26.13 Multislot signalling

26.13.1 Multislot signalling / RR

26.13.1.1 Multislot signalling / RR / Measurement

26.13.1.1.1 Multislot signalling / RR / Measurement / symmetric

26.13.1.1.1.1 Conformance requirements

The MS shall continuously send MEASUREMENT REPORT messages, on every uplink HSCSD channel used, on every SACCH blocks and the measurement valid indication shall be set to valid (0) within the second block at the latest. After 20 s the values in the MEASUREMENT REPORT message shall contain measurement results for the 4 strongest BCCH carriers with known and allowed NCC part of BSIC.

References

3GPP TS 04.08 / 3GPP TS 44.018, subclauses 3.4.1.2 and 9.1.21.

3GPP TS 05.08, subclause 8.4.

26.13.1.1.1.2 Test purpose

To test that, when a combination of normal neighbours, and non-permitted NCCs is "on air", the MS reports only
on normal neighbours and that in symmetric HSCSD configuration the neighbouring cell measurement reports
are copied on every uplink HSCSD channel used.

26.13.1.1.1.3 Method of test

Initial Conditions

System Simulator:

For GSM 450 or GSM 480: 8 cells with the following settings:

Transmitter	Level	NCC	BSCC	ARFCN (GSM 450)	ARFCN (GSM 480)	Cell Identity
Serving, S1	-60	1	3	260	307	0001H
Neighbour, N1	-85	1	5	264	311	0002H
Neighbour, N2	-80	1	7	268	315	0003H
Neighbour, N3	-75	2	1	272	319	0004H
Neighbour, N4	-55	3	3	276	323	0005H
Neighbour, N5	-50	4	5	280	327	0006H
Neighbour, N6	-45	1	7	284	331	0007H
Neighbour, N7	-40	1	1	288	335	0008H

For GSM 900 or DCS 1 800: 8 cells with the following settings:

Transmitter	Level	NCC	BSCC	ARFCN	ARFCN	Cell Identity
				(GSM 900)	(DCS 1 800)	
Serving, S1	-60	1	3	002	514	0001H
Neighbour, N1	-85	1	5	008	530	0002H
Neighbour, N2	-80	1	7	014	602	0003H
Neighbour, N3	-75	2	1	020	665	0004H
Neighbour, N4	-55	3	3	026	762	0005H
Neighbour, N5	-50	4	5	032	686	0006H
Neighbour, N6	-45	1	7	038	549	0007H
Neighbour, N7	-40	1	1	044	810	0008H

For GSM 700 or GSM 850: 8 cells with the following settings:

Transmitter	Level	NCC	BSCC	ARFCN	ARFCN	Cell Identity
				(GSM 700)	GSM 850)	
Serving, S1	-60	1	3	439	129	0001H
Neighbour, N1	-85	1	5	445	135	0002H
Neighbour, N2	-80	1	7	451	141	0003H
Neighbour, N3	-75	2	1	457	147	0004H
Neighbour, N4	-55	3	3	463	153	0005H
Neighbour, N5	-50	4	5	469	159	0006H
Neighbour, N6	-45	1	7	475	165	0007H
Neighbour, N7	-40	1	1	481	171	0008H

With the exception of the Cell Allocation, the rest of the parameters for all eight cells are the same as the default settings and default SYSTEM INFORMATION TYPE 1 to 4 message contents for cell A. The Cell Allocation for the serving cell is the same as the default setting for cell A. The Cell Allocations for the neighbour cells need have only one entry, consisting of the ARFCN of that cell's BCCH.

Mobile Station:

The MS is in the active state of a service using symmetric multislot connection.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

Active state of a service using symmetric multislot connection.

Test Procedure

This test procedure is repeated for all the symmetric multislot configurations MS supports.

With the MS having a multislot connection in progress, the SS sends SYSTEM INFORMATION TYPE 5 & 6 on the SACCH/M. All 7 of the BCCHs "on air" are indicated in the BA (N1 is excluded). The MS shall send MEASUREMENT REPORTs back to the SS on every uplink HSCSD channel, and it shall be indicated in these that measurement results for the 4 strongest carriers have been obtained.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

SYSTEM INFORMATION TYPE 5, SYSTEM INFORMATION TYPE 6 and MEASUREMENT REPORT are sent continuously, a table is not applicable in this test. The interval between 2 successive Layer 2 frames containing MEASUREMENT REPORTs shall not exceed one Layer 2 frame.

Specific Message Contents

SYSTEM INFORMATION TYPE 5

DCS 1 800 and PCS 1 900 begin:

Information Element	value/remark
Neighbour Cells Description	
- Format Identifier	1024 range
- EXT IND	Information Element carries complete BA.
- W(i)	Non null for ARFCN 514, 549, 602, 665, 686, 762, 810.

DCS 1 800 and PCS 1 900 end:

Other bands begin:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	See the table below
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	See the table below
- EXT IND	Information Element carries complete BA.

Band		Neighbour Cells Description
	Format	BCCH Allocation ARFCN
	Identifier	
GSM 450	Range 128	259, 260, 262, 263, 264, 266, 267, 268, 269, 270, 271, 272, 274, 275, 276,
		277, 278, 280, 281, 282, 283, 284, 285, 286, 287, 288, 290, 291, 292, 293
GSM 480	Range 128	306, 307, 308, 310, 311, 312, 313, 315, 316, 317, 318, 319, 321, 322, 323,
		324, 325, 326, 327, 329, 330, 331, 332, 333, 334, 335, 337, 338, 339, 340
GSM 710	Range 128	439, 441, 442, 443, 444, 446, 447, 448, 449, 450, 451, 453, 454, 455, 456,
		457, 458, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473, 475, 477 and
		481
GSM 750	Range 128	439, 441, 442, 443, 444, 446, 447, 448, 449, 450, 451, 453, 454, 455, 456,
	-	457, 458, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473, 475, 477 and
		481
T-GSM810	Range 128	439, 441, 442, 443, 444, 446, 447, 448, 449, 450, 451, 453, 454, 455, 456,
		457, 458, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473, 475, 477 and
		481
GSM 850	Range 128	129, 131, 132, 133, 134, 136, 137, 138, 139, 140, 141, 143, 144, 145, 146,
		147, 148, 150, 151, 153, 155, 156, 157, 159, 161, 162, 163, 165, 167 and
		171
GSM 900	Bit map 0	2, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 26, 28, 29,
		30, 32, 34, 35, 36, 38, 40 and 44

Other bands end:

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	Default	
LAI	Default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio-Link-Time-out	Default	
PLMN permitted	only NCC 1 permitted	

MEASUREMENT REPORT

Information Element	value/remark
Protocol Discriminator	RR Management
Transaction Identifier	0000
Message Type	MEASUREMENT REPORT
Measurement Results	
BA_used	1
DTX_used	DTX was not used
RXLEV_FULL_SERVING_CELL	See note 1
RXLEV_SUB_SERVING_CELL	See note 1
MEAS_VALID	See note 2
RXQUAL_FULL_SERVING_CELL	See note 1
RXQUAL_SUB_SERVING_CELL	See note 1
NO_NCELL_M	4 neighbour cell measurement results
RXLEV_NCELL_1	See note 1
BCCH_FREQ_NCELL_1	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_1	Corresponds to that of BCCH_FREQ_NCELL_1
RXLEV_NCELL_2	See note 1
BCCH_FREQ_NCELL_2	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_2	Corresponds to that of BCCH_FREQ_NCELL_2
RXLEV_NCELL_3	See note 1
BCCH_FREQ_NCELL_3	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_3	Corresponds to that of BCCH_FREQ_NCELL_3
RXLEV_NCELL_4	See note 1
BCCH_FREQ_NCELL_4	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_4	Corresponds to that of BCCH_FREQ_NCELL_4
RXLEV_NCELL_5	00 0000
BCCH_FREQ_NCELL_5	0 0000
BSIC_NCELL_5	00 0000
RXLEV_NCELL_6	00 0000
BCCH_FREQ_NCELL_6	0 0000
BSIC_NCELL_6	00 0000

This message shall contain one report on each of N7, N6, S1 and N2.

NOTE 1: These actual values are not checked.

NOTE 2: The Measurement Valid Indication shall be set to valid within the second SACCH block at the latest.

26.13.1.1.2 Multislot signalling / RR / Measurement / asymmetric

26.13.1.1.2.1 Conformance requirements

The MS shall continuously send MEASUREMENT REPORT messages, on every uplink HSCSD channel used, on every SACCH blocks and the measurement valid indication shall be set to valid (0) within the second block at the latest. After 20 s the values in the MEASUREMENT REPORT message shall contain measurement results for the 4 strongest BCCH carriers with known and allowed NCC part of BSIC.

References

3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.1.2 and 9.1.21.

3GPP TS 05.08 subclause 8.4.

26.13.1.1.2.2 Test purpose

 To test that, when a combination of normal neighbours, barred cells and non-permitted NCCs is "on air", the MS reports only on normal neighbours and that in asymmetric HSCSD configuration the neighbouring cell measurement reports are copied on every uplink HSCSD channel used.

