



**EN 301 511 V9.0.2 (2003-3)**  
**Global System for Mobile Communications(GSM);**  
**Harmonized EN for mobile stations in the GSM 900 and GSM**  
**1800 bands covering essential requirements of article 3.2 of**  
**the R&TTE directive (1999/5/EC)**

**Report No.: 06-04-CAT-037**

Client: Systems & Technology Corp.  
Product: IntelliTrac GPS Tracking  
System Under Test (SUT): X1  
Applicant: Systems & Technology Corp.  
Manufacturer: Shuttle Inc.  
Date test item received: 2006/04/26  
Date test campaign completed: 2006/05/03  
Date of issue: 2006/05/04

*Total number of pages of this test report: 45 pages*

**The test results rate only to the item tested. The report shall not be reproduced, except in full, without the written approval of test laboratory.**

Tested by	Checked by	Approved by
		
Chenz Ker	David Song	David Song

**Electronics Testing Center ,Taiwan**

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**REPORT ON**

GSM Phase 2 Limited Conformance Testing of a  
Systems & Technology Corp. IntelliTrac GPS Tracking  
X1

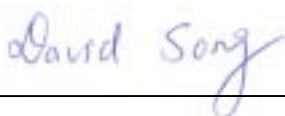
Report No: 06-04-CAT-037

4<sup>th</sup> May 2006

**PREPARED FOR:**

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Telecommunications Manager

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*Note: The test results reported herein relate only to the item tested as identified above and on the Status Page.*

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## **EXECUTIVE SUMMARY**

GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp.  
IntelliTrac GPS Tracking X1

**Project Manager : David Song**

## **1.1 Statement from Systems & Technology Corp.**

The SIMCOM SIM300 module was previously tested at Morlab as detailed report numbers No. SH\_SIMCO\_0503\_G\_a and No. SH\_SIMCO\_0503\_G\_b.

The IntelliTrac GPS Tracking X1 used the module SIMCOM SIM300 module, and re-tested radiated emission items.

The IntelliTrac X1 operating voltage is from DC8V to DC30V and through a step down switching regulator to provide a constant DC4.0V voltage for the SIMCOM SIM300 module.

END

## 1.2 STATUS

1.2.1	MANUFACTURING DESCRIPTION	GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp. IntelliTrac GPS Tracking X1
1.2.2	STATUS OF TEST	Limited Conformance Testing.
1.2.3	APPLICANT	Systems & Technology Corp.
1.2.4	POWER CLASS	Class 4 (GSM 900) Class 1 (GSM 1800)
1.2.5	MANUFACTURER	Shuttle Inc.
1.2.6	TYPE OR MODEL NUMBER	X1
1.2.7	HARDWARE VERSION	Rev.D
1.2.8	SOFTWARE VERSION	V1.041
1.2.9	TEST SPECIFICATIONS	3GPP TS 51.010-1 (V6.2.1)
1.2.10	TEST REFERENCES	GCF CC V3.21.1 ; EN 301511
1.2.11	Electronics Testing Center ,Taiwan REGISTRATION NUMBER	06-04-CAT-037
1.2.12	RECEIPT OF TEST SAMPLES	26 <sup>th</sup> April 2006
1.2.13	START OF TEST	26 <sup>th</sup> April 2006
1.2.14	FINISH OF TEST	3 <sup>rd</sup> May 2006

### 1.3 TEST AND ASSESSMENT SCHEDULE

Date: 26<sup>th</sup> April 2006

Electronics Testing Center ,Taiwan  
Reference No: 06-04-CAT-037  
Issue No: 1  
Type or Model Number: X1  
Description: IntelliTrac GPS Tracking  
Applicant: Systems & Technology Corp.  
Prepared by: Pachinko Wu  
Approved by: David Song

#### TEST SPECIFICATIONS

The sample submitted will be tested for compliance to:

3GPP TS51.010-1 (V6.2.1)

in accordance with:

GSM Certification Forum Certification Criteria Version 3.21.1 (31<sup>st</sup> January 2006).

#### TEST REQUIREMENTS

The Limited Conformance testing of the Systems & Technology Corp. IntelliTrac GPS Tracking X1. This Limited Conformance Testing requires that the following selected test cases from 3GPP TS 51.010-1(as specified by the customer) should be performed.  
GSM900/DCS1800 Test Table

Item of Test Specification	Test Description	Test Conditions	Result	
			GSM900	DCS1800
12.2.1	Radiated spurious emissions - MS allocated a channel	NTNV	Pass	Pass
12.2.2	Radiated spurious emissions - MS in idle mode	NTNV	Pass	Pass

x No test

END OF SCHEDULE.

## 1.4 **SUMMARY**

1.4.1 The device Systems & Technology Corp. submitted for Limited Conformance testing is a Phase 2 IntelliTrac GPS Tracking called the X1. The X1 is designed to operate on both the GSM 900 cellular network within both the primary and extended bands using both full and half rate speech channels and also the GSM 1800 cellular network using both full and half rate speech channels.

1.4.2 The following test samples were submitted for Limited Conformance testing:

<b>Sample Reference</b>	<b>Description</b>	<b>Submission Date</b>	<b>Electronics Testing Center ,Taiwan Registration Number</b>
1	X1 Test Sample	26/04/06	06-04-CAT-037

1.4.3 Testing was performed in accordance with the Test and Assessment Schedule (TAS) of Section 1.3, page 7.

1.4.4 Testing was performed exclusively by Electronics Testing Center, Taiwan

1.4.5 The test references used in this report are the test clause numbers from 3GPP TS 51.010-1.

1.4.6 Upon completion of testing, all test results were found to be compliant.



## 1.5 **MODIFICATION RECORD**

### 1.5.1 SOFTWARE MODIFICATIONS

No Software Modifications were made to any of the submitted samples during testing.

1.5.2 HARDWARE MODIFICATIONS

No Hardware Modifications were made to any of the submitted samples during testing.

## **1.6**      **REMARKS AND COMMENTS**

### 1.6.1      Nature of Limited Conformance Testing.

The purpose of Limited Conformance Testing is to increase the probability that different implementations can interwork. However, the complexity of the protocols makes exhaustive testing impractical on both technical and economic grounds. Furthermore, there is no guarantee that a Mobile Station, which has passed all relevant tests, conforms to a specification. Neither is there any guarantee that such a Mobile Station will interwork with a GSM system network. Rather, the passing of tests gives confidence that the Mobile Station has the stated capabilities and that its behaviour conforms consistently in representative instances of communication.

## **TEST DETAILS**

GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp.  
IntelliTrac GPS Tracking X1

**Executive Engineers: Chenz Ker  
Albert Hsieh  
Alex Chen**

## 2.1 TEST EQUIPMENT

2.1.1 The following test equipment was used at Electronics Testing Center ,Taiwan

Instrument Description	Manufacturer	Model Type	Inventory No.
TS8916B GSM System Simulator	Rohde and Schwarz	371.8013	4160
RAMS GSM/GPRS System Simulator	Anite	RAMS	023
SAT (Agilent Hardware 6 Cells) GSM/GPRS System Simulator	Anite	SAT	N/A
ORGA SIM-Simulator	ORGA		SIM328099B05
SIM-Simulator IT3	ORGA	IT3	B2004-50096
EMC Analyzer	Agilent	E7405A	13059601-001
Audio Analyzer	Rohde and Schwarz	UPL 16	4160
Universal Radio Communication Tester	Rohde and Schwarz	CMU200	13059401-001
Mouth Simulator	B & K	4227	03988
Ear Simulator Microphone	B & K	Type 1	03988
Acoustical Calibrator	B & K	4231	13041801-001
TEM&HUMIDITY Recoder	HAENNI	KRK501	13491019-001
Temp.& Humid. Chamber	ESEPC	SH240	13490520-001
Power Amplifier	Mini-Circuits	ZHL-42W	13040712-002
Power Amplifier	Mini-Circuits	ZVE-8G	13040712-001
Tunable Notch Filter	LORCH Microwave	3NF-800/1000-N	13056615-002
Tunable Notch Filter	LORCH Microwave	3NF-1700/2000-N	13056615-001
Horn Antenna	EMCO	3115	13059204-001
Horn Antenna	EMCO	3115	13059204-002
Bilog Antenna	Schaffner	CBL6111C	N/A
Power Supply Unit	HEWLETT PACKARD	E3612A	43032602-001
Power Supply Unit	GW instek	GPS 3030DD	N/A
Power Supply Unit	GW instek	GPS 3030DD	N/A
Anechoic Chamber	TDK Corporation	C00 #2	N/A
High Pass Filter	WAINWRIGHT	WHTS 2500-6EE	N/A
High Pass Filter	WAINWRIGHT	WHTS 1500-6EE	N/A
Vibration Desk	Vibration Engineering Services Ltd.	VP30	N/A

## **2.2 TEST SOFTWARE**

2.2.1 The following software was used to control the Rohde & Schwarz TS8916B System Simulator unless otherwise specified in the applicable Recommendation for Accredited Testing (RAT) of GCF TP7.

Rohde and Schwarz TS8916B software configuration 1.07 comprising :

D02P2P:	version 1.16
CR02PH2:	version 1.45
System Software TS8916B:	version 2.07

The individual test case package versions used during testing were in accordance with the version numbers as specified in GCF TP7 and relevant GCF Change request documents.

2.2.2 ORGA IT3 SIM Simulator  
Hardware version: IT3 V1.0  
Software version: Test Platform R3.41; TS 51010-1(digital) R3.41; TS51010-1(analog) R3.41

2.2.3 Anite RAMS software: V12.0.3

2.2.4 Anite SAT (Agilent Hardware 6 cells)  
Software version: Stand Alone Tester configuration: 18.00/19.00  
GPRS Test Cases: V1.301/V1.31; V2.301/V2.31; V3.301/V3.31; V4.301/V4.31  
EGPRS Test Case: VE1.09/ VE1.091; VE2.09/ VE2.091; VE3.09/ VE3.091

## **2.3 TEST CONDITIONS**

2.3.1 All measurements were taken under conditions of temperature and humidity that were within the limits specified in 3GPP TS 51.010-1 (version 6.2.1), Annex A.1.2

2.3.2 The test power source voltages used (as declared by the manufacturer) were:

Nominal	: 4.0 VDC ( For SIMCOM SIM300 module)
High Extreme	: 4.0 VDC ( For SIMCOM SIM300 module)
Low Extreme	: 4.0 VDC ( For SIMCOM SIM300 module)

P.S. : The IntelliTrac X1 operating voltage is from DC8V to DC30V and through a step down switching regulator to provide a constant DC4.0V voltage for the SIMCOM SIM300 module.

2.3.3 Where parametric measurements were taken under extremes of temperature, the MS was allowed to achieve thermal balance over a period of one hour prior to testing. The extreme ambient temperatures used for this handheld product were in accordance with those described in 3GPP TS 51.010-1 (version 6.2.1), table A1.2

## **2.4 MEASUREMENT UNCERTAINTY**

2.4.1 All results contained in this report are within the measurement uncertainty specified in Annex A5.3 of 3GPP TS51.010-1 (V6.2.1).

GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp.  
IntelliTrac GPS Tracking X1

SECTION 2.5  
TEST RESULTS SUMMARY

## **2.5**      **TEST RESULTS SUMMARY**

2.5.1      A summary of all test results is presented in tabular format in the files 'Test-Items.doc' on the accompanying CD-ROM entitled 'Report Number 06-04-CAT-037' GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp. Incorporated IntelliTrac GPS Tracking X1

The GSM 11.10 results table lists each test by 3GPP TS 51.010-1 (V6.2.1) test reference number and contains the following columns:

the test case category from GCF CC V3.21.1 and;

a brief test description and the test result (a pass/fail verdict, the date on which the test was performed, the sample number used for the test and the filename of the test result stored on the accompanying CD-ROM).

2.5.2      No test results are included in this report.



GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp.  
IntelliTrac GPS Tracking X1

SECTION 2.6

TEST SAMPLE PHOTOGRAPHS



Figure One : External front view of submitted test sample.



Figure Two : External rear view of submitted test sample



Figure Three : Internal front view of submitted test sample.

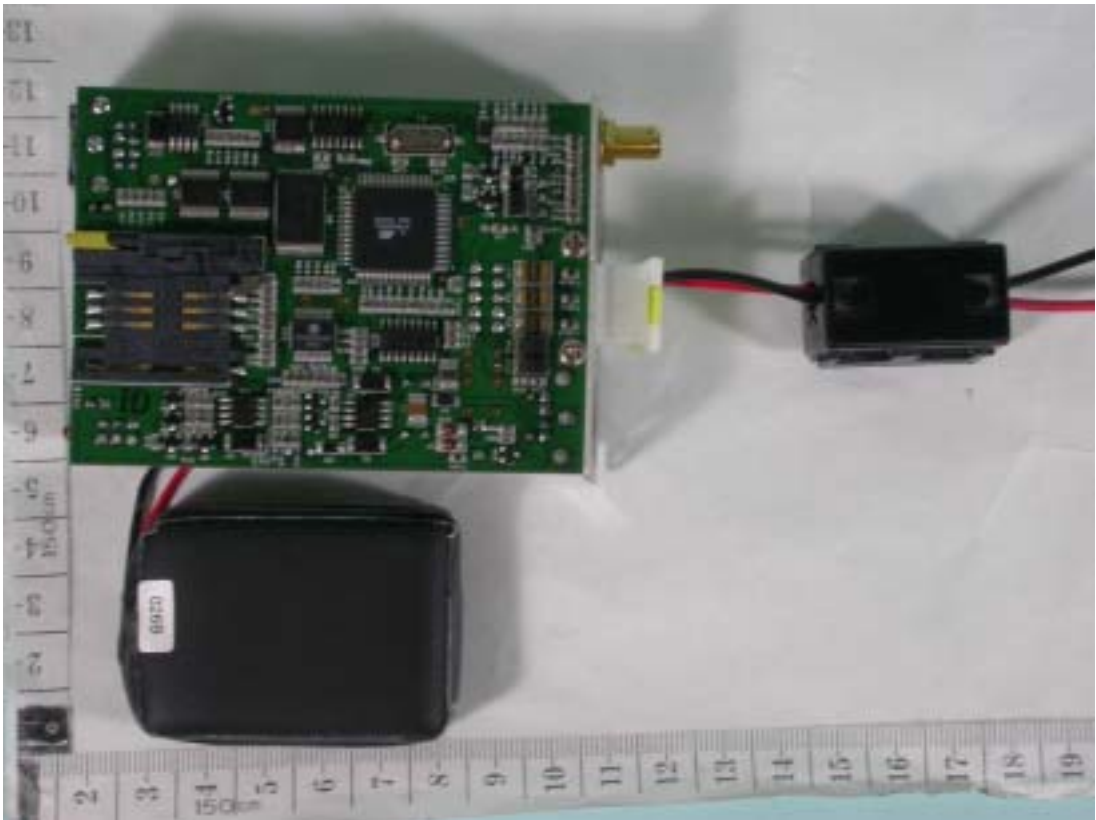


Figure Four : Internal rear view of submitted test sample.

GSM Phase 2 Limited Conformance Testing of a Systems & Technology Corp.  
IntelliTrac GPS Tracking X1

SECTION 2.7  
STATEMENT OF MOBILE FEATURES  
(Pages 21 - 44)

## 2.7 STATEMENT OF MOBILE FEATURES

**Table A.1: Types of Mobile Stations**

Item	Type of Mobile Station	Ref.	Release	Status	Support	Mnemonic
1	Standard GSM Band (P-GSM)	3GPP TS 05.05, 2 3GPP TS 45.005, 2	Phase 2	O.101	yes	TSPC_Type_GSM_P_Band
2	Extended GSM Band (E-GSM), (including standard Band)	3GPP TS 05.05, 2 3GPP TS 45.005, 2	Phase 2	O.101	yes	TSPC_Type_GSM_E_Band
3	R-GSM Band (including standard and E-GSM Band)	3GPP TS 05.05,2 3GPP TS 45.005, 2	R96	O.101	no	TSPC_Type_GSM_R_Band
4	DCS 1800 band	3GPP TS 05.05 3GPP TS 45.005, 2	Phase 2	O.101	yes	TSPC_Type_DCS_Band
5	Multiple-band, not simultaneously	3GPP TS 05.05 3GPP TS 45.005, 2	Phase 2	O.102	yes	TSPC_Type_MB_NonSimul
6	Multiple-band, simultaneously	3GPP TS 05.05 3GPP TS 45.005, 2	Phase 2	O.102	yes	TSPC_Type_MB_Simul
7	Small Mobile Station	3GPP TS 05.05, 1.1 3GPP TS 45.005, 1.1	Phase 2	O	yes	TSPC_Type_SmallMS
8	GSM Power Class 2	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	C101	no	TSPC_Type_GSM_Class2
9	GSM Power Class 3	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	C101	no	TSPC_Type_GSM_Class3
10	GSM Power Class 4	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	O	yes	TSPC_Type_GSM_Class4
11	GSM Power Class 5	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	O	no	TSPC_Type_GSM_Class5
12	DCS Power Class 1	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	O	yes	TSPC_Type_DCS_Class1
13	DCS Power Class 2	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	O	no	TSPC_Type_DCS_Class2
14	DCS Power Class 3	3GPP TS 05.05,4.1.2 3GPP TS 45.005, 4.1.1	Phase 2	O	no	TSPC_Type_DCS_Class3
15	HSCSD Multislot MS	3GPP TS 05.02,B.1 3GPP TS 45.002, B.1	R96	C102	no	TSPC_Type_HSCSD_Multislot
16	GSM 450 band	3GPP TS 05.05, 2 3GPP TS 45.005, 2	R99	O.101	no	TSPC_Type_GSM_450_Band
17	GSM 480 band	3GPP TS 05.05, 2 3GPP TS 45.005, 2	R99	O.101	no	TSPC_Type_GSM_480_Band
18	PCS 1900 band	3GPP TS 05.05, 2 3GPP TS 45.005, 2	R98	O.101	yes	TSPC_Type_PCS_Band
19	PCS Power Class 1	3GPP TS 05.05, 4 3GPP TS 45.005, 4	R98	O	yes	TSPC_Type_PCS_Class1
20	PCS Power Class 2	3GPP TS 05.05, 4 3GPP TS 45.005, 4	R98	O	no	TSPC_Type_PCS_Class2
21	PCS Power Class 3	3GPP TS 05.05, 4 3GPP TS 45.005, 4	R98	O	no	TSPC_Type_PCS_Class3
22	Multislot Class1	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class1
23	Multislot Class2	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class2
24	Multislot Class3	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class3
25	Multislot Class4	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class4
26	Multislot Class5	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class5
27	Multislot Class6	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class6
28	Multislot Class7	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class7
29	Multislot Class8	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class8
30	Multislot Class9	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class9
31	Multislot Class10	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	yes	TSPC_Type_Multislot_Class10
32	Multislot Class11	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class11
33	Multislot Class12	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class12

Item	Type of Mobile Station	Ref.	Release	Status	Support	Mnemonic
34	Multislot Class13	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class13
35	Multislot Class14	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class14
36	Multislot Class15	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class15
37	Multislot Class16	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class16
38	Multislot Class17	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class17
39	Multislot Class18	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R96	O	no	TSPC_Type_Multislot_Class18
40	Multislot Class19	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class19
41	Multislot Class20	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class20
42	Multislot Class21	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class21
43	Multislot Class22	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class22
44	Multislot Class23	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class23
45	Multislot Class24	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class24
46	Multislot Class25	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class25
47	Multislot Class26	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class26
48	Multislot Class27	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class27
49	Multislot Class28	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class28
50	Multislot Class29	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_Multislot_Class29
51	GPRS Multislot operation	3GPP TS 02.60 3GPP TS 22.060	R97	C103	yes	TSPC_Type_GPRS_Multislot_operation
52	EGPRS capable of 8PSK in Uplink, of all Multislot classes	3GPP TS 04.60 3GPP TS 44.060	R99	O	no	TSPC_Type_EGPRS_8PSK_u plink
53	GSM 700 band	3GPP TS 45.005, 2	Release 4	O.101	no	TSPC_Type_GSM_700_Band
54	GSM 750 band	3GPP TS 45.005, 2	Release 4	O.101	no	TSPC_Type_GSM_750_Band
55	GSM 850 band	3GPP TS 05.05, 2 3GPP TS 45.005, 2	R99	O.101	no	TSPC_Type_GSM_850_Band
56	Support of UTRAN Radio Access Technology	3GPP TS 25.301	R99	O	no	TSPC_Type_UTRAN
57	Support of GPRS Multislot class on the uplink	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	C105	yes	TSPC_Type_GPRS_Multislot_u plink
58	Support of COMPACT	3GPP TS 05.08 3GPP TS 45.008	R99	O	no	TSPC_COMPACT
59	DTM Multislot Class 1	3GPP TS 05.02, 6.4 3GPP TS 45.002, 6.4	R99	C106	no	TSPC_DTM_Multislot_Class_1
60	DTM Multislot Class 5	3GPP TS 05.02, 6.4 3GPP TS 45.002, 6.4	R99	C107	no	TSPC_DTM_Multislot_Class_5
61	DTM Multislot Class 9	3GPP TS 05.02, 6.4 3GPP TS 45.002, 6.4	R99	C108	no	TSPC_DTM_Multislot_Class_9
62	Support of dynamic allocation in DTM	3GPP TS 24.008 10.5.1.7	R99	C108		TSPC_DTM_Dynamic_Allocati on
63	Support of UTRAN FDD	3GPP TS 25.301	R99	O	no	TSPC_Type_UTRAN_FDD
64	Support of UTRAN TDD	3GPP TS 25.30	R99	O	no	TSPC_Type_UTRAN_TDD
65	Support of Conventional GPS	3GPP 03.71	R98	O	no	TSPC_Conv-GPS
66	EGPRS Multislot operation	3GPP TS 02.60 3GPP TS 22.060	R99	C104	no	TSPC_Type_EGPRS_Multislot _operation
67	GPRS Multislot Class1	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot _Class1
68	GPRS Multislot Class2	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot _Class2
69	GPRS Multislot Class3	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot _Class3
70	GPRS Multislot Class4	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot _Class4

