S1	**S2**	**S3**	**S4**	**S5**
Card Type (SIM/UICC)	SIM	SIM	SIM	SIM	UICC
SIM application present (Yes/No)	Yes	Yes	Yes	Yes	Yes
USIM application present (Yes/No)	No	No	No	No	Yes
SIM/UICC Supplier*	G&D	Gemalto	SanDisk	Oberthur	G&D Gemalto
SIM/UICC Release Version*	3GPP Rel-4	3GPP Rel-4	3GPP Rel-4	3GPP Rel-4	3GPP Rel-5
SIM/UICC Chipset Supplier*	Samsung	Atmel Infineon Samsung	Renesas	Infineon	Renesas Samsung
SIM/UICC Chipset Release Version*	S3CC9NC	AT90SC25672RT 66C644P S3CC9NC	AE4602	66C644P	AE57CA S3CC9TW
EF_{ECC} Field (Stores Emergency Numbers) available on SIM/USIM (Yes/No)	No	No	No	No	Yes
HPLMN Timer for EF_{HPPLMN} (in min)	30	30	30	30	30
How to identify	ICCID*	ICCID*	ICCID*	ICCID*	ICCID*
Voltage	3/5V	3/5V	3/5V	3/5V	3/5V
Prepay / Postpay	Both	Both	Both	Both	Both
SIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:					
ADN	250	250	250	250	250
FDN	20	20	20	20	20
SMS Storage	20	20	20	20	20
GPRS LOCI Field present	Yes	Yes	Yes	Yes	Yes
Number of $EF_{PLMNSel}$ entries supported	50	50	50	50	100
WIM*	No	No	No	No	No
STK Menus active	Yes	Yes	Yes	Yes	Yes
OTA Update*	Yes	Yes	Yes	Yes	Yes
Other Functions*					
USIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:					22
ADN (Abbreviated dialling numbers)					2 files, 400 records
EXT1 (Extension1)					6 records
AAS (Additional number Alpha String)					

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
GAS (Grouping information Alpha String)					
GRP (Grouping file)					
ANR (Additional Number)					
SNE (Second Name Entry)					
CCP1 (Capability Configuration Parameters 1)					
EMAIL (e-mail address)					
SMS Storage					
PSLOCI Field present					
Number of $EF_{PLMNwACT}$ entries supported					
Number of $EF_{OPLMMNwACT}$ entries supported					
WIM*					
USAT					
OTA Update*					
Other Functions					

Network 5

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
Card Type (SIM/UICC)	UICC	UICC	UICC	UICC	
SIM application present (Yes/No)	Yes	Yes	Yes	Yes	
USIM application present (Yes/No)	Yes	Yes	Yes	Yes	
SIM/UICC Supplier*	Sandisk	Gemalto	G&D	Oberthur	
SIM/UICC Release Version*	R 99 and R4	R 99 and R4	R 99 and R4	R 99 and R4	
SIM/UICC Chipset Supplier*	Multisourcing	Multisourcing	Multisourcing	Multisourcing	
SIM/UICC Chipset Release Version*	Multisourcing	Multisourcing	Multisourcing	Multisourcing	
EF_{ECC} Field (Stores Emergency Numbers) available on SIM/USIM (Yes/No)	Yes	Yes	Yes	Yes	
If **yes** – please provide numbers stored on EF_{ECC}, enter NONE if EF_{ECC} is empty	112	112	112	112	

Description	SIM/UICC Card Configuration				
	S1	**S2**	**S3**	**S4**	**S5**
HPLMN Timer for EFhpplmn (in min)	30 min.	30 min.	30 min.	30 min.	
How to identify	ICC_ID **Sandisk**	ICC_ID **Gemalto**	ICC_ID **G&D**	ICC_ID **Oberthur**	
Voltage	3 and 1.8 V	3 and 1.8 V	3 and 1.8 V	3 and 1.8 V	
Prepay / Postpay	Yes	Yes	Yes	Yes	
SIM application (if present)					
ADN	250	250	250	250	
FDN	50	50	50	50	
SMS Storage	50	50	50	50	
GPRS LOCI Field present	Yes (all GPRS fields)	Yes (all GPRS fields)	Yes (all GPRS fields)	Yes (all GPRS fields)	
WIM*	No	No	No	No	
STK Menus active	Yes	Yes	Yes	Yes	
OTA Update*	Yes	Yes	Yes	Yes	
Other Functions*	Clock stop mode allowed (No Preferred Level)	Clock stop mode allowed (No Preferred Level)	Clock stop mode allowed (No Preferred Level)	Clock stop mode allowed (No Preferred Level)	
USIM application (if present)					
Number of files under $DF_{PHONEBOOK}$:					
– ADN (Abbreviated dialling numbers)	250	250	250	250	
– EXT1 (Extension1)	5	5	5	5	
– AAS (Additional number Alpha String)	4	4	4	4	
– GAS (Grouping information Alpha String)	4	4	4	4	
– GRP (Grouping file)	250	250	250	250	
– ANR (Additional Number)	50	50	50	50	
– SNE (Second Name Entry)	50	50	50	50	
– CCP1 (Capability Configuration Parameters 1)	5	5	5	5	
– EMAIL (e-mail address)	50	50	50	50	

Description	SIM/UICC Card Configuration				
	S1	S2	S3	S4	S5
SMS Storage	50	50	50	50	
PSLOCI Field present	Yes	Yes	Yes	Yes	
WIM*	No	No	No	No	
USAT	Yes	Yes	Yes	Yes	
OTA Update*	Yes	Yes	Yes	Yes	
Other Functions	FDN, SDN,…	FDN, SDN,…	FDN, SDN,…	FDN, SDN,…	