26.13.1.1.2.3 Method of test

Initial Conditions

System Simulator:

For GSM 450 or GSM 480: 8 cells with the following settings:

Transmitter	Level	NCC	BSCC	ARFCN (GSM 450)	ARFCN (GSM 480)	Cell Identity
Serving, S1	-60	1	3	260	307	0001H
Neighbour, N1	-85	1	5	264	311	0002H
Neighbour, N2	-80	1	7	268	315	0003H
Neighbour, N3	-75	2	1	272	319	0004H
Neighbour, N4	-55	3	3	276	323	0005H
Neighbour, N5	-50	4	5	280	327	0006H
Neighbour, N6	-45	1	7	284	331	0007H
Neighbour, N7	-40	1	1	288	335	0008H

For GSM 900 or DCS 1 800: 8 cells with the following settings:

Transmitter	Level	NCC	BSCC	ARFCN (GSM 900)	ARFCN (DCS 1 800)	Cell Identity
Serving, S1	-60	1	3	002	514	0001H
Neighbour, N1	-85	1	5	008	530	0002H
Neighbour, N2	-80	1	7	014	602	0003H
Neighbour, N3	-75	2	1	020	665	0004H
Neighbour, N4	-55	3	3	026	762	0005H
Neighbour, N5	-50	4	5	032	686	0006H
Neighbour, N6	-45	1	7	038	549	0007H
Neighbour, N7	-40	1	1	044	810	0008H

For GSM 700 or GSM 850: 8 cells with the following settings:

Transmitter	Level	NCC	BSCC	ARFCN (GSM 700)	ARFCN GSM 850)	Cell Identity
Serving, S1	-60	1	3	439	129	0001H
Neighbour, N1	-85	1	5	445	135	0002H
Neighbour, N2	-80	1	7	451	141	0003H
Neighbour, N3	-75	2	1	457	147	0004H
Neighbour, N4	-55	3	3	463	153	0005H
Neighbour, N5	-50	4	5	469	159	0006H
Neighbour, N6	-45	1	7	475	165	0007H
Neighbour, N7	-40	1	1	481	171	0008H

With the exception of the Cell Allocation, the rest of the parameters for all eight cells are the same as the default settings and default SYSTEM INFORMATION TYPE 1 to 4 message contents for cell A. The Cell Allocation for the serving cell is the same as the default setting for cell A. The Cell Allocations for the neighbour cells need have only one entry, consisting of the ARFCN of that cell's BCCH.

Mobile Station:

The MS is in the active state of a service using asymmetric multislot connection.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

Active state of a service using asymmetric multislot connection.

Test Procedure

This test procedure is performed twice.

MS having a multislot connection with maximum number of timeslots in the downlink and one slot in uplink direction in progress, the SS sends SYSTEM INFORMATION TYPE 5 & 6 (on the second iteration of the test two timeslots are used in the downlink and one in uplink direction the SS also sends SYSTEM INFORMATION TYPE 5bis) on the SACCH/M. All 7 of the BCCHs "on air" are indicated in the BA (N1 is excluded). The MS shall send MEASUREMENT REPORTs back to the SS on every uplink HSCSD channel, and it shall be indicated in these that measurement results for the 4 strongest carriers have been obtained.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

This sequence is performed for execution counter, k = 1, 2.

Since when k = 1, SYSTEM INFORMATION TYPE 5, SYSTEM INFORMATION TYPE 6 and MEASUREMENT REPORT (and when k = 2 an additional SYSTEM INFORMATION TYPE 5b is is included) are sent continuously, a table is not applicable in this test. The interval between 2 successive Layer 2 frames containing MEASUREMENT REPORTs shall not exceed one Layer 2 frame.

Specific Message Contents

SYSTEM INFORMATION TYPE 5

DCS 1 800 and PCS 1 900 begin:

Information Element	value/remark
Neighbour Cells Description	
- Format Identifier	1024 range
- EXT IND	k = 1. Information Element carries complete BA.
	k = 2. Information Element carries only a part of the BA.
- W(i)	k = 1. Non null for ARFCN 514, 530, 549, 602, 665, 686,
	762, 810.
	k = 2. Non null for ARFCN 549, 602, 665, 686, 810.

DCS 1 800 and PCS 1 900 end:

Other bands begin:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	See the table below
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	See the table below
- EXT IND	k = 1. Information Element carries complete BA.
	k = 2. Information Element carries only a part of the BA.

Band		Neighbour Cells Description
	Format Identifier	BCCH Allocation ARFCN
GSM 450	Range 128	259, 260, 261, 262, 263, 264, 265, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292
GSM 480	Range 128	306, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339
GSM 710	Range 128	439, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 453, 454, 455, 457, 457, 458, 459, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473, 475, 477, 481
GSM 750	Range 128	439, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 453, 454, 455, 457, 457, 458, 459, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473, 475, 477, 481
T-GSM810	Range 128	439, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 453, 454, 455, 457, 457, 458, 459, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473, 475, 477, 481
GSM 850	Range 128	129, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 153, 155, 156, 157, 159, 161, 162, 163, 165, 167, 171
GSM 900	Bit map 0	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 38, 40, 44

Other bands end:

SYSTEM INFORMATION TYPE 5bis (Sent only when k = 2)

Information Element	value/remark
Protocol Discriminator	RR management
Message Type	Sys Info 5bis.
Neighbour Cells Description	
- Format	256 range
- EXT IND	k = 2. Information Element carries only a part of the BA.
- W(i)	GSM 450: Channel 0 and 800 belong to the BCCH allocation.
	GSM 480: Channel 0 and 800 belong to the BCCH allocation.
	GSM 710: Channel 438 and 800 belong to the BCCH allocation.
	GSM 750: Channel 438 and 800 belong to the BCCH allocation.
	T-GSM 810: Channel 438 and 800 belong to the BCCH allocation.
	GSM 850: Channel 128 and 800 belong to the BCCH allocation.
	GSM 900: Channel 0 and 800 belong to the BCCH allocation.
	DCS 1 800: Non null ARFCN 20, 514, 530, 549, 762.
	PCS 1 900: Non null ARFCN 20, 514, 530, 549, 762.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	default	
LAI	default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	default	
PLMN permitted	only NCC 1 permitted	

MEASUREMENT REPORT

Information Element	Value/remark
Protocol Discriminator	RR Management
Transaction Identifier	0000
Message Type	MEASUREMENT REPORT
Measurement Results	
BA_used	1
DTX_used	DTX was not used
RXLEV_FULL_SERVING_CELL	See note 1
RXLEV_SUB_SERVING_CELL	See note 1
MEAS_VALID	See note 2
RXQUAL_FULL_SERVING_CELL	See note 1
RXQUAL_SUB_SERVING_CELL	See note 1
NO_NCELL_M	4 neighbour cell measurement results
RXLEV_NCELL_1	See note 1
BCCH_FREQ_NCELL_1	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_1	Corresponds to that of BCCH_FREQ_NCELL_1
RXLEV_NCELL_2	See note 1
BCCH_FREQ_NCELL_2	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_2	Corresponds to that of BCCH_FREQ_NCELL_2
RXLEV_NCELL_3	See note 1
BCCH_FREQ_NCELL_3	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_3	Corresponds to that of BCCH_FREQ_NCELL_3
RXLEV_NCELL_4	See note 1
BCCH_FREQ_NCELL_4	Corresponds to one of N7, N6, S1 or N2
BSIC_NCELL_4	Corresponds to that of BCCH_FREQ_NCELL_4
RXLEV_NCELL_5	00 0000
BCCH_FREQ_NCELL_5	0 0000
BSIC_NCELL_5	00 0000
RXLEV_NCELL_6	00 0000
BCCH_FREQ_NCELL_6	0 0000
BSIC_NCELL_6	00 0000

This message shall contain one report on each of N7, N6, S1 and N2.

NOTE 1: These actual values are not checked.

NOTE 2: The Measurement Valid Indication shall be set to valid within the second SACCH block at the latest.

26.13.1.1.3 Multislot signaling / RR / Measurement / asymmetric / change of the reported subchannel

26.13.1.1.3.1 Conformance requirements

The MS shall continuously send MEASUREMENT REPORT messages, on the main channel, reporting the worst subchannel. One of the other subchannels is made worse than the one originally reported one and the MEASUREMENT REPORTs sent on the main channel are based on the new worst subchannel.

References

3GPP TS $04.08\,/$ 3GPP TS $44.018\,subclauses$ 3.4.1.2 and 9.1.21.

3GPP TS 05.08 subclause 8.4.

26.13.1.1.3.2 Test purpose

- 1) To test that the MS shall report on the main SACCH: RXLEV_FULL and RXLEV_SUB from the main channel and the worst RXQUAL_FULL values and RXQUAL_SUB values from the main channel and the unidirectional channels.
- 2) To test that, when an another subchannel becomes the worst, MEA SUREMENT REPORTs sent on the main channel are based on the new worst subchannel.

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26.13.1.1.3.3 Method of test

Initial Conditions

System Simulator:

For GSM 450 or GSM 480: 1 cell with the following settings:

Transmitter	Level	NCC	BCC	ARFCN (GSM 450)	ARFCN (GSM 480)	Cell Identity
Serving, S1	-60	1	3	260	307	0001H

For GSM 900 or DCS 1 800: 1 cell with the following settings:

Transmitter	Level	NCC	BCC	ARFCN (GSM 900)	ARFCN (DCS 1 800)	Cell Identity
Serving, S1	-60	1	3	002	514	0001H

For GSM 700 or GSM 850: 1 cell with the following settings:

Transmitter	Level	NCC	BCC	ARFCN (GSM 700)	ARFCN (GSM 850)	Cell Identity
Serving, S1	-60	1	3	439	129	0001H

Mobile Station:

The MS is in the active state of a service using asymmetric multislot connection.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

Active state of a service using asymmetric multislot connection.

Test Procedure

MS having a multislot connection with maximum number of timeslots in the downlink and one slot in uplink direction in progress, the SS sends SYSTEM INFORMATION TYPE 5 & 6 on the SACCH/M. The MS shall send MEASUREMENT REPORTs back to the SS on the main channel based on the worst subchannel. The SS allows 2 seconds for the MS to get used to the RF conditions and then records the reported RXQUAL_FULL_SERVING_CELL and RXQUAL_SUB_SERVING_CELL values.

Then an arbitrarily chosen uni-directional subchannel is made the worst from the RX quality point of view by switching off the ciphering in the SS on this channel. The MS shall send MEASUREMENT REPORTs back to the SS on the main channel based on the new worst channel. The SS allows 2 seconds for the MS to get used to the new RF conditions and then records the reported RXQUAL_FULL_SERVING_CELL and RXQUAL_SUB_SERVING_CELL values.