Item	Type of Mobile Station	Ref.	Release	Status	Support	Mnemonic
71	GPRS Multislot Class5	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class5
72	GPRS Multislot Class6	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class6
73	GPRS Multislot Class7	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class7
74	GPRS Multislot Class8	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class8
75	GPRS Multislot Class9	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class9
76	GPRS Multislot Class10	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	yes	TSPC_Type_GPRS_Multislot_Class10
77	GPRS Multislot Class11	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class11
78	GPRS Multislot Class12	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class12
79	GPRS Multislot Class13	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class13
80	GPRS Multislot Class14	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class14
81	GPRS Multislot Class15	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class15
82	GPRS Multislot Class16	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class16
83	GPRS Multislot Class17	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class17
84	GPRS Multislot Class18	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class18
85	GPRS Multislot Class19	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class19
86	GPRS Multislot Class20	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class20
87	GPRS Multislot Class21	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class21
88	GPRS Multislot Class22	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class22
89	GPRS Multislot Class23	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class23
90	GPRS Multislot Class24	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class24
91	GPRS Multislot Class25	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class25
92	GPRS Multislot Class26	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class26
93	GPRS Multislot Class27	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class27
94	GPRS Multislot Class28	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class28
95	GPRS Multislot Class29	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R97	O	no	TSPC_Type_GPRS_Multislot_Class29
96	EGPRS Multislot Class1	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class1
97	EGPRS Multislot Class2	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class2
98	EGPRS Multislot Class3	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class3
99	EGPRS Multislot Class4	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class4
100	EGPRS Multislot Class5	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class5
101	EGPRS Multislot Class6	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class6
102	EGPRS Multislot Class7	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class7
103	EGPRS Multislot Class8	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class8
104	EGPRS Multislot Class9	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class9
105	EGPRS Multislot Class10	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class10

Item	Type of Mobile Station	Ref.	Release	Status	Support	Mnemonic
106	EGPRS Multislot Class11	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class11
107	EGPRS Multislot Class12	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class12
108	EGPRS Multislot Class13	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class13
109	EGPRS Multislot Class14	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class14
110	EGPRS Multislot Class15	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class15
111	EGPRS Multislot Class16	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class16
112	EGPRS Multislot Class17	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class17
113	EGPRS Multislot Class18	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class18
114	EGPRS Multislot Class19	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class19
115	EGPRS Multislot Class20	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class20
116	EGPRS Multislot Class21	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class21
117	EGPRS Multislot Class22	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class22
118	EGPRS Multislot Class23	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class23
119	EGPRS Multislot Class24	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class24
120	EGPRS Multislot Class25	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class25
121	EGPRS Multislot Class26	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class26
122	EGPRS Multislot Class27	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class27
123	EGPRS Multislot Class28	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class28
124	EGPRS Multislot Class29	3GPP TS 05.02, B.1 3GPP TS 45.002, B.1	R99	O	no	TSPC_Type_EGPRS_Multislot_Class29
125	EGPRS Multislot Class30	3GPP TS 05.05,4.1.1 3GPP TS 45.005, 4.1.1	R99	C101	no	TSPC_Type_GSM_850_Class 2
126	EGPRS Multislot Class31	3GPP TS 05.05,4.1.1 3GPP TS 45.005, 4.1.1	R99	C101	no	TSPC_Type_GSM_850_Class 3
127	EGPRS Multislot Class32	3GPP TS 05.05,4.1.1 3GPP TS 45.005, 4.1.1	R99	O	no	TSPC_Type_GSM_850_Class 4
128	EGPRS Multislot Class33	3GPP TS 05.05,4.1.1 3GPP TS 45.005, 4.1.1	R99	O	no	TSPC_Type_GSM_850_Class 5

**Table A.1b: MS Feature Release Supported**

Item	MS Feature Release Supported	Reference	Release	Status	Support	Mnemonic	Value	
							Allowed	Supported
1	Release of GPRS supported.	3GPP TS 02.60 3GPP TS 22.060	R97	C1b01	yes	TSPC_MS_GPRS_RELEASE	R97, R98, R99, Release 4, Release 5	
2	Release of AMR supported.	3GPP TS 05.09, 3.4	R98	C1b02	no	TSPC_MS_AMR_RELEASE	R98, R99, Release 4, Release 5	
3	Release of EGPRS supported.	3GPP TS 02.60 3GPP TS 22.060	R99	C1b03	no	TSPC_MS_EGPRS_RELEASE	R99, Release 4, Release 5	



**Table A.2: Mobile Station Features**

Item	Mobile Station Feature	Ref.	Release	Status	Support	Mnemonic
1	Display of Called Number.	3GPP TS 02.07 B.1.1	Phase 2	C202	yes	TSPC_Feat_DCN
2	Indication of Call Progress Signals.	3GPP TS 02.07 B.1.2	Phase 2	C204	yes	TSPC_Feat_CPSind
3	Country/PLMN Indication.	3GPP TS 02.07 B.1.3	Phase 2	C202	yes	TSPC_Feat_PLMNind
4	Country/PLMN Selection.	3GPP TS 02.07 B.1.4	Phase 2	M	yes	TSPC_Feat_PLMNsel
5	Keypad.	3GPP TS 02.07 B.1.5	Phase 2	O	yes	TSPC_Feat_Keypad
6	IMEI.	3GPP TS 02.07 B.1.6	Phase 2	M	yes	TSPC_Feat_IMEI
7	Short Message Overflow Indication.	3GPP TS 02.07 B.1.8	Phase 2	M	yes	TSPC_Feat_SMoverflow
8	DTE /DCE Interface.	3GPP TS 02.07 B.1.9	Phase 2	O	yes	TSPC_Feat_DTE_DCE
9	ISDN "S" Interface.	3GPP TS 02.07 B.1.10	Phase 2	O	yes	TSPC_Feat_Sinterface
10	International Access Function.	3GPP TS 02.07 B.1.11	Phase 2	O	yes	TSPC_Feat_IntAccess
11	Service Indicator.	3GPP TS 02.07 B.1.12	Phase 2	C203	yes	TSPC_Feat_ServInd
12	Autocalling restriction capabilities.	3GPP TS 02.07 annex A	Phase 2	C205	no	TSPC_Feat_AutocallRestrict
13	Dual Tone Multi Frequency function.	3GPP TS 02.07 B.1.15	Phase 2	C201	yes	TSPC_Feat_DTMF
14	Subscription Identity Management.	3GPP TS 02.07 B.1.16	Phase 2	M	yes	TSPC_Feat_SIM
15	On/Off switch.	3GPP TS 02.07 B.1.17	Phase 2	O	yes	TSPC_Feat_OnOff
16	Subaddress.	3GPP TS 02.07 B.1.18	Phase 2	O	yes	TSPC_Feat_Subaddress
17	Support of Encryption A5/1.	3GPP TS 02.07 B.1.19	Phase 2	M	yes	TSPC_Feat_A51
18	Support of Encryption A5/2.	3GPP TS 02.07 B.1.19	Phase 2	M	yes	TSPC_Feat_A52
19	Short Message Service Cell Broadcast DRX.	3GPP TS 02.07 B.1.20	Phase 2	O	yes	TSPC_Feat_SMS_CB_DRX
20	Abbreviated Dialling.	3GPP TS 02.07 B.3.1	Phase 2	O	yes	TSPC_Feat_AD
21	Fixed Number Dialling.	3GPP TS 02.07 B.3.2	Phase 2	O	yes	TSPC_Feat_FND
22	Barring of Outgoing Calls.	3GPP TS 02.07 B.3.3	Phase 2	O	yes	TSPC_Feat_BO
23	DTMF Control Digits Separator.	3GPP TS 02.07 B.3.4	Phase 2	O	yes	TSPC_Feat_DTMF_CDS
24	Selection of Directory No in Short Messages.	3GPP TS 02.07 B.3.5	Phase 2	O	yes	TSPC_Feat_SM_Dir
25	Last Numbers Dialed.	3GPP TS 02.07 B.3.6	Phase 2	O	yes	TSPC_Feat_LND
26	At least one autocalling feature.	3GPP TS 02.07 annex A	Phase 2	O	yes	TSPC_Feat_Autocall
27	Alphanumeric display.	3GPP TS 02.07 2	Phase 2	O	yes	TSPC_Feat_Alphanum_Display
28	Other means of display.	3GPP TS 02.07 2	Phase 2	O	yes	TSPC_Feat_Other_Means_of_Display
29	Speech indicator.	3GPP TS 02.07 2	Phase 2	O	yes	TSPC_Feat_Speech_Indicator
30	Support of the extended Short message cell broadcast channel	3GPP TS 02.07 B.1.23	R96	O	no	TSPC_Ext_SMcell_BC
31	Support of Additional Call Set-up MMI Procedures	3GPP TS 02.07 B.1.24	R96	O	yes	TSPC_AddCall_Su_MMi_Proc
32	Network Identity and Timezone	3GPP TS 02.07 B.1.25	R96	O	yes	TSPC_Feat_NID_Timezone
33	Ciphering Indicator	3GPP TS 02.07 B.1.22(B.1.2.26)	Phase 2 (R96)	C202	no	TSPC_Feat_Ciphering
34	Network's indication of alerting in the MS \$(NI Alert in MS)\$	3GPP TS 02.07 B.1.27	R96	O	yes	TSPC_Feat_NI_AlertinMS
35	ME-SIM lock	3GPP TS 02.07 B.3.7	R96	O	yes	TSPC_SIM_Lock
36	Service Dialling Numbers	3GPP TS 02.07 B.3.8	R96	O	yes	TSPC_Service_No
37	Extended timing advance	3GPP TS 05.10, 5.5	R99	C206	yes	TSPC_Feat_Ext_TA
38	Support of SoLSA	3GPP TS 02.43, 3GPP TS 22.043 B.1.27 3GPP TS 03.73 3GPP TS 23.073	R98	O	no	TSPC_SoLSA
39	Audible Indication of Service Tones	3GPP TS 02.07, B.1.27	R96	O	yes	TSPC_Feat_audible_tone
40	Autocalling_Cause 27 Implemented in Cat 3	3GPP TS 02.07 annex A	Phase 2	O	no	TSPC_Feat_Cause27Cat3
41	Support of GPRS	3GPP TS 02.60 3GPP TS 22.060	R97	O	yes	TSPC_GPRS
42	Support of EGPRS	3GPP TS 02.60 3GPP TS 22.060	R99	O	no	TSPC_EGPRS
43	Support of GPRS Encryption	3GPP TS 02.60 3GPP TS 22.060	R98	C207	yes	TSPC_GPRS_Encryp
44	Control of Supplementary Services	3GPP TS 02.07, 2	Phase 2	O	yes	TSPC_Control_SS
45	Short message	3GPP TS 02.07, 2	Phase 2	O	yes	TSPC_Supp_SM
46	Emergency calls capabilities	3GPP TS 02.07, B.1.14	Phase 2	C211	yes	TSPC_Emergency_call_cap

Item	Mobile Station Feature	Ref.	Release	Status	Support	Mnemonic
47	GPRS operation mode class A	3GPP TS 02.60, 5.4.5 3GPP TS 22.060, 5.4.5	R97	C209	no	TSPC_operation_mode_A
48	GPRS operation mode class B	3GPP TS 02.60, 5.4.5 3GPP TS 22.060, 5.4.5	R97	C209	yes	TSPC_operation_mode_B
49	GPRS operation mode class C	3GPP TS 02.60, 5.4.5 3GPP TS 22.060, 5.4.5	R97	C209	no	TSPC_operation_mode_C
50	MS supporting SMS over GPRS	3GPP TS 22.060, 5.4	R99	O	no	TSPC_SMS_over_GPRS
51	Void				no	
52	Support of GSM-CTS	3GPP TS 05.08 11 3GPP TS 45.008, 11	R98	O	no	TSPC_GSM_CTS
53	Support of ECSD	3GPP TS 05.08, B.6 3GPP TS 45.008, B.6	R99	O	no	TSPC_ECSD
54	GPRS test mode A	3GPP TS 04.14 5.4	R97	C208	yes	TSPC_GPRS_Testmode_A
55	GPRS test mode B	3GPP TS 04.14 5.4	R97	C208	yes	TSPC_GPRS_Testmode_B
56	EGPRS test mode	3GPP TS 04.14		C210	no	TSPC_EGPRS_Testmode
57	Support of MS-Assisted E-OTD	3GPP TS 03.71 7.6.1	R98	O	no	TSPC_EOTD_ASSIST
58	Non-zero value of Non_DRX_Timer	3GPP TS 04.60	R97	C208	no	TSPC_non_zero_Non_DRX_Timer
59	Support of MS-Based GPS	3GPP TS 03.71 7.6.1	R98	O	no	TSPC_A-GPS_Based
60	Support of MS-Assisted GPS	3GPP TS 03.71 7.6.1	R98	O	no	TSPC_A-GPS_Assist
61	Privacy Option Supported	3GPP TS 03.71 7.6.1	R98	O	no	TSPC_PRIVACY
62	Support of DTM	3GPP TS 24.008 10.5.1.7	R99	O	no	TSPC_DTM
63	Support MS Assisted EOTD Performance for GMSK	3GPP TS 05.05 Annex I	R99	O	no	TSPC_EOTD_ASSIST AND TSPC_PERF_GMSK
64	Support MS Assisted EOTD Performance for 8PSK	3GPP TS 05.05 Annex I	R99	O	no	TSPC_EOTD_ASSIST AND TSPC_PERF_8PSK
65	Support of EGPRS Packet Access enhancement	3GPP TS 04.18 3.5.2.1.2 3GPP TS 04.60 7.1.2.1	R99 only	O	no	TSPC_EGPRS_ENHANC
66	Support of Network Assisted Cell Change	3GPP TS 24.008 10.5.1.7, 10.5.5.12a	Rel-4	O	no	TSPC_NACC
67	Support of MT SMS over GPRS	3GPP TS 22.060, 5.4	R99	O	no	TSPC_MT_SMS_over_GPRS
68	Support of Extended Uplink TBF	3GPP TS 44.060, 9.3.1.3, 9.3.1b	Rel-4	O	no	Rel-4

**Table A.3: Teleservices**

Item	Teleservice	Ref.	Release	Status	Support	Mnemonic
1	Telephony.	3GPP TS 02.03 A.1.1 3GPP TS 22.003, A.1.1	Phase 2	O	yes	TSPC_Serv_TS11
2	Emergency Call.	3GPP TS 02.03 A.1.2 3GPP TS 22.003, A.1.2	Phase 2	C301	yes	TSPC_Serv_TS12
3	Short Message MT/PP.	3GPP TS 02.03 A.1.3.1 3GPP TS 22.003, A.1.3.1	Phase 2	O	yes	TSPC_Serv_TS21
4	Short Message MO/PP.	3GPP TS 02.03 A.1.3.2 3GPP TS 22.003, A.1.3.2	Phase 2	O	yes	TSPC_Serv_TS22
5	SMS Cell Broadcast.	3GPP TS 02.03 A.1.3.3 3GPP TS 22.003, A.1.3.3	Phase 2	O	yes	TSPC_Serv_TS23
6	Teleservice Alternate Speech and G3 fax.	3GPP TS 02.03 A.1.4 3GPP TS 22.003, A.1.4	Phase 2	O	yes	TSPC_Serv_TS61
7	Teleservice Automatic G3 fax.	3GPP TS 02.03 A.1.5 3GPP TS 22.003, A.1.5	Phase 2	O	yes	TSPC_Serv_TS62
8	Voice Group Call Service (VGCS)	3GPP TS 02.03 A.1.6 3GPP TS 22.003, A.1.6	R96	O	no	TSPC_Serv_TS91
9	Voice Broadcast Service (VBS)	3GPP TS 02.03 A.1.7 3GPP TS 22.003, A.1.7	R96	O	no	TSPC_Serv_TS92
10	SMS description	3GPP TS 02.03 A.1.3.4 3GPP TS 22.003, A.1.3.4	R96	O	no	TSPC_SMS_description

**Table A.4: Bearer Services**

Item	Bearer Service	Ref.	Release	Status	Support	Mnemonic
1	Data circuit duplex async. 300 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	yes	TSPC_Serv_BS21

Item	Bearer Service	Ref.	Release	Status	Support	Mnemonic
2	Data circuit duplex async. 1 200 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	yes	TSPC_Serv_BS22
3	Data circuit duplex async. 1 200/75 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS23
4	Data circuit duplex async. 2 400 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	yes	TSPC_Serv_BS24
5	Data circuit duplex async. 4 800 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	yes	TSPC_Serv_BS25
6	Data circuit duplex async. 9 600 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	yes	TSPC_Serv_BS26
7	Data circuit duplex sync. 1 200 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS31
8	Data circuit duplex sync. 2 400 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS32
9	Data circuit duplex sync. 4 800 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS33
10	Data circuit duplex sync. 9 600 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS34
11	PAD Access 300 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS41
12	PAD Access 1 200 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS42
13	PAD Access 1 200/75 bits/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS43
14	PAD Access 2 400 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS44
15	PAD Access 4 800 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS45
16	PAD Access 9 600 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS46
17	Packet Access 2 400 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS51
18	Packet Access 4 800 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS52
19	Packet Access 9 600 bit/s.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS53
20	Alternate Speech/Data.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS61
21	Speech Followed by Data.	3GPP TS 02.02 3 3GPP TS 22.002, 3	Phase 2	O	no	TSPC_Serv_BS81
22	GPRS	3GPP TS 02.02 3 3GPP TS 22.002, 3	R97	O	yes	TSPC_Serv_BS70

**Table A.5: Supplementary Services**

Prerequisite: A.25/29 -- TSPC\_AddInfo\_SS (3GPP TS 02.04 4, 3GPP TS 02.07 B.2.1, (3GPP TS 22.004 4)).

Item	Supplementary Service	Ref.	Release	Status	Support	Mnemonic
1	Calling Line Identification Presentation.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_CLIP
2	Calling Line Identification Restriction.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_CLIR
3	Connected Line Identification Presentation.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_COLP
4	Connected Line Identification Restriction.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_COLR
5	Call Forwarding Unconditional.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_CFU
6	Call Forwarding on Mobile Subscriber Busy.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_CFB
7	Call Forwarding on No Reply.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_CFNrY
8	Call Forwarding on Mobile Subscriber Not Reachable.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_CFNrC
9	Call Waiting.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_CW

Item	Supplementary Service	Ref.	Release	Status	Support	Mnemonic
10	Call Hold.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_HOLD
11	Multi Party Service.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_MPTY
12	Closed User Group.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_CUG
13	Advice of Charge (Information).	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_AoCI
14	Advice of Charge (Charging).	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_Serv_SS_AoCC
15	Barring of All Outgoing Calls.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_BAOC
16	Barring of Outgoing International Calls.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_BOIC
17	Barring of Outgoing International Calls except those directed to the Home PLMN Country.	3GPP TS 02.04 4, 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_BOICexHC
18	Barring of All Incoming Calls.	3GPP TS 02.04 4, 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_BAIC
19	Barring of Incoming Calls when Roaming Outside the Home PLMN Country.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	M	yes	TSPC_Serv_SS_BICRoam
20	Unstructured SS Data.	3GPP TS 02.30, 4.5.2.2, 3GPP TS 02.07 B.2.1	Phase 2	O	yes	TSPC_Serv_SS_unstruct
21	enhanced Multi-Level Precedence and Pre-emption service (eMLPP)	3GPP TS 02.04 4 3GPP TS 22.004, 4 3GPP TS 02.67, 3.1 3GPP TS 22.067, 43.1	R96	O	no	TSPC_Serv_SS_eMLPP
22	Call Deflection	3GPP TS 02.04 4 3GPP TS 22.004, 4 3GPP TS 02.72, 3.2 3GPP TS 22.072, 3.2	R96	O	no	TSPC_Serv_SS_CD
23	User-to-User signalling	3GPP TS 02.04 4 3GPP TS 22.004, 4 3GPP TS 02.87, 5.1 3GPP TS 22.087, 5.1	R96	O	yes	TSPC_Serv_SS_UUS
24	Explicit Call Transfer	3GPP TS 02.04 4 3GPP TS 22.004, 4 3GPP TS 02.91 3GPP TS 22.091,	R96	O	yes	TSPC_Serv_SS_ECT
25	Implicit UUS1	3GPP TS 02.87 5.1 3GPP TS 22.087, 5.1	R96	O	no	TSPC_Serv_SS_ImpUUS1
26	Sending of implicit UUS1 in the ALERTING message	3GPP TS 03.87 5.3.2 3GPP TS 23.087, 5.3.1	R98	O	no	TSPC_Serv_SS_Send_UUS1_ALERTING
27	Sending of implicit UUS1 in the CONNECT message	3GPP TS 03.87 5.3.2 3GPP TS 23.087, 5.3.2	R98	O	no	TSPC_Serv_SS_Send_UUS1_CONNECT
28	Follow Me	3GPP TS 02 94 3GPP TS 22.094,	R99	O	no	TSPC_Serv_SS_FollowMe
29	User-to-Dispatcher Information	3GPP TS 43.068, 3.1 3GPP TS 43.069, 3.1	Release 4	O	no	TSPC_Serv_UTDI
30	Compressed User-to-Dispatcher	3GPP TS 43.068 4.2.7 3GPP TS 43.069, 4.2.7	Release 4	O	no	TSPC_Serv_Compr_UTDI
31	Completion of Calls to Busy SS	3GPP TS 02.04 4 3GPP TS 22.004, 4	R97	O	no	TSPC_CCBS_SS
32	Completion of Calls to Busy Requests	3GPP TS 02.04 4 3GPP TS 22.004, 4	R97	O	no	TSPC_CCBS_Req
33	Support of Private Numbering Plan SS	3GPP TS 02.04 4 3GPP TS 22.004, 4	R97	O	no	TSPC_SPNP_SS
34	Support of Private Numbering Plan, Numbering Plans	3GPP TS 02.04 4 3GPP TS 22.004, 4	R97	O	no	TSPC_Num_plans
35	Name Identification SS	3GPP TS 02.04 4 3GPP TS 22.004, 4	R97	O	no	TSPC_CNAP