The difference between the RXQUAL values recorded before and after the change in RX quality shall be greater than 3.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

Since SYSTEM INFORMATION TYPE 5, SYSTEM INFORMATION TYPE 6 and MEASUREMENT REPORT are sent continuously, a table is not applicable in this test. The interval between 2 successive Layer 2 frames containing MEASUREMENT REPORTs shall not exceed one Layer 2 frame.

Specific Message Contents

GSM 450 begin:

SYSTEM INFORMATION TYPE 5:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	Range 128
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	The channel numbers 259, 260, 261, 262, 263, 264, 266,
	267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277,
	278, 280, 281, 282, 283, 284, 285, 286, 287, 288, 290,
	291, 292 and 293 belong to the BCCH allocation.
- EXT IND	Information Element carries complete BA.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	default	
LAI	default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	default	
PLMN permitted	NCC 1 permitted	

MEASUREMENT REPORT:

Information Element	value/remark	
Protocol Discriminator	RR Management	
Transaction Identifier	0000	
Message Type	MEASUREMENT REPORT	
Measurement Results		
BA_used	1	
DTX_used	DTX was not used	
RXLEV_FULL_SERVING_CELL	See note 1	
RXLEV_SUB_SERVING_CELL	See note 1	
MEAS_VALID	See note 2	
RXQUAL_FULL_SERVING_CELL	The worst subchannel	
RXQUAL_SUB_SERVING_CELL	The worst subchannel	

GSM 450 end:

GSM 480 begin:

SYSTEM INFORMATION TYPE 5:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	Range 128
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	The channel numbers numbers 306, 307, 308, 309, 310,
	311, 312, 313, 315, 316, 317, 318, 319, 320, 321, 322,
	323, 324, 325, 326, 327, 329, 330, 331, 332, 333, 334,
	335, 337, 338, 339 and 340 belong to the BCCH
	allocation.
- EXT IND	Information Element carries complete BA.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	default	
LAI	default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	default	
PLMN permitted	NCC 1 permitted	

MEASUREMENT REPORT:

Information Element	value/remark	
Protocol Discriminator	RR Management	
Transaction Identifier	0000	
Message Type	MEASUREMENT REPORT	
Measurement Results		
BA_used	1	
DTX_used	DTX was not used	
RXLEV_FULL_SERVING_CELL	See note 1	
RXLEV_SUB_SERVING_CELL	See note 1	
MEAS_VALID	See note 2	
RXQUAL_FULL_SERVING_CELL	The worst subchannel	
RXQUAL_SUB_SERVING_CELL	The worst subchannel	

GSM 480 end:

GSM 900 begin:

SYSTEM INFORMATION TYPE 5:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	bit map 0
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	The channel numbers 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
	16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34,
	35, 36, 38, 40 and 44 belong to the BCCH allocation.
- EXT IND	Information Element carries complete BA.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	default	
LAI	default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	default	
PLMN permitted	NCC 1 permitted	

MEASUREMENT REPORT:

Information Element	value/remark	
Protocol Discriminator	RR Management	
Transaction Identifier	0000	
Message Type	MEASUREMENT REPORT	
Measurement Results		
BA_used	1	
DTX_used	DTX was not used	
RXLEV_FULL_SERVING_CELL	See note 1	
RXLEV_SUB_SERVING_CELL	See note 1	
MEAS_VALID	See note 2	
RXQUAL_FULL_SERVING_CELL	The worst subchannel	
RXQUAL_SUB_SERVING_CELL	The worst subchannel	

GSM 900 end:

DCS 1 800 begin:

SYSTEM INFORMATION TYPE 5:

Information Element	value/remark
Protocol Discriminator	RR management
Message Type	Sys Info 5.
Neighbour Cells Description	
- Format	1024 range
- EXT IND	Information Element carries complete BA.
- W(i)	Non null for ARFCN 514, 530, 549, 602, 665, 686, 762, 810.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	default	
LAI	default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	default	
PLMN permitted	only NCC 1 permitted	

MEASUREMENT REPORT:

Information Element	value/remark
Protocol Discriminator	RR Management
Transaction Identifier	0000
Message Type	MEASUREMENT REPORT
Measurement Results	
BA_used	1
DTX_used	DTX was not used
RXLEV_FULL_SERVING_CELL	See note 1
RXLEV_SUB_SERVING_CELL	See note 1
MEAS_VALID	See note 2
RXQUAL_FULL_SERVING_CELL	The worst subchannel
RXQUAL_SUB_SERVING_CELL	The worst subchannel

DCS 1 800 end:

GSM 700 begin:

SYSTEM INFORMATION TYPE 5:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	128 range
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	The channel numbers 439, 441, 442, 443, 444, 445, 446,
	447, 448, 449, 450, 451, 453, 454, 455, 456, 457, 458,
	459, 460, 461, 463, 465, 466, 467, 469, 471, 472, 473,
	475, 477 and 481 belong to the BCCH allocation
- EXT IND	Information Element carries complete BA.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	Default	
LAI	Default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	Default	
PLMN permitted	NCC 1 permitted	

MEASUREMENT REPORT:

Information Element	value/remark	
Protocol Discriminator	RR Management	
Transaction Identifier	0000	
Message Type	MEASUREMENT REPORT	
Measurement Results		
BA_used	1	
DTX_used	DTX was not used	
RXLEV_FULL_SERVING_CELL	See note 1	
RXLEV_SUB_SERVING_CELL	See note 1	
MEAS_VALID	See note 2	
RXQUAL_FULL_SERVING_CELL	The worst subchannel	
RXQUAL_SUB_SERVING_CELL	The worst subchannel	

GSM 700 end:

GSM 850 begin:

SYSTEM INFORMATION TYPE 5:

Information Element	value/remark
Neighbour Cells Description	
Format Identifier	128 range
BCCH Allocation Sequence	1
BCCH Allocation ARFCN	The channel numbers 129, 131, 132, 133, 134, 135, 136,
	137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148,
	149 150, 151, 153, 155, 156, 157, 159, 161, 162, 163,
	165, 167 and 171 belong to the BCCH allocation.
- EXT IND	Information Element carries complete BA.

SYSTEM INFORMATION TYPE 6:

Information Element	value/ remark	
Protocol Discriminator	RR Management	
Message Type	sys info 6	
Cell Identity	Default	
LAI	Default	
Cell Options		
- Power Control Indicator	Power Control Indicator is set	
- DTX Indicator	MS shall not use DTX	
- Radio_Link_Timeout	Default	
PLMN permitted	NCC 1 permitted	

MEASUREMENT REPORT:

Information Element	value/remark	
Protocol Discriminator	RR Management	
Transaction Identifier	0000	
Message Type	MEASUREMENT REPORT	
Measurement Results		
BA_used	1	
DTX_used	DTX was not used	
RXLEV_FULL_SERVING_CELL	See note 1	
RXLEV_SUB_SERVING_CELL	See note 1	
MEAS_VALID	See note 2	
RXQUAL_FULL_SERVING_CELL	The worst subchannel	
RXQUAL_SUB_SERVING_CELL	The worst subchannel	

GSM 850 end:

NOTE 1: These actual values are not checked.

NOTE 2: The Measurement Valid Indication shall be set to valid within the second SACCH block at the latest.

26.13.1.2 Multislot signalling / RR / Dedicated assignment

26.13.1.2.1 Multislot signalling / RR / Dedicated assignment / successful case

- 26.13.1.2.1.1 Conformance requirements
 - Upon receipt of the ASSIGNMENT COMMAND message, the mobile station initiates a local end release of link layer connections, disconnects the physical channels, commands the switching to the assigned channels and initiates the establishment of lower layer connections (this includes the activation of the channels, their connection and the establishment of the main signalling links).
 - 2) MM-messages and CM-messages using SAPI=0 sent from the mobile station to the network can be duplicated by the data link layer in the following case:
 - a channel change of dedicated channels is required (assignment or handover procedure) and the last layer 2 frame has not been acknowledged by the peer data link layer before the mobile station leaves the old channel;
 - in this case, the mobile station does not know whether the network has received the message correctly. Therefore, the mobile station has to send the message again after the new dedicated channel is established.
 - 3) The MS shall establish the link with the power level specified in the ASSIGNMENT COMMAND message.

The MS shall confirm the power control level that it is currently employing in the uplink SACCH L1 header. The indicated value shall be the power control level actually used by the mobile for the last burst of the previous SACCH period.

4) The MS shall apply the hopping frequencies specified in ASSIGNMENT COMMAND message in the Mobile Allocation IE or the Frequency List IE at the time of accessing the new channel using the last received Cell Allocation.

5) After receipt of the ASSIGNMENT COMMAND the MS shall perform the assignment and return an ASSIGNMENT COMPLETE without undue delay.

References

Conformance requirements 1), 4)	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.3 and 9.1.2.
Conformance requirements 2)	3GPP TS 04.08 / 3GPP TS 44.018 subclause 3.1.4.3.
Conformance requirements 3)	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.3 and 9.1.2; 3GPP TS 05.08, subclause 4.2.
Conformance requirements 5)	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.3 and 9.1.3, 3GPP TS 04.13 subclause 5.2.4.