**Table A.6: Groups for possible bearer capabilities**

Item	Bearer Capability Group	Ref.	Release	Status	Support	Mnemonic
1	Bearer Service 21(20) .. 26, unrestricted digital information transfer capability.	3GPP TS 07.01 B.1.2.1 3GPP TS 27.001, B.1.2.1	Phase 2 (R96)	O	yes	TSPC_BS2x_UDI
2	Bearer Service 21(20) .. 26, 3.1 kHz audio ex-PLMN information transfer capability.	3GPP TS 07.01 B.1.2.2 3GPP TS 27.001, B.1.2.2	Phase 2 (R96)	O	yes	TSPC_BS2x_3.1kHz
3	Bearer Service 31(30) .. 34, unrestricted digital information transfer capability; Non-X.32 Cases (BS 31 .. BS 34).	3GPP TS 07.01 B.1.3.1.1 3GPP TS 27.001, B.1.3.1.1	Phase 2 (R96)	O	yes	TSPC_BS3x_UDI_nonX.32
4	Bearer Service 31(30) .. 34, unrestricted digital information transfer capability; X.32 Cases.	3GPP TS 07.01 B.1.3.1.2 3GPP TS 27.001, B.1.3.1.1	Phase 2 (R96)	O	no	TSPC_BS3x_UDI_X.32
5	Bearer Service 31(30) .. 34, 3.1 kHz audio ex-PLMN information transfer capability; Non-X.32 Cases.	3GPP TS 07.01 B.1.3.2.1 3GPP TS 27.001, B.1.3.2.1	Phase 2 (R96)	O	yes	TSPC_BS3x_3.1kHz_nonX.32
6	Bearer Service 31(30) .. 34, 3.1 kHz audio ex-PLMN information transfer capability; X.32 Cases.	3GPP TS 07.01 B.1.3.2.2 3GPP TS 27.001, B.1.3.2.2	Phase 2 (R96)	O	no	TSPC_BS3x_3.1kHz_X.32
7	Bearer Service 41(40)..46, PAD Access Asynchronous.	3GPP TS 07.01 B.1.4 3GPP TS 27.001, B.1.5	Phase 2 (R96)	O	no	TSPC_BS4x_PAD
8	Bearer Service 51(50)..53, Data Packet Duplex Synchronous.	3GPP TS 07.01 B.1.5 3GPP TS 27.001, B.1.5	Phase 2 (R96)	O	no	TSPC_BS5x_Packet
9	Bearer Service 61, Alternate Speech/Data, "Speech".	3GPP TS 07.01 B.1.6.1 3GPP TS 27.001, B.1.6.1	Phase 2	O	no	TSPC_BS61_Speech
10	Bearer Service 61, Alternate Speech/Data, .3.1 kHz audio ex-PLMN information transfer capability; Asynchronous.	3GPP TS 07.01 B.1.6.2.1 3GPP TS 27.001, B.1.6.2.1	Phase 2	O	no	TSPC_BS61_3.1kHz_Async
11	Bearer Service 61, Alternate Speech/Data, .3.1 kHz audio ex-PLMN information transfer capability; Synchronous.	3GPP TS 07.01 B.1.6.2.2 3GPP TS 27.001, B.1.6.2.2	Phase 2	O	no	TSPC_BS61_3.1kHz_Sync
12	Bearer Service 81, Speech followed by Data, "Speech".	3GPP TS 07.01 B.1.7.1 3GPP TS 27.001, B.1.7.1	Phase 2	O	no	TSPC_BS81_Speech
13	Bearer Service 81, Speech followed by Data, .3.1 kHz audio ex-PLMN information transfer capability; Asynchronous.	3GPP TS 07.01 B.1.7.2.1 3GPP TS 27.001, B.1.7.2.1	Phase 2	O	no	TSPC_BS81_3.1kHz_Async
14	Bearer Service 81, Speech followed by Data, .3.1 kHz audio ex-PLMN information transfer capability; Synchronous.	3GPP TS 07.01 B.1.7.2.2 3GPP TS 27.001, B.1.7.2.2	Phase 2	O	no	TSPC_BS81_3.1kHz_Sync
15	Teleservice 11..12, Speech.	3GPP TS 07.01 B.1.8 3GPP TS 27.001, B.1.8	Phase 2	O	yes	TSPC_TS1x_Speech
16	Teleservice 61, Alternate Speech and Facsimile group 3; "Speech".	3GPP TS 07.01 B.1.10.1 3GPP TS 27.001, B.1.8	Phase 2	O	no	TSPC_TS61_Speech
17	Teleservice 61, Alternate Speech and Facsimile group 3; Facsimile group 3.	3GPP TS 07.01 B.1.10.2 3GPP TS 27.001, B.1.10.2	Phase 2	O	yes	TSPC_TS61_G3FAX
18	Teleservice 62, Automatic Facsimile group 3	3GPP TS 07.01 1.11 3GPP TS 27.001, B.1.11	Phase 2	O	yes	TSPC_TS62_G3FAX

**Table A.7: Bearer Service 20..26, UDI/RDI**

Prerequisite: A.6/1 -- BS2x\_UDI (diagram in 3GPP TS 07.01 B.1.2.1 (3GPP TS 27.001 B.1.2.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Signalling Access Protocol (SAP).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	yes	I.440, X.28nond	I.440
2	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
3	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	ISO6429, COPnoFICt, NAV	

4	Number of Data Bits(NDB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	7 bits, 8 bits	
5	Parity Information (NPB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	odd, even, 0, 1, none	
6	Number of Stop Bits (NSB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1 bit, 2 bits	
7	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
8	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
9	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	
10	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, 38.4 48.56, NAV	
11	Wanted Air Interface User Rate (WAIUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C701	no	9.6, 14.4, 19.2, 28.8, 38.4, 43.2, 57.6, NAV	
12	User Initiated Modification Indication (UIMI)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	not req., upto1, upto2, upto3, upto4, NAV	
13	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C702	no	1, 2, 3, 4, NAV	
10a	all allowed combinations according to 3GPP TS 07.01 B.1.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	yes		

**Table A.8: Bearer Service 20..26, 3.1 kHz**

Prerequisite: A.6/2 -- BS2x\_3.1kHz (diagram in 3GPP TS 07.01 B.1.2.2 (3GPP TS 27.001 B.1.2.2)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Signalling Access Protocol (SAP).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	I.440, X.28hond	
2	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
3	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex A 3GPP TS 27.001, annex B	Phase 2	M	no	ISO6429, COPnoFICt, NAV	
4	Number of Data Bits (NDB).	3GPP TS 07.01 annex B	Phase 2	M	no	7 bits, 8 bits	
5	Parity Information (NPB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	odd, even, 0, 1, none	
6	Number of Stop Bits (NSB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1 bit, 2 bits	
7	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
8	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
9	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	
10	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	V.21, V.22, V.22bis, V.26ter V.32, V.23, auto	
11	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, NAV	
12	Wanted Air Interface User Rate (WAIUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C801	no	9.6, 14.4, 19.2, 28.8, 38.4, 43.2	
13	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	4.8, 9.6, 14.4, NAV	
14	User Initiated Modification Indication (UIMI)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	not req., upto1, upto2, upto3, upto4, NAV	

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
15	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C802	no	1, 2, 3, 4, NAV	
11a	all allowed combinations according to 3GPP TS 07.01 B.1.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.9: Bearer Service 30..34, UDI, Non-X.32**

Prerequisite: A.6/3 -- BS3x\_UDI\_nonX.32 (diagram in 3GPP TS 07.01 B.1.3.1.1 (3GPP TS 27.001 B.1.3.1.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Signalling Access Protocol (SAP).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	yes	1.440, X.21	1.440
2	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	yes	dualHR, FR, dualFR	FR
3	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	yes	8 kbps, 16 kbps	16 kbps
4	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	yes	1.2, 2.4, 4.8, 9.6	9.6
5	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	yes	9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, NAV	14.4
6	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	yes	4.8, 9.6, 14.4, NAV	14.4
7	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C901	yes	1, 2, 3, 4, NAV	1
5a	all allowed combinations according 3GPP TS 07.01 A2 1.3.1.1 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.10: Bearer Service 30..34, UDI, X-32**

Prerequisite: A.6/4 -- BS3x\_UDI\_X.32 (diagram in 3GPP TS 07.01 B.1.3.1.2 (3GPP TS 27.001 B.1.3.1.2)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
2	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
3	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	2.4, 4.8, 9.6	
4	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2 (R96)	M	no	X.25, (X.75)	
5	Rate Adaptation (RA)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2 (R96)	O	no	X.31Flag, (V.120)	
6	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, NAV	
7	Wanted Air Interface User Rate (WAIUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1001	no	9.6, 14.4, 19.2, 28.8, 38.4, 43.2, 57, NAV	
8	User Initiated Modification Indication (UIMI)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	not req., upto1, upto2, upto3, upto4, NAV	
9	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	4.8, 9.6, 14.4, NAV	
10	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1001	no	1, 2, 3, 4, NAV	
4a	all allowed combinations according to 3GPP TS 07.01 B.1.3.1.2 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.10a: Bearer Service 30..34, UDI, 48 kbps and 56 kbps bit transparent**

Prerequisite: A.6/4 -- BS3x\_UDI\_X.32[tbd] (diagram in 3GPP TS 07.01 B.1.3.1.4 (3GPP TS 27.001 B.1.3.1.4)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Signalling Access Protocol (SAP).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1.440, X.21	
2	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	48, 56	
3	all allowed combinations according to 3GPP TS 07.01 B.1.3.1.4 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.10b: Bearer Service 30..34, UDI, 64 kbps bit transparent**

Prerequisite: A.6/4 -- BS3x\_UDI\_X.32[tbd] (diagram in 3GPP TS 07.01 B.1.3.1.5 (3GPP TS 27.001 B.1.3.1.5)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Signalling Access Protocol (SAP).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1.440, X.21	
2	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4	
3	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	5, 6	
4	all allowed combinations according to 3GPP TS 07.01 B.1.3.1.5 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.11: Bearer Service 30..34, 3.1 kHz, Non-X-32**

Prerequisite: A.6/5 -- BS3x\_3.1kHz\_nonX.32 (diagram in 3GPP TS 07.01 B.1.3.2.1 (3GPP TS 27.001 B.1.3.2.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
2	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
3	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1.2, 2.4, 4.8, 9.6	
4	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	V.22, V.22bis, V.26ter, V.32	
5	Other Modem Type (OMT)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	no other MT, V.34, NAV	
6	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, NAV	
7	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	4.8, 9.6, 14.4, NAV	
8	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1101	no	1, 2, 3, 4, NAV	
5a	all allowed combinations according to 3GPP TS 07.01 B.1.3.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		



**Table A.12: Bearer Service 30..34, 3.1kHz, X-32**

Prerequisite: A.6/6 -- BS3x\_3.1kHz\_X.32 (diagram in 3GPP TS 07.01 B.1.3.2.2 (3GPP TS 27.001 B.3.2.2)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
2	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
3	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
4	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	2.4, 4.8, 9.6	
5	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	V.22bis, V.26ter, V.32	
6	Other Modem Type (OMT)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	no other MT, V.34, NAV	
7	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, NAV	
8	Wanted Air Interface User Rate (WAIUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1201	no	9.6, 14.4, 19.2, 28.8, NAV	
9	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	4.8, 9.6, 14.4, NAV	
10	User Initiated Modification Indication (UIMI)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	not req., upto1, upto2, upto3, upto4, NAV	
11	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1202	no	1, 2, 3, 4, NAV	
6a	all allowed combinations according to 3GPP TS 07.01 B.1.3.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.13: Bearer Service 40..46, PAD Access**

Prerequisite: A.6/7 -- BS4x\_PAD (diagram in 3GPP TS 07.01 B.1.4 (3GPP TS 27.001 B.1.4)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
2	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	ISO6429, COPnoFICt, NAV	
3	Number of Data Bits(NDB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	7 bits, 8 bits	
4	Parity Information (NPB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	odd, even, 0, 1, none	
5	Number of Stop Bits (NSB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1 bit, 2 bits	
6	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
7	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
8	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	
9	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, NAV	
10	Wanted Air Interface User Rate (WAIUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1301	no	9.6, 14.4, 19.2, 28.8, 38.4, 43.2, 57.6, NAV	
11	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	4.8, 9.6, 14.4, NAV	

12	User Initiated Modification Indication (UIMI)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	not req., upto1, upto2, upto3, upto4, NAV	
13	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1302	no	1, 2, 3, 4, NAV	
9a	all allowed combinations according to 3GPP TS 07.01 B.1.4 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.14: Bearer Service 50..53, Data Packet Duplex Synchronous**

Prerequisite: A.6/8 -- BS5x\_Packet (diagram in 3GPP TS 07.01 B.1.5 (3GPP TS 27.001 B.1.5)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
2	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
3	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	
4	Fixed Network User Rate (FNUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, NAV	
5	Wanted Air Interface User Rate (WAIUR)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1401	no	9.6, 14.4, 19.2, 28.8, 38.4, 43.2, 57.6, NAV	
6	Acceptable channel codings (ACC)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	4.8, 9.6, 14.4, NAV	
7	User Initiated Modification Indication (UIMI)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	O	no	not req., upto1, upto2, upto3, upto4, NAV	
8	Maximum number of Traffic Channels (MaxNumTCH)	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	C1402	no	1, 2, 3, 4, NAV	
4a	all allowed combinations according to 3GPP TS 07.01 B.1.5 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.15: Bearer Service 61, Alternate Speech/Data, "Speech"**

Prerequisite: A.6/9 -- BS61\_Speech (diagram in 3GPP TS 07.01 B.1.6.1 (3GPP TS 27.001 B.1.6.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	

**Table A.16: Bearer Service 61, Alternate Speech/Data, 3.1kHz, Async**

Prerequisite: A.6/10 -- BS61\_3.1kHz\_Async (diagram in 3GPP TS 07.01 B.1.6.2.1 (3GPP TS 27.001 B.1.6.2.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
2	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	ISO6429, COPnoFIcT, NAV	
3	Number of Data Bits (NDB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	7 bits, 8 bits	

4	Parity Information (NPB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	odd, even, 0, 1, none	
5	Number of Stop Bits (NSB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1 bit, 2 bits	
6	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
7	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
8	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	
9	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	M	no	V.21, V.22, V.22bis, V.26ter V.32, V.23, auto1	
10	all allowed combinations according to 3GPP TS 07.01 B.1.6.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.17: Bearer Service 61, Alternate Speech/Data, 3.1kHz, Sync**

Prerequisite: A.6/11 -- BS61\_3.1kHz\_Sync (diagram in 3GPP TS 07.01 B.1.6.2.2 (3GPP TS 27.001 B.1.6.2.2)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
2	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
3	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1.2, 2.4, 4.8, 9.6	
4	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	M	no	V.22, V.22bis, V.26ter, V.32	
5	all allowed combinations according to 3GPP TS 07.01 B.1.6.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.18: Bearer Service 81, Speech followed by Data, "Speech"**

Prerequisite: A.6/12 -- BS81\_Speech (diagram in 3GPP TS 07.01 B.1.7.1 (3GPP TS 27.001 B.1.7.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	

**Table A.19: Bearer Service 81, Speech followed by Data, 3.1kHz, Async**

Prerequisite: A.6/13 -- BS81\_3.1kHz\_Async (diagram in 3GPP TS 07.01 B.1.7.2.1 (3GPP TS 27.001 B.1.7.2.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
2	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	ISO6429, COPnoFIcT, NAV	
3	Number of Data Bits(NDB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	7 bits, 8 bits	
4	Parity Information (NPB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	odd, even, 0, 1, none	
5	Number of Stop Bits (NSB).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1 bit, 2 bits	
6	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	
7	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
8	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	
9	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	M	no	V.21, V.22, V.22bis, V.26ter V.32, V.23, auto1	
10	all allowed combinations according to 3GPP TS 07.01 B.1.7.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.20: Bearer Service 81, Speech followed by Data, 3.1kHz, Sync**

Prerequisite: A.6/14 -- BS81\_3.1kHz\_Sync (diagram in 3GPP TS 07.01 B.1.7.2.2 (3GPP TS 27.001 B.1.7.2.2)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR,FR, dualFR	
2	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
3	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	1.2, 2.4, 4.8, 9.6	
4	Modem Type (MT).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	R96	M	no	V.22, V.22bis, V.26ter, V.32	
5	all allowed combinations according 3GPP TS 07.01 B.1.7.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.21: Teleservice 11..12, Speech**

Prerequisite: A.6/15 -- TS1x\_Speech (diagram in 3GPP TS 07.01 B.1.8 (3GPP TS 27.001 B.1.8)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	dualHR, FR, dualFR	

**Table A.22: Alternate Speech and Facsimile group 3, Speech**

Prerequisite: A.6/16 -- TS61\_Speech (diagram in 3GPP TS 07.01 B.1.10.1 (3GPP TS 27.001 B.1.10.1)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Radio Channel Requirement (RCR).	3GPP TS 07.01 B1 3GPP TS 27.001, annex B 1	Phase 2	M	yes	dualHR, FR, dualFR	dualHR,

**Table A.23: Alternate Speech and Facsimile group 3, Facsimile group 3**

Prerequisite: A.6/17 -- TS61\_G3FAX (diagram in 3GPP TS 07.01 B.1.10.2 (3GPP TS 27.001 B.1.10.2)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
2	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	X.25 NAV	
3	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
4	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	2.4, 4.8, 9.6,	
5	all allowed combinations according 3GPP TS 07.01 B.1.10.2 (3GPP TS 27.001) implemented (if not, provide detailed description).			O	no		

**Table A.24: Teleservice 62, Automatic G3 fax**

Prerequisite: A.3/7 -- Serv\_TS62 (diagram in 3GPP TS 07.01 B.1.11 (3GPP TS 27.001 B.1.11)).

Item	Bearer Capability Elements	Reference	Release	Status	Support	Values	
						Allowed	Supported
1	Connection Element (CE).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	NT, bothNT, T, bothT	
2	User Info Layer 2 Protocol (UIL2P).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	X.25 NAV	
3	Intermediate Rate (IR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	8 kbps, 16 kbps	
4	User Rate (UR).	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	M	no	2.4, 4.8, 9.6	
5	all allowed combinations according to 3GPP TS 07.01 B.1.11 (3GPP TS 27.001, annex B) implemented (if not, provide detailed description).			O	no		

**Table A.25: Additional Information**

Item	Additional Information	Ref.	Release	Status	Support	Mnemonic
1	at least one half rate service.	3GPP TS 02.06 3.2.2 3GPP TS 22.101, 3.2.2	Phase 2	O	yes	TSPC_AddInfo_HalfRate
2	full rate speech mode.	3GPP TS 02.06 3.2.2, 3GPP TS 22.101, 3.2.2 3GPP TS 02.01 D.2, 3GPP TS 22.001, D.2	Phase 2	C2501	yes	TSPC_AddInfo_FullRateSpee ch
3	half rate speech mode.	3GPP TS 02.06 3.2.2, 3GPP TS 22.101, 3.2.2 3GPP TS 02.01 D.2 3GPP TS 22.001, D.2	Phase 2	O	yes	TSPC_AddInfo_HalfRateSpee ch
4	at least one data service.	3GPP TS 07.01 annex D, 3GPP TS 09.07, 3	Phase 2	O	yes	TSPC_AddInfo_DataSvc
5	at least one full rate data service.	3GPP TS 07.01 annex D, 3GPP TS 27.001, D 3GPP TS 09.07, 10 3GPP TS 29.007, 10	Phase 2	O	yes	TSPC_AddInfo_FullRateData

Item	Additional Information	Ref.	Release	Status	Support	Mnemonic
6	at least one half rate data service.	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	no	TSPC_AddInfo_HalfRateData
7	at least one non transparent data service.	3GPP TS 02.02 3, 3GPP TS 22.002, D.2 3GPP TS 02.03 6 3GPP TS 22.001, D.2	Phase 2	O	yes	TSPC_AddInfo_NonTransData
8	at least one transparent data service.	3GPP TS 02.02 3, 3GPP TS 22.002, 3, 3GPP TS 02.03 6 3GPP TS 22.003, 6	Phase 2	O	yes	TSPC_AddInfo_TransData
9	only transparent data service	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 02.03 6 3GPP TS 22.003, 6	Phase 2	O	no	TSPC_AddInfo_TranspDataOnly
10	at least one asynchronous data service.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	yes	TSPC_AddInfo_AsyncData
11	at least one asynchronous non transparent data service.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	yes	TSPC_AddInfo_AsyncNonTransData
12	2.4 k full rate data mode.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	yes	TSPC_AddInfo_24DataF
13	2.4 k half rate data mode.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	no	TSPC_AddInfo_24DataH
14	4.8 k full rate data mode.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	yes	TSPC_AddInfo_48DataF
15	4.8 k half rate data mode.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	no	TSPC_AddInfo_48DataH
16	9.6 k full rate data mode.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	yes	TSPC_AddInfo_96Data
17	non transparent service with full rate channel at a user rate of 4.8 kbit/s.	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 annex B, 3GPP TS 27.001, annex B	Phase 2	O	no	TSPC_AddInfo_fullRate4.8
18	at least one bearer capability.	3GPP TS 07.01 annex B 3GPP TS 27.001, annex B	Phase 2	O	yes	TSPC_AddInfo_BC
19	at least one MT circuit switched basic service.	3GPP TS 04.08 5.3.4.2.2 3GPP TS 24.008, 5.3.4.2.2	Phase 2	O	yes	TSPC_AddInfo_MTsvc
20	at least one MO circuit switched basic service.	3GPP TS 04.08 5.3.4.2.1 3GPP TS 24.008, 5.3.4.2.1	Phase 2	O	yes	TSPC_AddInfo_MOsvc
21	only SDCCH.	3GPP TS 02.06 3.2.2 3GPP TS 22.101, 3.2.2	Phase 2	O	no	TSPC_AddInfo_SDCCHOnly
22	at least one service on traffic channel supported	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 02.03 annex A 3GPP TS 22.003, annex A	Phase 2	O	yes	TSPC_AddInfo_SvcOnTCH
23	dual rate channel types.	3GPP TS 02.06 3.2.2 3GPP TS 22.101, 3.2.2	Phase 2	O	yes	TSPC_AddInfo_DualRate
24	only full rate channel type.	3GPP TS 02.06 3.2.2 3GPP TS 22.101, 3.2.2	Phase 2	O	no	TSPC_AddInfo_FullRateOnly
25	at least one teleservice.	3GPP TS 02.03 6 3GPP TS 22.003, 6	Phase 2	O	yes	TSPC_AddInfo_TeleSvc
26	CC protocol for at least one BC.	3GPP TS 04.08 5 3GPP TS 24.008, 5	Phase 2	O	yes	TSPC_AddInfo_CCprotocol_onBC
27	only circuit switched basic service supported by the mobile is emergency call.	3GPP TS 02.03 6, A.1.2 3GPP TS 22.003, 6, A.1.2	Phase 2	C2505	no	TSPC_AddInfo_EmgOnly