26.13.1.2.1.2 Test purpose

- 1) To verify that upon receipt of an ASSIGNMENT COMMAND, the MS switches to the channel(s) defined in the ASSIGNMENT COMMAND, establishes the link and sends an ASSIGNMENT COMPLETE message. This is tested for an MS supporting TCH and multislot configuration in the special cases of a transition.
 - 1.1) from non-hopping SDCCH to hopping multislot configuration;
 - 1.2) from hopping multislot configuration to non-hopping multislot configuration;
 - 1.3) from non-hopping multislot configuration to hopping multislot configuration;
 - 1.4) from hopping symmetric multislot configuration to hopping asymmetric multislot configuration, resource upgrading used;
- NOTE: The step 1.5 is applicable to all MS that supports multislot configuration Tx > 1 and Sum > 3.
 - 1.5) from hopping asymmetric multislot configuration to hopping symmetric multislot configuration;
 - 1.6) from hopping multislot configuration to non-hopping multislot configuration, resources downgrading to one TCH/F;
 - 1.7) from non-hopping multislot configuration with one TCH/F to non-hopping multislot configuration, resource upgrading used;
 - 1.8) from non-hopping multislot configuration to hopping multislot configuration, relocating all channels in multislot configuration call without changing the number of TCH/Fs allocated;
 - 1.9) from hopping multislot configuration to non-hopping multislot configuration, partially relocating the channels in multislot configuration call without changing the number of TCH/Fs allocated;
 - 1.10) from non-hopping multislot configuration to hopping multislot configuration, resource downgrading to one TCH/F;
- 2) To verify that an MS supporting TCH and multislot configuration, having sent a MM- or CM message that was not acknowledged on L2 before the channel assignment procedure was initiated and before the MS has left the old channel, repeats that message after completion of the assignment procedure without incrementing N(SD). This is tested in the special case of MM message AUTHENTICATION RESPONSE.
- 3) To verify that an MS supporting TCH and multislot configuration, having received an ASSIGNMENT COMMAND, having sent an SABM frame to establish the main signalling link on the assigned main channel of the multislot configuration, reports the power level(s) specified in the ASSIGNMENT COMMAND message, in the uplink SACCH L1 header of the SACCH message sent int the SACCH period following the transmission of the SABM frame.
- 4) To verify that an MS supporting TCH and multislot configuration, having received an ASSIGNMENT COMMAND, is able in the case of frequency hopping to decode the Mobile Allocation and Frequency List IEs correctly and applies the specified frequencies using the correct Cell Allocation.
- 5) To verify that after receipt of the ASSIGNMENT COMMAND the MS returns an ASSIGNMENT COMPLETE without undue delay.

26.13.1.2.1.3 Method of test

Initial Conditions

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets.

GSM 450:

- BCCH ARFCN = 263.
- Throughout the test, the CA broadcast in System Information 1 is (259, 261, 263, 265, 267, 269, 271, 273, 275, 277).
- Note that the actual CA of the cell contains other frequencies.

GSM 480:

- BCCH ARFCN =310.
- Throughout the test, the CA broadcast in System Information 1 is (306, 308, 310, 312, 314, 316, 318, 320, 322, 324).
- Note that the actual CA of the cell contains other frequencies.

GSM 900:

- BCCH ARFCN =20.
- Throughout the test, the CA broadcast in System Information 1 is (10, 17, 20, 26, 34, 42, 45, 46, 52, 59).
- Note that the actual CA of the cell contains other frequencies.

DCS 1 800:

- BCCH ARFCN =747.
- Throughout the test, the CA broadcast in System Information 1 is (734, 741, 747, 754, 759, 766, 773, 775, 779, 782).
- Note that the actual CA of the cell contains other frequencies.

GSM 700:

- BCCH ARFCN =457.
- Throughout the test, the CA broadcast in System Information 1 is (447, 454, 457, 463, 471, 479, 482, 483, 489, 496).
- Note that the actual CA of the cell contains other frequencies.

GSM 850:

- BCCH ARFCN =147.
- Throughout the test, the CA broadcast in System Information 1 is (137, 144, 147, 153, 161, 169, 172, 173, 179, 186).
- Note that the actual CA of the cell contains other frequencies.

Mobile Station:

- The MS is in the "idle, updated" state with a TMSI allocated.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

"Idle, updated", with TMSI allocated.

Test Procedure

The SS pages the MS and allocates an SDCCH. Each time the MS shall switch to the assigned channel, establish the link and send an ASSIGNMENT COMPLETE message.

Then the SS sends an AUTHENTICATION REQUEST message. The MS shall answer with an AUTHENTICATION RESPONSE message, which is not acknowledged on L2 by the SS. Immediately after the AUTHENTICATION RESPONSE message is received, the SS sends an ASSIGNMENT COMMAND. The MS shall switch to the assigned channel, establish the link with the commanded power level and send as ASSIGNMENT COMPLETE message. Then MS shall repeat the AUTHENTICATION RESPONSE message, with the same N(SD) value.

Then the SS sends an ASSIGNMENT COMMAND, which includes a Starting Time IE. The MS shall react as specified above, but this shall be done at the time specified in Starting Time IE.

The SS initiates the channel release procedure and the main signalling link is released.

Maximum Duration of Test

30 s.

Expected Sequence

An MS supporting Multilsot Class 1 need only perform steps 1..12, 21..24 and 30.

Step	Direction	Message	Comments
1	SS -> MS	PAGING REQUEST TYPE 1	
2	MS -> SS	CHANNEL REQUEST	
3	SS -> MS	IMMEDIATE ASSIGNMENT	See specific message contents.
4	MS -> SS	PAGING RESPONSE	
5	MS -> SS	CLASSMARK CHANGE	Multislot class
6	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
7	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the main signalling link. This message shall be ready to be transmitted before 600 ms after the completion of step 6.
8	SS		The SS checks that the MS reports the requested power level in the layer 1 header of the SACCH message that is sent in the first SACCH multiframe following the SABM.
9	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
10	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the main signalling link. This message shall be ready to be transmitted before 600 ms after the completion of step 9.
11	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
12	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the main signalling link. This message shall be ready to be transmitted before 600 ms after the completion of step 11.
13	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
14	MS -> SS	ASSIGNMENT COMPLETE	
15 (note)	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
16 (note)	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the main signalling link. This message shall be ready to be transmitted before 600 ms after the completion of step 15.
17	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.

Step	Direction	Message	Comments
18	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the
			main signalling link. This message shall be ready to be
			transmitted before 600 ms after the completion of step 17.
19	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
20	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the
			main signalling link. This message shall be ready to be
			transmitted before 600 ms after the completion of step 19.
21		ASSIGNMENT COMMAND	See specific message contents.
22	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the
			main signalling link. This message shall be ready to be
			transmitted before 600 ms after the completion of step 21.
23		AUTHENTIC ATION REQUEST	
24		AUTHENTIC ATION RESPONSE	This message is not L2 acknowledged by the SS.
25	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
26	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the
			main signalling link. This message shall be transmitted
			before 600 ms after the completion of step 25.
27		AUTHENTIC ATION RESPONSE	N(SD) shall be the same as in step 24.
28	SS -> MS	ASSIGNMENT COMMAND	See specific message contents.
29	MS -> SS	ASSIGNMENT COMPLETE	Sent on the correct channel after establishment of the
			main signalling link. This message shall be transmitted at
			the specified Starting Time in step 28.
30		CHANNEL RELEASE	The main signalling link is released.
NOTE:			nultislot configuration Tx > 1 and Sum > 3. Specific
	Message (Contents.	

GSM 450 begin:

Step 3

IMMEDIATE ASSIGNMENT:

As default message contents except	
Channel Description	
- Channel Type	SDCCH/8
TDMA offset	Chosen arbitrarily
- Timeslot Number	N, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Multislot allocation	
- Downlink assignment	Maximum number of times lots supported by the MS
- Uplink assignment	Maximum number of times lots supported by the MS after
	specifying Downlink timeslots
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates all of the CA (broadcast on the BCCH) except
	for the BCCH carrier.
Starting Time	Not included

Step 9

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Maximum number of possible additional bidirectional TCH/Fs and SACCH/Ms substracted by one, minimum being one)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded
	INUTITUUEU

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
 Downlink assignment 	Appropriate for the test. Depending on Multislot class,
	Shall not have maximum number of timeslots.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	assignment
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (271, 273, 281, 283, 285, 287, 289,
	291)
Starting Time	Notincluded

Step 13

Channel Description 2	
 Channel Type and TDMA offset 	11XXX
	(Appropriate number of additional unidirectional TCH/FDs and SACCH/MDs
	or
	Additional bidirectional TCH/F and SACCH/M and
	additional unidirectional TCH/FD and SACCH/MD
	Number of downlink timeslots shall be more than in step 11)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Not included
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (271, 273, 281, 283, 285, 287, 289,
	291)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Not included
Multislot allocation	
- Downlink assignment	Appropriate for the test. Must be more than one.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (271, 273, 281, 283, 285, 287, 289,
	291)
Starting Time	Notincluded

Step 17

Channel Description 2	
 Channel Type and TDMA offset 	10000 (no additional timeslots)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode 271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Appropriate for the test, but more than one timeslot
	allocated and excluding timeslot 0
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Not included

Step 21

Channel Departmention 2	
Channel Description 2	
- Channel Type and TDMA offset	10XXX (Same number of TCH/Fs and timeslot mapping
	as in step 19)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (273, 281, 283)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Indicate same timeslots as step 19.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 28

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequencyhopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (273, 281, 283)
Starting Time	Chosen arbitrarily

GSM 450 end:

GSM 480 begin:

Step 3

IMMEDIATE ASSIGNMENT:

As default message contents except	
Channel Description	
- Channel Type	SDCCH/8
TDMA offset	Chosen arbitrarily
- Timeslot Number	N, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Multislot allocation	
- Downlink assignment	Maximum number of times lots supported by the MS
- Uplink assignment	Maximum number of times lots supported by the MS after
	specifying Downlink timeslots
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates all of the CA (broadcast on the BCCH) except
	for the BCCH carrier.
Starting Time	Not included

Step 9

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Maximum number of possible additional bidirectional TCH/Fs and SACCH/Ms substracted by one, minimum being one)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
	Not included
Starting Time	

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
 Downlink assignment 	Appropriate for the test. Depending on Multislot class,
	Shall not have maximum number of timeslots.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	assignment
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (318, 320, 328, 330, 332, 334, 336,
	338)
Starting Time	Notincluded

Step 13

Channel Description 2	
- Channel Type and TDMA offset	11XXX
	(Appropriate number of additional unidirectional TCH/FDs
	and SACCH/MDs
	or
	Additional bidirectional TCH/F and SACCH/M and
	additional unidirectional TCH/FD and SACCH/MD
	Number of downlink timeslots shall be more than in step
	11)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (318, 320, 328, 330, 332, 334, 336,
	338)
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Must be more than one.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (318, 320, 328, 330, 332, 334, 336,
	338)
Starting Time	Not included

Step 17

Channel Description 2	
 Channel Type and TDMA offset 	10000 (no additional timeslots)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Appropriate for the test, but more than one timeslot
	allocated and excluding timeslot 0
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 21

Channel Description 2	
I I I I I I I I I I I I I I I I I I I	
 Channel Type and TDMA offset 	10XXX (Same number of TCH/Fs and timeslot mapping
	as in step 19)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (320, 328, 330)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Indicate same timeslots as step 19.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 28

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (320, 328, 330)
Starting Time	Chosen arbitrarily

GSM 480 end:

GSM 900 begin:

Step 3

IMMEDIATE ASSIGNMENT:

As default message contents except	
Channel Description	
- Channel Type	SDCCH/8
TDMA offset	Chosen arbitrarily
- Timeslot Number	N, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Multislot allocation	
- Downlink assignment	Maximum number of times lots supported by the MS
- Uplink assignment	Maximum number of times lots supported by the MS after
	specifying Downlink timeslots
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates all of the CA (broadcast on the BCCH) except
	for the BCCH carrier.
Starting Time	Not included

Step 9

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Maximum number of possible additional bidirectional TCH/Fs and SACCH/Ms substracted by one.
	minimum being one)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Channel Mode	
	Data 12.0 khit/a radia intarfaga rata
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Depending on Multislot class,
	Shall not have maximum number of timeslots.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	assignment
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (45, 46, 73, 74, 75, 76, 108, 114)
Starting Time	Not included

Step 13

Channel Description 2	
 Channel Type and TDMA offset 	11XXX
	(Appropriate number of additional unidirectional TCH/FDs
	and SACCH/MDs
	or
	Additional bidirectional TCH/F and SACCH/M and
	additional unidirectional TCH/FD and SACCH/MD
	Number of downlink timeslots shall be more than in step
	11)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	Chosen arbitrality nonin the set (1 to 05)
- Power level	Chappan arbitrarily but with a chapged value
	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (45, 46, 73, 74, 75, 76, 108, 114)
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Not included
Multislot allocation	
- Downlink assignment	Appropriate for the test. Must be more than one.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (45, 46, 73, 74, 75, 76, 108, 114)
Starting Time	Notincluded

Step 17

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Appropriate for the test, but more than one timeslot
	allocated and excluding timeslot 0
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Not included

Step 21

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Same number of TCH/Fs and timeslot mapping
	as in step 19)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
	, ,
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (46, 73 74)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Indicate same timeslots as step 19.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Not included

Step 28

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (46, 73 74)
Starting Time	Chosen arbitrarily

GSM 900 end:

GSM 1800 begin:

Step 3

IMMEDIATE ASSIGNMENT:

As default message contents except	
Channel Description	
- Channel Type	SDCCH/8
TDMA offset	Chosen arbitrarily
- Timeslot Number	N, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Multislot allocation	
- Downlink assignment	Maximum number of times lots supported by the MS
- Uplink assignment	Maximum number of times lots supported by the MS after
	specifying Downlink timeslots
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates all of the CA (broadcast on the BCCH) except
	for the BCCH carrier.
Starting Time	Not included

Step 9

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Maximum number of possible additional bidirectional TCH/Fs and SACCH/Ms substracted by one, minimum being one)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782, 791, 798, 829, 832, 844)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Not included
Multislot allocation	
- Downlink assignment	Appropriate for the test. Depending on Multislot class,
	Shall not have maximum number of timeslots.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	assignment
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (773, 775, 779, 829, 832,
	844)
Starting Time	Notincluded

Step 13

Channel Description 2	
- Channel Type and TDMA offset	11XXX
	(Appropriate number of additional unidirectional TCH/FDs
	and SACCH/MDs
	or
	Additional bidirectional TCH/F and SACCH/M and
	additional unidirectional TCH/FD and SACCH/MD
	Number of downlink timeslots shall be more than in step
	11)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Not included
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (773, 775, 779, 829, 832,
Starting Time	844) Not included
Starting Time	INOLINCIALEA

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Must be more than one.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (773, 775, 779, 829, 832,
	844)
Starting Time	Notincluded

Step 17

Channel Description 2	
 Channel Type and TDMA offset 	10000 (no additional timeslots)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782, 791, 798, 829, 832, 844)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Appropriate for the test, but more than one timeslot
	allocated and excluding timeslot 0.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 21

Channel Departmention 2	
Channel Description 2	
 Channel Type and TDMA offset 	10XXX (Same number of TCH/Fs and timeslot mapping
	as in step 19)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
' 	791, 798, 829, 832, 844)
Channel Mode	,
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (782, 791, 798)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Indicate same timeslots as step 19.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 28

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequencyhopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Not Included
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (782, 791, 798)
Starting Time	Chosen arbitrarily

GSM 1800 end:

GSM 700 begin:

Step 3

IMMEDIATE ASSIGNMENT:

As default message contents except	
Channel Description	
- Channel Type	SDCCH/8
TDMA offset	Chosen arbitrarily
- Timeslot Number	N, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Multislot allocation	
- Downlink assignment	Maximum number of times lots supported by the MS
- Uplink assignment	Maximum number of times lots supported by the MS after
	specifying Downlink timeslots
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates all of the CA (broadcast on the BCCH) except
	for the BCCH carrier.
Starting Time	Notincluded

Step 9

Observat Description 0	
Channel Description 2	
 Channel Type and TDMA offset 	10XXX (Maximum number of possible additional
	bidirectional TCH/Fs and SACCH/Ms substracted by one,
	minimum being one)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	5
	502, 503, 506, 508)
Channel Made	
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Depending on Multislot class,
	Shall not have maximum number of timeslots.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	assignment
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (482, 483, 500, 501, 502, 503, 506,
	508)
Starting Time	Notincluded

Step 13

	1
Channel Description 2	
 Channel Type and TDMA offset 	11XXX
	(Appropriate number of additional unidirectional TCH/FDs
	and SACCH/MDs
	or
	Additional bidirectional TCH/F and SACCH/M and
	additional unidirectional TCH/FD and SACCH/MD
	Number of downlink timeslots shall be more than in step
	11)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
Training Sequence Code	5
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Not included
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (482, 483, 500, 501, 502, 503, 506,
	508)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Must be more than one.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (482, 483, 500, 501, 502, 503, 506,
	508)
Starting Time	Notincluded

Step 17

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
T : : : : : : : : : : : : : : : : : : :	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
•	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Appropriate for the test, but more than one timeslot
	allocated and excluding timeslot 0
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 21

Channel Description 2	
Channel Description 2	
 Channel Type and TDMA offset 	10XXX (Same number of TCH/Fs and timeslot mapping
	as in step 19)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (483, 500, 501)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Indicate same timeslots as step 19.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 28

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequencyhopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (483, 500, 501)
Starting Time	Chosen arbitrarily

GSM 700 end:

GSM 850 begin:

Step 3

IMMEDIATE ASSIGNMENT:

As default message contents except	
Channel Description	
- Channel Type	SDCCH/8
TDMA offset	Chosen arbitrarily
- Timeslot Number	N, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Multislot allocation	
- Downlink assignment	Maximum number of times lots supported by the MS
- Uplink assignment	Maximum number of times lots supported by the MS after
	specifying Downlink timeslots
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates all of the CA (broadcast on the BCCH) except
	for the BCCH carrier.
Starting Time	Not included

Step 9

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Maximum number of possible additional bidirectional TCH/Fs and SACCH/Ms substracted by one, minimum being one)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Depending on Multislot class,
	Shall not have maximum number of timeslots.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	assignment
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (172, 173, 200, 201, 202, 203, 235,
	241)
Starting Time	Notincluded

Step 13

Channel Description 2	
 Channel Type and TDMA offset 	11XXX
	(Appropriate number of additional unidirectional TCH/FDs
	and SACCH/MDs
	or
	Additional bidirectional TCH/F and SACCH/M and
	additional unidirectional TCH/FD and SACCH/MD
	Number of downlink timeslots shall be more than in step
	11)
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	chosen arbitrarity norm the set (1 to 03)
- Power level	Chappen or hitrorily but with a chapped value
	Chosen arbitrarily but with a changed value.
Frequency list IE	Notincluded
Cell Channel Description	Notincluded
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (172, 173, 200, 201, 202, 203, 235,
	241)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not included
Cell Channel Description	Notincluded
Multislot allocation	
- Downlink assignment	Appropriate for the test. Must be more than one.
- Uplink assignment	Appropriate for the test, but as many as in downlink
	direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicates frequencies (172, 173, 200, 201, 202, 203, 235,
	241)
Starting Time	Not included

Step 17

Channel Description 2	
 Channel Type and TDMA offset 	10000 (no additional timeslots)
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Appropriate for the test, but more than one times lot
	allocated and excluding timeslot 0
 Uplink assignment 	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 21

Channel Description 2	
- Channel Type and TDMA offset	10XXX (Same number of TCH/Fs and timeslot mapping
	as in step 19)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Channel Mode	202, 203, 233, 241)
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (173, 200, 201)
Starting Time	Not included

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF Channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Indicate same timeslots as step 19.
- Uplink assignment	Appropriate for the test according to MS Class described
	in Annex B 05.02.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 28

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	10000 (no additional timeslots)
- Timeslot Number	Same as in step 19
- Training Sequence Code	Chosen arbitrarily
- Hopping	Frequency hopping
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Not included
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Indicate frequencies (173, 200, 201)
Starting Time	Chosen arbitrarily

GSM 850 end:

26.13.1.2.2 Multislot signalling / RR / Dedicated assignment / failure / general case

26.13.1.2.2.1 Conformance requirements

On the mobile station side, if a lower layer failure happens on the new channel before the ASSIGNMENT COMPLETE message has been sent, the mobile station deactivates the new channels, reactivates the old channels, reconnects the TCHs if any and triggers the establishment of the main signalling link. It then sends an ASSIGNMENT FAILURE message, cause "protocol error unspecified" on the main DCCH and resumes the normal operation, as if no assignment attempt had occurred. The operational parameters (e.g. ciphering mode) when returning on the old channel are those applied before the procedure.