Item	Additional Information	Ref.	Release	Status	Support	Mnemonic
28	Fax Error Correction Mode.	3GPP TS 03.45,4.2.2 3GPP TS 23.045, 4.2.2 3GPP TS 03.46,2.6	Phase 2	O	yes	TSPC_AddInfo_FaxErrCorr
29	at least one supplementary service.	3GPP TS 02.04 4, 3GPP TS 22.004, 4 3GPP TS 02.07 B.2.1	Phase 2	O	yes	TSPC_AddInfo_SS
30	non call related supplementary service.	3GPP TS 02.04 4 3GPP TS 22.004, 4	Phase 2	O	yes	TSPC_AddInfo_NonCallSS
31	at least one short message service.	3GPP TS 02.03 B.1.7, A.1.3 3GPP TS 22.003, B.1.3, A.1.3	Phase 2	O	yes	TSPC_AddInfo_SMS
32	(SMS) reply procedure.	3GPP TS 03.40 3 3GPP TS 23.040, 3	Phase 2	O	yes	TSPC_AddInfo_ReplyProc
33	replace SMS.	3GPP TS 03.40 3 3GPP TS 23.040, 3	Phase 2	O	yes	TSPC_AddInfo_ReplaceSMS
34	display of received SMS.	3GPP TS 03.40 9, 3GPP TS 23.040, 9 3GPP TS 03.41 8 3GPP TS 23.041, 8	Phase 2	O	yes	TSPC_AddInfo_DisprcvSMS
35	SMS status report capabilities.	3GPP TS 03.40 3.2.9 3GPP TS 23.040, 3.2.9	Phase 2	O	yes	TSPC_AddInfo_SMSStatusRe pCap
36	Storing of short messages in the SIM.	3GPP TS 03.38 4 3GPP TS 23.038, 4	Phase 2	O	yes	TSPC_AddInfo_StoreRcvSMS SIM
37	Storing of short messages in the ME.	3GPP TS 03.38 4 3GPP TS 23.038, 4 3GPP TS 03.40, 10 3GPP TS 23.040, 10	Phase 2	O	no	TSPC_AddInfo_StoreRcvSMS ME
38	detach on power down.	3GPP TS 04.08 4.3.4 3GPP TS 24.008, 4.3.4	Phase 2	O	yes	TSPC_AddInfo_DetachOnPwr Dn
39	detach on SIM remove.	3GPP TS 04.08 4.3.4 3GPP TS 24.008, 4.3.4	Phase 2	O	no	TSPC_AddInfo_DetachOnSIM Rmv
40	SIM removable without power down.	3GPP TS 02.17 5.7		O	no	TSPC_AddInfo_SIMRmv
41	ID-1 SIM.	3GPP TS 02.17 4.1.1	Phase 2	O.2502	no	TSPC_AddInfo_ID1
42	Plug-In SIM.	3GPP TS 02.17 4.1.2	Phase 2	O.2502	yes	TSPC_AddInfo_PlugIn
43	Disable PIN feature.	3GPP TS 02.17 5.6	Phase 2	O	yes	TSPC_AddInfo_DisablePin
44	PIN2 feature.	3GPP TS 02.17 5.6	Phase 2	O	yes	TSPC_AddInfo_Pin2
45	Feature requiring entry of PIN2.	3GPP TS 02.17 5.6	Phase 2	O	yes	TSPC_AddInfo_Pin2Feature
46	Chars 0-9, *, # supported	3GPP TS 02.30 2.3, 3GPP TS 22.030, 2.3 3GPP TS 02.07 B.1.5	Phase 2	O	yes	TSPC_AddInfo_BasCharSet
47	A, B, C, D chars. supported	3GPP TS 02.30 2.3 3GPP TS 22.030, 2.3	Phase 2	O	yes	TSPC_AddInfo_AddCharSet
48	automatically enter automatic selection of PLMN mode.	3GPP TS 02.11 3.2 3GPP TS 22.011, 3.2	Phase 2	O	yes	TSPC_AddInfo_AutoAutoMod e
49	alerting indication to the user.	3GPP TS 04.08 5.2.1.5 3GPP TS 24.008, 5.2.1.5	Phase 2	O	yes	TSPC_AddInfo_AlertInd
50	Appl. Layer is always running.	3GPP TS 11.10-1 18.1 3GPP TS 51.010-1, 18.1	R98	O	yes	TSPC_AddInfo_ApplAlwaysR un
51	Immediate connect supported for all circuit switched basic services.	3GPP TS 04.08 5.2.1.6 3GPP TS 24.008, 5.2.1.6	Phase 2	O	no	TSPC_AddInfo_ImmConn
52	In-Call modification.	3GPP TS 04.08 5.3.4.3 3GPP TS 24.008, 5.3.4.3	Phase 2	O	no	TSPC_AddInfo_InCallMod
53	follow-on request procedure.	3GPP TS 04.08 4.4.4.6 3GPP TS 24.008, 4.4.4.6	Phase 2	O	yes	TSPC_AddInfo_followOnReq
54	refusal of call.	3GPP TS 04.08 5.2.2.3.1 3GPP TS 24.008, 5.2.2.3.1	Phase 2	O	yes	TSPC_AddInfo_RefusalCall
55	RF amplification.	3GPP TS 04.08 3.4.10 3GPP TS 44.018, 3.4.10	Phase 2	O	no	TSPC_AddInfo_RFAmp
56	Number of B-party number for autocalling is greater than the number of entries in the blacklist.	3GPP TS 02.07 annex A	Phase 2	O	no	TSPC_AddInfo_AutocalBnoG reaterM
57	Handset MS supporting speech.	3GPP TS 03.50 3.1.1	Phase 2	O	yes	TSPC_AddInfo_SpeechHand set
58	MT2 Configuration.	3GPP TS 04.02 3 3GPP TS 24.002, 3	Phase 2	O	yes	TSPC_AddInfo_MT2

Item	Additional Information	Ref.	Release	Status	Support	Mnemonic
59	MT2 Configuration or any other possibility to send data over Um interface.	3GPP TS 04.02 3 3GPP TS 24.002, 3	Phase 2	O	yes	TSPC_AddInfo_MT2orOther
60	Permanent Antenna Connector.	3GPP TS 51.010-1 12.1.1, 12.1.2	Release 4	O.2504	yes	TSPC_AddInfo_PermAntenna
61	Pseudo-synchronized handover supported.	3GPP TS 05.10 2, annex A	Phase 2	O	yes	TSPC_AddInfo_PseudoSynch
62	5V only SIM/ME interface.	3GPP TS 11.11	R96	O.2503	no	TSPC_AddInfo_5V
63	3V only SIM/ME interface.	3GPP TS 11.12	R96	O.2503	no	TSPC_AddInfo_3V
64	3V/5V SIM/ME interface.	3GPP TS 11.12	R96	O.2503	yes	TSPC_AddInfo_3V5V
65	Enhanced full rate speech supported	3GPP TS 06.51	Phase 2	C2502	yes	TSPC_AddInfo_EFR
66a	RLP supports non default parameters	3GPP TS 04.22 5.2.2.6 3GPP TS 24.022, 3	Phase 2	O	yes	TSPC_AddInfo_NonDefaultRlpParam
66b	Support of listening to voice broadcast calls (VBS listening)	3GPP TS 04.08, 0.7 3GPP TS 24.008, 1.7.1	R 96	O	no	TSPC_AddInfo_VBS_Listening
67	Support of originating voice broadcast call (VBS originating)	3GPP TS 04.08, 0.7 3GPP TS 24.008, 1.7.1	R 96	O	no	TSPC_AddInfo_VBS_Originating
68	Support of listening to voice group calls (VGCS listening)	3GPP TS 04.08, 0.7 3GPP TS 24.008, 1.7.1	R96	C2503	no	TSPC_AddInfo_VGCS_Listening
69	Support of talking in voice group calls (VGCS talking)	3GPP TS 04.08, 0.7.1 3GPP TS 24.008, 1.7.1	R96	C2504	no	TSPC_AddInfo_VGCS_Talking
70	Support of originating voice group call (VGCS originating)	3GPP TS 04.08, 0.7 3GPP TS 24.008, 0.7	R96	O	no	TSPC_AddInfo_VGCS_Originating
71	Support reduced NCH monitoring	3GPP TS 04.08, 3.3.3.3 3GPP TS 44.018, 3.3.3.3	R96	O	no	TSPC_AddInfo_NCH_ReducedMonitor
72	14.4 k data mode	3GPP TS 02.02 3, 3GPP TS 22.002, 3 3GPP TS 07.01 Annex B, 3GPP TS 27.001, Annex B	R 96	O	yes	TSPC_AddInfo_144Data
73	Implementation of cause number 27 of busy autocalling in category 2	3GPP TS 02.07, Annex A	Phase 2	O	no	TSPC_AddInfo_Impl_CNr27_Cat2
74	Implementation of cause number 27 of busy autocalling in category 3	3GPP TS 02.07, Annex A	Phase 2	O	no	TSPC_AddInfo_Impl_CNr27_Cat3
75	Support of immediate connect	3GPP TS 04.08, 5.2.1.6 3GPP TS 24.008, 5.2.1.6	Phase 2	O	no	TSPC_AddInfo_imm_Con
76	Artificial ear type 1	3GPP TS 03.50	Phase 2 up to and including release 4	O	no	TSPC_AddInfo_Ear_type1
77	Artificial ear type 3.2, Low leak option	3GPP TS 03.50	Phase 2	O	no	TSPC_AddInfo_Ear_type32_LL
78	Artificial ear type 3.4	3GPP TS 03.50	R96	O	no	TSPC_AddInfo_Ear_type34
79	Speech supported for Multi Rate version 1	3GPP TS 05.09 3.4	R98	C2502	no	TSPC_AddInfo_AMR
80	NCH monitoring in group receive mode	3GPP TS 03.68 11.3.1.3.a 3GPP TS 43.068, 11.3.1.3	R 96	O	no	TSPC_AddInfo_NCH_Monitor_Rev
81	NCH monitoring in group transmit mode	3GPP TS 03.68 11.3.1.3.a 3GPP TS 43.068, 11.3.1.3	R 96	O	no	TSPC_AddInfo_NCH_Monitor_Tra
82	NCH monitoring in dedicated mode	3GPP TS 03.68 11.3.1.3.a 3GPP TS 43.068, 11.3.1.3	R 96	O	no	TSPC_AddInfo_NCH_Monitor_Ded
83	Support of one PDP context activation	3GPP TS 04.08, 6.1.3.1 3GPP TS 24.008, 6.1.3.1	R 97	O	yes	TSPC_AddInfo_1PDP_CA
84	Support of more than one PDP context activation	3GPP TS 04.08 3GPP TS 24.008	R 97	O	yes	TSPC_AddInfo_mor1PDP CA
85	Support of more than one PDP context activation simultaneously on the same SAPI	3GPP TS 04.08 3GPP TS 24.008	R 97	O	yes	TSPC_AddInfo_mor1PDP CA_SAPI
86	Support of GPRS data compression	3GPP TS 04.65, 6.6 3GPP TS 24.065, 6.6	R 97	O	yes	TSPC_AddInfo_GPRS_Data_Compr
87	Support of GPRS header compression	3GPP TS 04.65 3GPP TS 24.065	R 98	O	yes	TSPC_AddInfo_GPRS_Header_Compr
88	Support of Network requested PDP context activation	3GPP TS 04.08, 6.1.3.1.2 3GPP TS 24.008, 6.1.3.1.2	R 97	O	no	TSPC_AddInfo_N_req_PDP_CA
89	Support for user settings of minimum QoS	3GPP TS 02.60 3GPP TS 22.060	R 97	O	yes	TSPC_AddInfo_min_QoS
90	Automatic GPRS attach procedure at switch-on/power-on	3GPP TS 04.08, 4.7.3 3GPP TS 24.008, 4.7.3	R 97	O	yes	TSPC_AddInfo_on_auto_GPRS_AP