References

Conformance requirements: 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.3, 9.1.3 and 9.1.4.

26.13.1.2.2.2 Test purpose

- 1) To test that, when the MS fails to seize the new channel, the MS reactivates the old channel.
- 2) This is tested in the special cases of transition:
 - 2.1) from non-hopping SDCCH to hopping symmetric multislot configuration;
 - 2.2) from hopping asymmetric multislot configuration to non-hopping symmetric;
 - 2.3) from non hopping symmetric multislot configuration to non-hopping symmetric multislot configuration, resource upgrading used;
 - 2.4) from non-hopping asymmetric multislot configuration to non-hopping asymmetric multislot configuration, resource upgrading used;
 - 2.5) from hopping symmetric multislot configuration to hopping asymmetric multislot configuration, resource upgrading used;
 - 2.6) from hopping asymmetric multislot configuration to non-hopping multislot configuration, resources downgrading to one TCH/F.

26.13.1.2.2.3 Method of test

Initial Conditions

System Simulator:

1 cell, default parameters.

Mobile Station:

The MS is "idle updated".

Specific PICS statements:

Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

-

Foreseen Final State of the MS

The MS is "idle updated".

Test Procedure

A mobile terminated RR connection is established on an SDCCH. The following is repeated six times with different parameters:

The SS sends an ASSIGNMENT COMMAND message allocating a hopping/non-hopping symmetric/asymmetric multislot configuration with or without resource upgrading/downgrading, but does not activate the assigned channels. The MS shall try to activate the new channel (this is not verified) and shall then reactivate the old channel and trigger the establishment of the main signalling link on the old channel. Then the MS shall send an ASSIGNM ENT FAILURE.

The SS initiates the channel release procedure and the test ends here.

Maximum Duration of Test

30 s.

Expected Sequence

An MS supporting Multilsot Class 1 need only perform steps 1..7, 11..13 and 34.

Step	Direction	Message	Comments
1	SS -> MS	PAGING REQUEST TYPE 1	
2	MS -> SS	CHANNEL REQUEST	
3	SS -> MS	IMMEDIATE ASSIGNMENT	Channel Type: SDCCH/4.
4 5	MS -> SS SS -> MS	PAGING RESPONSE ASSIGNMENT COMMAND	See specific mossage contents below. The MS attempts
5	33 -> 103		See specific message contents below. The MS attempts (and fails) to establish a signalling link on the new channel.
6			The MS re-establishes the signalling link on the old channel.
7 8	MS -> SS SS	ASSIGNMENT FAILURE	RR cause value = "protocol error unspecified". The SS checks that the MS reports the old power level (prior to the Assignment command) in the layer 1 header of the SACCH message that is sent in the first SACCH
0	SS -> MS		multiframe following the SABM.
9 10	MS -> SS	ASSIGNMENT COMMAND ASSIGNMENT COMPLETE	See specific message contents below. Assignment command is successfully performed.
11	SS -> MS	ASSIGNMENT COMMAND	Channel Type = TCH/F, non-hopping, symmetric multislot
			configuration. The MS attempts (and fails) to establish a signalling link on the new channel.
12			The MS re-establishes the signalling link on the old channel.
13	MS -> SS	ASSIGNMENT FAILURE	RR cause value = "protocol error unspecified".
14	SS -> MS	ASSIGNMENT COMMAND	Assignment command to non-hopping, symmetric multislot configuration is successfully performed.
15	MS -> SS	ASSIGNMENT COMPLETE	
16	SS -> MS	ASSIGNMENT COMMAND	Channel Type = TCH/F, non-hopping, symmetric multislot configuration, resource upgrading used. The MS attempts (and fails) to establish a signalling link on the new
17			channel. The MS re-establishes the signalling link on the old
18	MS -> SS	ASSIGNMENT FAILURE	channel. RR cause value = "protocol error unspecified".
19	SS -> MS	ASSIGNMENT COMMAND	Assignment command to non-hopping, asymmetric
20	MS -> SS	ASSIGNMENT COMPLETE	multislot configuration is successfully performed.
21	SS -> MS	ASSIGNMENT COMMAND	Channel Type = TCH/F, non-hopping, asymmetric
			multislot configuration, resource downgrading used. The MS attempts (and fails) to establish a signalling link on the new channel.
22			The MS re-establishes the signalling link on the old channel.
23		ASSIGNMENT FAILURE	RR cause value = "protocol error unspecified".
24		ASSIGNMENT COMMAND	Assignment command to hopping, symmetric multislot configuration is successfully performed.
25			Channel Time TOU/E hopping commentie multiplet
26	SS -> MS	ASSIGNMENT COMMAND	Channel Type = TCH/F, hopping, asymmetric multislot configuration, resource upgrading used. The MS attempts (and fails) to establish a signalling link on the new
27			channel. The MS re-establishes the signalling link on the old
20	MS -> SS		channel. PR cause value - "protocol error upspecified"
28 29	NS -> 55 SS -> MS	ASSIGNMENT FAILURE ASSIGNMENT COMMAND	RR cause value = "protocol error unspecified". Assignment command to hopping, asymmetric multislot
23	30 2 100		configuration is successfully performed.
30	MS -> SS	ASSIGNMENT COMPLETE	
31	SS -> MS	ASSIGNMENT COMMAND	Channel Type = TCH/F, non-hopping, multislot
			configuration, resources downgrading to one TCH/F. The
			MS attempts (and fails) to establish a signalling link on the new channel.
32			The MS re-establishes the signalling link on the old
33	MS -> SS	ASSIGNMENT FAILURE	channel. RR cause value = "protocol error unspecified".
33 34	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents

GSM 450 begin:

Step 5:

ASSIGNMENT COMMAND

Channel Description 2	
•	00000
- Channel Type and TDMA offset	
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
	11 5
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots assigned.
- Uplink assignment	As many timeslots as downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
	Data 10.0 khit/a radia interface rate
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 9:

Channel Departmen 2	
Channel Description 2	00000
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
	Maximum number of times late that MS supports
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Not included

Step 11:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots supported by
	MS assigned.
- Uplink assignment	As many timeslots as in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 14:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 16:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Maximum number of times lots that MS supports.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 19:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	More than one times lot but less than maximum number of
	timeslots is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 21:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 24:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 26:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 29:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
	· · · · · · · · · · · · · · · · · · ·
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 31:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (271, 273, 275, 277, 279, 281,
	283, 285, 287, 289, 291)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

GSM 450 end:

GSM 480 begin:

Step 5:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
Thresher Wannber	5
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots assigned.
- Uplink assignment	As many timeslots as downlink direction.
- Channel set X (1= <x<=8)< td=""><td>•</td></x<=8)<>	•
	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Not included

Step 9:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less times lots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 11:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots supported by
	MS assigned.
- Uplink assignment	As many timeslots as in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 14:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 16:

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Maximum number of times lots that MS supports.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 19:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	More than one times lot but less than maximum number of
	timeslots is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 21:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 24:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 26:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
Training Coguenes Code	5
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
MAIO	
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included
	NULINGUUEU

Step 29:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328,
	330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less times lots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 31:

Channel Description 2	
- Channel Type and TDMA offs et	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

GSM 480 end:

GSM 900 begin:

Step 5:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
	11 0
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots assigned.
- Uplink assignment	As many timeslots as downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 9:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	
	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	, , , , , , , , , , , , , , , , , , ,
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less times lots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Not included
	Normoladea

Step 11:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots supported by
	MS assigned.
- Uplink assignment	As many timeslots as in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 14:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 16:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Maximum number of timeslots that MS supports.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 19:

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114)
Multislot allocation	
- Downlink assignment	More than one times lot but less than maximum number of times lots is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 21:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 24:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 26:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 29:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included
5	

Step 31:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Bit map zero encodes (45, 46, 52, 59, 66, 73, 74, 75, 76,
	108, 114)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

GSM 900 end:

GSM 1800 begin:

Step 5:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
Threstor Number	0
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots assigned.
- Uplink assignment	As many timeslots as downlink direction.
- Channel set X (1= <x<=8)< td=""><td></td></x<=8)<>	
	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Not included
	Normoladoa

Step 9:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782, 791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 11:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Maximum number symmetrical of timeslots supported by
	MS assigned.
- Uplink assignment	As many timeslots as in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 14:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Not included

Step 16:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Maximum number of times lots that MS supports.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 19:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	More than one times lot but less than maximum number of
	timeslots is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 21:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 24:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782, 791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 26:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
Threstor to an ber	-
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
 Downlink assignment 	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
· · · · · · · · · · · · · · · · · · ·	
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 29:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
den onanner Description	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less times lots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 31:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	
- Timesiot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	Use Range 128 to encode (773, 775, 779, 782,
	791, 798, 829, 832, 844)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	,
	Notincluded
Starting Time	Notincluded

GSM 1800 end:

GSM 700 begin:

Step 5:

ASSIGNMENT COMMAND

000
uitable value for multislot configuration, chosen
3
itrarily
osen arbitrarily
hopping channel
r_{1} and r_{2} where r_{1} is the set (0, 1 to N(1)) where N is the
osen arbitrarily from the set (0, 1 to N-1) where N is the
nber of frequencies in the Mobile Allocation IE.
osen arbitrarily from the set (1 to 63)
osen arbitrarily but with a changed value.
Included
B range encodes (482, 483, 489, 496, 498, 500, 501,
2, 503, 506, 508)
, , ,
ximum number of symmetrical timeslots assigned.
many timeslots as downlink direction.
propriate for the test
a, 12.0 kbit/s radio interface rate
itrarily chosen from Cell channel description
included