Item	Additional Information	Ref.	Release	Status	Support	Mnemonic
91	MMI controlled attach/detach procedures for non-GPRS services	3GPP TS 04.08, 4.7.3.1.4 3GPP TS 24.008, 4.7.3.1.4	R 97	O	no	TSPC_AddInfo_MMI_contr_A/ DProc_Non GPRS
92	Automatic attach procedure when MS identity cannot derived by the network	3GPP TS 04.08, 4.7.5.1.4 3GPP TS 24.008, 4.7.5.1.4	R 97	O	yes	TSPC_AddInfo_auto_AP_no_ MS ID
93	Automatic MM IMSI attach procedure at switch-on/power-on	3GPP TS 04.08, 4.7.3.2.4 3GPP TS 24.008, 4.7.3.2.4	R98	O	yes	TSPC_AddInfo_auto_MM_IM SI_AP_on/off
94	Support of SIM Application Toolkit	3GPP TS 11.11, 11.6	R96	O	yes	TSPC_AddInfo_SIM_Appl_To olkit
95	1,8V only SIM/ME interface.	3GPP TS 11.18	R98	O.2503	no	TSPC_AddInfo_1,8V
96	1,8V/3V SIM/ME interface.	3GPP TS 11.18	R98	O.2503	no	TSPC_AddInfo_1,8V3V
97	Multiple SM MO/PP on same RR link	3GPP TS 03.40 3.7 3GPP TS 23.040, 3.7	Phase 2	O	no	TSPC_AddInfo_MultSMsame RR
98	Support of stored list cell selection	3GPP TS 05.08 3GPP TS 45.008	Phase 2	O	yes	TSPC_AddInfo_StoredListCell Sel
99	at least one service not support immediate connection	3GPP TS 04.08 3GPP TS 24.008	Phase 2	O	yes	TSPC_AddInfo_NoimmConn
100	Enhanced full rate speech version 2 supported	3GPP TS 06.51	Phase 2	O		TSPC_AddInfo_EFR_Speech v2
101	Enhanced full rate speech version 3 supported	3GPP TS 06.51	Phase 2	O		TSPC_AddInfo_EFR_Speech v3
102	EFR_EmgCallSetup message contains the bearer capability	3GPP TS 06.51	Phase 2	O	yes	TSPC_AddInfo_EFR_EmgCal lBcap
103	Support of MonitorPCH_GroupTransmitMode	3GPP TS 11.10-1 3GPP TS 51.010-1	Phase 2	O	yes	TSPC_AddInfo_MonitorPCH_ GroupTransmitMode
104	Integral_Antenna Connector	3GPP TS 51.010-1 12	Release 4	O.2504	no	TSPC_AddInfo_IntegrAntenna
105	User requested combined GPRS and non-GPRS detached without powering off	3GPP TS 04.08, 4.7.4 3GPP TS 24.008, 4.7.4	R97	O	no	TSPC_AddInfo_Comb_DP_no _pwr_off
106	User requested non-GPRS detached	3GPP TS 04.08, 4.7.4 3GPP TS 24.008, 4.7.4	R97	O	no	TSPC_AddInfo_Usr_non_GP RS_DP
107	Artificial ear type 3.2, High leak option	3GPP TS 43.050	Phase 2	O	no	TSPC_AddInfo_Ear_type32_ HL
108	Artificial ear type 3.3	3GPP TS 43.050	R96	O	no	TSPC_AddInfo_Ear_type33
109	Support of Multiple SMS	3GPP TS 03.40 3.7 3GPP TS 23.040, 3.7	Phase2	O	no	TSPC_Addinfo_MultSMS
110	Cell Reselection after T3184 Expiry	3GPP TS 04.60	R97	O	no	TSPC_Cell_Resel
111	GPRS attach attempted automatically due to outstanding request	3GPP TS 04.08, 4.7.3 3GPP TS 24.008, 4.7.3 3GPP TS 04.08, 4.7.3 3GPP TS 24.008, 4.7.3	R97	O	no	TSPC_AddInfo_GPRS_Attach _Attempt_Outstanding
112	Speech supported for Half rate version 3	3GPP TS 04.08, 10.5.4.5 3GPP TS 24.008, 10.5.4.5	R98	O	yes	TSPC_AddInfo_Half_rate_ver sion_3
113	AMR LoopBack I	3GPP TS 44.014	R5	C2502	no	TSPC_AMR_LoopBack_I
114	TTY services	3GPP TS 24.008	R99	O	no	TSPC_AddInfo_TTY
115	Support of Secondary PDP Context Activation	3GPP TS 24.008	R99	O	no	TSPC_AddInfo_TTY
116	Support of MO SMS Concatenation	3GPP TS 24.008, 6.1.3	Phase2	O	no	TSPC_SEC_PDP_CONTEXT
117	Support of MT SMS Concatenation	3GPP TS 23.040 9.2.3.24.1	Phase2	O	no	TSPC_SMS_MO_CONCATE NATION
118	NITZ Supported	3GPP TS 23.040 9.2.3.24.1	R97	O	no	TSPC_SMS_MT_CONCATE NATION
119	Handling of Real Time (for NITZ)	3GPP TS 2.42 3GPP TS 22.042	R97	O	no	TSPC_NITZ
120	Deletion of NITZ parameters supported	3GPP TS 2.42 3GPP TS 22.042	R97	O	no	TSPC_NITZ_Real_Time

**Table A.26.3: Proactive commands**

Item	Release	Teleservice	Support
1	R96	Display Text	yes
2	R96	Get Inkey	yes
3	R96	Get Input	yes
4	R96	More Time	yes
5	R96	Play Tone	yes
6	R96	Poll Interval	yes
7	R96	Refresh	yes
8	R96	Set up Menu	yes
9	R96	Select Item	yes
10	R96	Send Short Message	yes
11	R96	Send SS	yes
12	R96	Set Up Call	yes
13	R96	Polling off	yes
14	R96	Provide Local Information	yes
15	R97	Send USSD	yes
16	R98	Set Up Event List	yes
17	R98	Perform Card APDU	no
18	R98	Power Off Card	no
19	R98	Power On Card	no
20	R99	Get Reader Status	yes
21	R98	Timer Management	yes
22	R98	Set Up Idle Mode Text	yes
23	R98	Run AT Command	yes
24	R98	Send DTMF	yes
25	R99	Language Notification	yes
26	R99	Launch Browser	no
27	R99	Open Channel	yes
28	R99	Close Channel	yes
29	R99	Receive Data	yes
30	R99	Send Data	yes
31	R99	Get Channel Status	yes

**Table A.26.4: Display Text**

Item	Release	Teleservice	Support
1		void	
2	R98	Immediate Response	yes
3	R97	UCS2 coding scheme supported	yes
4	R98	Extended string	no
5	R98	Sustained Text	yes

**Table A.26.5: Get Inkey**

Item	Release	Teleservice	Support
1		Void	
2		Void	
3		Void	
4	R98	Binary Choice	yes
5	R97	UCS2 Display	yes
6	R97	UCS2 Entry	yes

**Table A.26.6: Get Input**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1		Void		
2		Void		
3		Void		
4	R97	UCS2 Display		yes
5	R97	UCS2 Entry		yes

**Table A.26.7: Play Tone**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1		Void		
2	R97	UCS2 Display		yes

**Table A.26.8: Poll Interval**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1	R96	Maximum poll interval	0.1 s.. 255 min	yes
2	R96	Minimum poll interval	0.1 s.. 255 min	yes

**Table A.26.10: Set Up Menu**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1		Void		
2		Void		
3	R97	Help Information		yes
4	R99	Soft Key support		no
5	R98	UCS2 Display		yes

**Table A.26.11: Select Item**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1		Void		
2		Void		
3	R99	Soft Key Support		no
4	R98	UCS2 Display		yes

**Table A.26.12: Send Short Message**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1				
2	R97	UCS2 Display		no

**Table A.26.13: Send SS**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1				
2	R97	UCS2 Display		yes

**Table A.26.14: Set Up Call**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1		Void		
2		Void		
3		Void		
4	R97	UCS2 Display		yes
5	R98	2nd Alpha Identifier		no

**Table A.26.15: Data Download**

Item	Release	Teleservice	Support
1	R96	The SIMPLE-TLV Address used in BER-TLV ENVELOPE for SMS-PP Download.	yes
2	R97	'9EXX' response code for SIM data download error	yes

**Table A.26.16: Call Control**

Item	Release	Teleservice	Support
1	R96	SIMPLE-TLV "Called Party Subaddress" used in BER-TLV ENVELOPE.	yes
2	R96	Emergency Call Codes (ECC).	yes
3	R96	Fixed Number Dialling	yes
4	R97	Cell Identity	yes
5	R98	USSD String	yes
6	R99	Automatic Redial	yes
7	R98	MO SMS Control	yes
8	R98	2nd capability configuration parameter	no
9	R97	Handling of the alpha identifier	yes

**Table A.26.17: Provide Local Information**

Item	Release	Teleservice	Support
1	R97	Network Measurements (NMR)	yes
2	R98	Date Time and Time Zone	yes
3	R98	BCCH Channel List	yes
4	R99	Language Settings	yes
5	R99	Timing Advance	yes

**Table A.26.18: Event Download**

Item	Release	Teleservice	Support
1	R99	Event : Card reader status	no
2	R99	Event – Language Selection	yes
3	R99	Event : Browser Termination	yes
4	R99	Event : Data available	yes
5	R99	Event : Channel Status	yes

**Table A.26.19: Send USSD**

Item	Release	Bearer Capability Elements	Values	
			Allowed	Support
1	R97	UCS2 Display		yes

**Table A.26.20: Get Reader Status**

Item	Release	Teleservice	Support
1	R98	Detachable Reader	no

**Table A.26.21: Send DTMF**

Item	Release	Teleservice	Support
1	R98	UCS2 Display	yes

**Table A.26.22: Open Channel**

Item	Release	Teleservice	Support
1	R99	For CSD	yes
2	R99	For GPRS	yes
3	R99	TCP Transport Protocol	yes
4	R99	UDP Transport Protocol	yes

**Table A.26.23: Set Up Idle Mode Text**

Item	Release	Teleservice	Support
1	R98	UCS2 Display	yes

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