Step 9:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	5
Training Sequence Code	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	,,,
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td></td></x<=8)<>	
Channel Mode	Appropriate for the test
	Data 42.0 khit/a radia interface rate
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 11:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots supported by
	MS assigned.
- Uplink assignment	As many timeslots as in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 14:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range en∞des (482, 483, 489, 496, 498, 500, 501, 502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 16:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Maximum number of times lots that MS supports.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 19:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	More than one times lot but less than maximum number of
	timeslots is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 21:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 24:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501, 502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 26:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
Tasisis a Osmus as Osda	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501, 502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 29:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	502, 505, 500, 500)
- Downlink assignment	Maximum number of timeslots that MS supports.
3	
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Notincluded

Step 31:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (482, 483, 489, 496, 498, 500, 501,
	502, 503, 506, 508)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

GSM 700 end:

GSM 850 begin:

Step 5:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
T : : O O I	5
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	
	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	202, 203, 233, 241)
- Downlink assignment	Maximum number of symmetrical timeslots assigned.
- Uplink assignment	As many timeslots as downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	
	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 9:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Arbitrarily chosen from Cell channel description
Starting Time	Notincluded

Step 11:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Maximum number of symmetrical timeslots supported by
	MS assigned.
- Uplink assignment	As many timeslots as in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 14:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 16:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Maximum number of times lots that MS supports.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Notincluded
Starting Time	Notincluded

Step 19:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	More than one times lot but less than maximum number of
	timeslots is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 21:

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

Step 24:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Only one times lot is assigned in downlink direction.
- Uplink assignment	Only one times lot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 26:

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
Training Seguence Code	5
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set $(0, 1 \text{ to } N, 1)$ where N is the
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
	202, 203, 233, 241)
Multislot allocation	
- Downlink assignment	Maximum number of times lots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 29:

ASSIGNMENT COMMAND

Channel Description 2	
 Channel Type and TDMA offset 	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1) where N is the
	number of frequencies in the Mobile Allocation IE.
- HSN	Chosen arbitrarily from the set (1 to 63)
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Maximum number of timeslots that MS supports.
- Uplink assignment	Less timeslots assigned than in downlink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Chosen arbitrarily from the Cell channel description
Starting Time	Not included

Step 31:

ASSIGNMENT COMMAND

Channel Description 2	
- Channel Type and TDMA offset	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily
- Training Sequence Code	Chosen arbitrarily
- Hopping	Single RF channel
- ARFCN	the ARFCN of the BCCH carrier
Power Command	
- Power level	Chosen arbitrarily but with a changed value.
	5
Frequency list IE	Not Included
Cell Channel Description	128 range encodes (172, 173, 179, 186, 193, 200, 201,
	202, 203, 235, 241)
Multislot allocation	
- Downlink assignment	Only one timeslot is assigned in downlink direction.
- Uplink assignment	Only one timeslot is assigned in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Channel Mode	
- Mode	Data, 12.0 kbit/s radio interface rate
Mobile Allocation	Not included
Starting Time	Notincluded

GSM 850 end:

26.13.1.3 Test of handover

With the Handover procedure, it is possible to completely alter the channels allocated to a MS. This makes it possible in particular to switch a call in progress from one cell to another. The procedure is always initiated by the network and with the MS in a dedicated mode.

Subclauses 26.13.1.3.1 to 26.13.1.3.5 contain test procedures to be used for executing successful Handover tests in multislot configuration. Table 26.13.1.3-1 contains a summary of the different combinations of parameters that have to be tested, together with a reference to the appropriate test procedure.

From	То	Timing Adv.	Start Time	Syn ?	State of call	Subclause	Exec Counter
Multislot configuration, MAX number of timeslots, no FH	Multislot configuration, MAX number of timeslots, FH	arbitrarily	none	no	U10	26.13.1.3.1	1
Multislot configuration, MIN number of timeslots, no FH	Multislot configuration, MAX number of timeslots, no FH	arbitrarily	none	no	estab (note)	26.13.1.3.2	1
Multislot configuration, MAX number of timeslots, FH	Multislot configuration, MIN number of timeslots, no FH	arbitrarily	none	finely	U10	26.13.1.3.3	1
Multislot configuration, FH	Multislot configuration, FH	arbitrarily	none	finely	estab (note)	26.13.1.3.4	1
Multislot configuration, MIN number of timeslots, FH	Multislot configuration, MAX number of timeslots, no FH	arbitrarily	none	pre	estab (note)	26.13.1.3.5	1
NOTE: The MS is in the "idle, updated" state, with a TMSI allocated and camped on cell A.							

Table 26.13.1.3-1

26.13.1.3.1 Multislot signalling / RR / Handover / successful / active call / non-synchronized

26.13.1.3.1.1 Conformance requirements

1) The MS shall correctly apply the handover procedure in the non-synchronized case when a multislot connection is in progress and when handover is performed from a non-hopping multislot configuration towards a hopping multislot configuration.

References

Conformance requirement 1: 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.4 and 9.1.15. 3GPP TS 04.13 subclause 5.2.6.2.

26.13.1.3.1.2 Test purpose

- 1) To test that when the MS is ordered to make a non-synchronized handover from non-hopping multislot configuration to hopping multislot configuration, it continuously sends access bursts on the main DCCH (and optionally on the SACCH) until it receives a PHYSICAL INFORMATION message from the SS.
- 2) To test that the MS correctly handles the Timing Advance IE in the PHYSICAL INFORMATION message.
- 3) To test that the MS activates the new channels correctly and transmits the HANDOVER COMPLETE message without undue delay.

26.13.1.3.1.3 Method of test

Initial Conditions

System Simulator:

- 2 cells, A and B with same LAI, default parameters except:
- Early classmark sending enabled in SI3 rest octets

GSM 450:

Cell A has:

- BCCH ARFCN = 263

Cell B has:

- BCCH ARFCN = 274

- Cell Allocation = (260, 262, 264, 266, 268, 270, 272, 274, 276, 279, 281, 283, 285, 287, 289, 291)
- The Cell Allocation of Cell B shall be coded using range 256 format.
- The frame numbers of cells A and B shall be different by 100.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 480:

Cell A has:

- BCCH ARFCN = 310

Cell B has:

- BCCH ARFCN = 321
- Cell Allocation = (307, 309, 311, 313, 315, 317, 319, 321, 323, 326, 328, 330, 332, 334, 336, 338)
- The Cell Allocation of Cell B shall be coded using range 256 format.
- The frame numbers of cells A and B shall be different by 100.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 900:

Cell A has:

- BCCH ARFCN = 20

Cell B has:

- BCCH ARFCN = 40
- Cell Allocation = (14, 18, 22, 24, 30, 31, 38, 40, 60, 66, 73, 74, 75, 76, 108, 114)
- The Cell Allocation of Cell B shall be coded using range 256 format.
- The frame numbers of cells A and B shall be different by 100.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

DCS 1 800:

Cell A has:

- BCCH ARFCN = 747

Cell B has:

- BCCH ARFCN = 764
- Cell Allocation = (739, 743, 746, 749, 756, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844)
- The Cell Allocation of Cell B shall be coded using range 256 format.
- The frame numbers of cells A and B shall be different by 100.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 700:

Cell A has:

- BCCH ARFCN = 457

Cell B has:

- BCCH ARFCN = 477
- Cell Allocation = (451, 455, 459, 461, 467, 468, 475, 477, 497, 498, 500, 501, 502, 503, 506, 508)
- The Cell Allocation of Cell B shall be coded using range 256 format.
- The frame numbers of cells A and B shall be different by 100.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 850:

Cell A has:

- BCCH ARFCN = 147

Cell B has:

- BCCH ARFCN = 167
- Cell Allocation = (141, 145, 149, 151, 157, 158, 165, 167, 187, 193, 200, 201, 202, 203, 235, 241)
- The Cell Allocation of Cell B shall be coded using range 256 format.
- The frame numbers of cells A and B shall be different by 100.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

Mobile Station:

- The MS is in the active state (U10) of a service using a multislot connection on cell A.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

-

Foreseen Final State of the MS

The active state (U10) of a multislot connection on cell B.

Test Procedure

The MS is in the active state (U10) of a multislot connection. The SS sends a HANDOVER COMMAND on the main DCCH. The MS shall begin to send access bursts on the new DCCH (and optionally on the SACCH) of the target cell. The SS observes the access bursts and after receiving 10-20 access bursts, the SS sends one PHYSICAL INFORMATION message with a Timing Advance arbitrarily selected. The MS shall activate the new channels that belongs to same multislot configuration. The MS shall establish a signalling link. The MS shall be ready to transmit a HANDOVER COMPLETE message, before 500 ms after the end of the PHYSICAL INFORMATION message, but not before a UA frame has been sent by the SS.

The term "ready to transmit" is defined in 3GPP TS 04.13.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

Step	Direction	Message	Comments
0	MS, SS		The MS and SS are using a maximum multislot
			configuration according to the MS multislot class (highest
			class that MS supports) in non-hopping mode on cell A.
1	SS -> MS	HANDOVER COMMAND	See Specific message contents.
2	MS -> SS	HANDOVER ACCESS	Repeated on every burst of the uplink main DCCH (and
			optionally on the SACCH) until reception of PHYSICAL
			INFORMATION. Handover Reference as included in the
			HANDOVER COMMAND.
3	SS -> MS	PHYSIC AL INFOR MATION	Sent after reception of n HANDOVER ACCESS
			messages. See specific message contents.
4	MS -> SS	SABM	Sent without information field.
5	SS -> MS	UA	
6	MS -> SS	HANDOVER COMPLETE	The message shall be ready to be transmitted before 500
			ms after the completion of step 3.
7	MS, SS		The MS and SS are using a maximum multislot
			configuration according to the MS multislot class (highest
			class that MS supports) in hopping mode on cell B and
			state U10 is reached.

Specific Message Contents

GSM 450

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	274
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List
	IE.
- HSN	Chosen arbitrarily from the set (1,2,63).
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Frequency List after time	
- Frequency List	Use Range 128 to encode the following 15 frequencies
	(260, 262, 264, 266, 268, 270, 272, 276, 279, 281, 283,
	285, 287, 289, 291).

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

GSM 480

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	321
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List IE.
- HSN	Chosen arbitrarily from the set (1,2,63).
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Frequency List after time	
- Frequency List	Use Range 128 to encode the following 15 frequencies (307, 309, 311, 313, 315, 317, 319, 323, 326, 328, 330, 332, 334, 336, 338).

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

P-GSM 900

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	40
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency Channel Sequence IE.
- HSN	Chosen arbitrarily from the set (1,2,63).
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Frequency Channel Sequence after time	
- Frequency Channel Sequence	Allocates the following 15 frequencies (14, 18, 22, 24, 30, 31, 38, 53, 66, 73, 74, 75, 76, 108, 114).

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

DCS 1 800

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	764
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency Short List IE.
- HSN	Chosen arbitrarily from the set (1,2,63).
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Frequency List after time	
- Frequency List	Use Range 256 to encode the following 15 frequencies: (739, 743, 746, 749, 756, 758, 761, 771, 779, 782, 791, 798, 829, 832, 844).

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

GSM 700

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	477
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency Channel Sequence IE.
- HSN	Chosen arbitrarily from the set (1,2,63).
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Frequency Channel Sequence after time	
- Frequency Channel Sequence	Allocates the following 15 frequencies (451, 455, 459, 461, 467, 468, 475, 490, 498, 500, 501, 502, 503, 506, 508).

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

P-GSM 850

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	167
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency Channel Sequence IE.
- HSN	Chosen arbitrarily from the set (1,2,63).
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Frequency Channel Sequence after time	
- Frequency Channel Sequence	Allocates the following 15 frequencies (141, 145, 149,
	151, 157, 158, 165, 180, 193, 200, 201, 202, 203, 235, 241).

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

26.13.1.3.2 Multislot signalling / RR / Handover / successful / call under establishment / non synchronized / resource upgrading

26.13.1.3.2.1 Conformance requirements

- 1) The MS shall correctly apply the handover procedure from non-hopping multislot configuration to non-hopping multislot configuration in the non-synchronized case during call establishment.
- 2) The MS shall activate the new channels that belongs to same multislot configuration correctly, taking into account upgraded resources.
- 3) If during call establishment a Layer 3 MM or CC message just sent by the MS is not Layer 2 acknowledged before the channel change caused by the HANDOVER COMMAND message, the MS shall send the Layer 3 message to the new cell, using the same value in the N(SD) field, after the handover procedure.

References

Conformance requirements: 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.4 and 9.1.15. 3GPP TS 04.13 subclause 5.2.6.2

26.13.1.3.2.2 Test purpose

1) To test that when the MS is ordered to make a non-synchronized handover from non-hopping multislot configuration to a non-hopping multislot configuration, it continuously sends access bursts on the main DCCH (and optionally on the SACCH) until it receives a PHYSICAL INFORMATION message from the SS.

- 2) To test that the MS correctly takes the values of the Timing Advance information element in the PHYSICAL INFORMATION message into account.
- 3) To test that the MS activates the new channels that belongs to same multislot configuration correctly, taking into account upgraded resources and transmits the HANDOVER COMPLETE message without undue delay.
- 4) To test that MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.

26.13.1.3.2.3 Method of test

Initial Conditions

System Simulator:

- 2 cells, A and B with same LAI, default parameters except:
 - Early classmark sending enabled in SI3 rest octets

GSM 450:

Cell A has:

- BCCH ARFCN = 263
- PLMN colour code, NCC = as defaults.
- BS colour code, BCC = as defaults.
- PLMN_PERM = 00001010.

Cell B has:

- BCCH ARFCN = 274
- PLMN colour code, NCC = 3.
- BS colour code, BCC = 0.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 480:

Cell A has:

- BCCH ARFCN = 310
- PLMN colour code, NCC = as defaults.
- BS colour code, BCC = as defaults.
- PLMN_PERM = 00001010.

Cell B has:

- BCCH ARFCN = 321
- PLMN colour code, NCC = 3.
- BS colour code, BCC = 0.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 900:

Cell A has:

- BCCH ARFCN = 20
- PLMN colour code, NCC = as defaults.
- BS colour code, BCC = as defaults.
- PLMN_PERM = 00001010.

Cell B has:

- BCCH ARFCN = 40
- PLMN colour code, NCC = 3.
- BS colour code, BCC = 0.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

DCS 1 800:

Cell A has:

- BCCH ARFCN = 747
- PLMN colour code, NCC = as defaults.
- BS colour code, BCC = as defaults.
- PLMN_PERM = 00001010.

Cell B has:

- BCCH ARFCN = 764
- PLMN colour code, NCC = 3.
- BS colour code, BCC = 0.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

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GSM 700:
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Cell A has:

- BCCH ARFCN = 457
- PLMN colour code, NCC = as defaults.
- BS colour code, BCC = as defaults.
- $PLMN_PERM = 00001010.$

Cell B has:

- BCCH ARFCN = 477
- PLMN colour code, NCC = 3.
- BS colour code, BCC = 0.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

GSM 850:

Cell A has:

- BCCH ARFCN = 147
- PLMN colour code, NCC = as defaults.
- BS colour code, BCC = as defaults.
- $PLMN_PERM = 00001010.$

Cell B has:

- BCCH ARFCN = 167
- PLMN colour code, NCC = 3.
- BS colour code, BCC = 0.
- The timebase of cells A and B shall be such that the edges of their timeslots are not coincident at the antenna connector.

Mobile Station:

- The MS is in the "idle, updated" state, with a TMSI allocated and camped on cell A..

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

"idle, updated" with a TMSI allocated and camped on cell B.

Test Procedure

A Mobile Originating Call is initiated on Cell A. After the MS has sent the SETUP message (and before the last L2 frame carrying the SETUP message is acknowledged by the SS) the SS sends ASSIGNMENT COMMAND message to MS defining used multislot configuration. Mulstislot configuration with one TCH/F is allocated. MS responds with ASSIGNMENT COMPLETE message. Then the SS sends a HANDOVER COMMAND message, ordering the MS to switch to cell B. The MS shall then begin to send access bursts on the new DCCH (and optionally on the SACCH) to cell B. The SS observes the access bursts and after receiving 10-20 access bursts, the SS sends one PHYSICAL INFORMATION message with a Timing Advance as specified in table 26.13.1.3-1 of subclause 26.13.1.3.6. The MS shall activate the channels that belongs to same multislot configuration correctly, taking into account upgraded resources. The MS shall establish a signalling link. The MS shall be ready to transmit a HANDOVER COMPLETE message before 650 ms after the end of the PHYSICAL INFORMATION message, but not before a UA frame has been sent by the SS. The MS shall then again send the SETUP message to the SS, using the same value in the N(SD) field. Finally the SS sends a CHANNEL RELEASE to end the test.

The term "ready to transmit" is defined in 3GPP TS 04.13.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

Step	Direction	Message	Comments
1			An MO call is initiated on cell A.
2	MS -> SS	CHANNEL REQUEST	Establ. Cause = "Originating call, NECI not set to 1
3		IMMEDIATE ASSIGNMENT	
4		CM SER VICE REQUEST	CM Service Type = Mobile Originating Call Establishment.
5	MS -> SS	CLASSMARK CHANGE	Multislot class
6	SS -> MS	AUTHENTIC ATION REQUEST	
7	MS -> SS	AUTHENTIC ATION RESPONSE	
8	SS -> MS	CIPHERING MODE COMMAND	
9	MS -> SS	CIPHERING MODE COMPLETE	
10	MS -> SS	SETUP	Last L2 frame not acknowledged by the SS.
11	SS -> MS	ASSIGNMENT COMMAND	Multislot configuration is sent to MS. Multislot configuration with one TCH/F is allocated. See specific message contents below.
12	MS -> SS	ASSIGNMENT COMPLETE	
13	SS -> MS	HANDOVER COMMAND	See specific message contents. Resource upgrading.
14	MS -> SS	HANDOVER ACCESS	Repeated on every burst of the uplink main DCCH (and optionally on the SACCH) until reception of PHYSICAL INFORMATION. Handover Reference as included in the HANDOVER COMMAND
15	SS -> MS	PHYSIC AL INFOR MATION	Sent after reception of n HANDOVER ACCESS message. Timing Advance as specified in table 26.13.1.3-1 of subclause 26.13.1.3.6.
16	MS -> SS	SABM	Sent without information field.
17	SS -> MS	UA	
18	MS -> SS	HANDOVER COMPLETE	This message shall be ready to be transmitted before 650
			ms after the completion of step 15.
19		SETUP	Same N(SD) as in step 10.
20	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents

GSM 450

Information element	Value/remark
Channel description 2	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Downlink assignment	Only one times lot is allocated in downlink direction.
- Uplink assignment	Only one times lot is allocated in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
Mode of the channel set $X(1=$	Appropriate for on bearer capability chosen for the test.
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	3
- Base Station Colour Code	0
- BCCH Carrier Number	274
Channel Description 2	
- Channel Type	00000
- Timeslot number	Chosen arbitrarily, but not Zero.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	The ARFCN of the BCCH carrier
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lots are assigned than before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

GSM 480

Information element	Value/remark
Channel description 2	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Downlink assignment	Only one timeslot is allocated in downlink direction.
- Uplink assignment	Only one times lot is allocated in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
Mode of the channel set $X(1 = < X < = 8)$	Appropriate for on bearer capability chosen for the test.
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	3
- Base Station Colour Code	0
- BCCH Carrier Number	321
Channel Description 2	
- Channel Type	00000
- Timeslot number	Chosen arbitrarily, but not Zero.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	The ARFCN of the BCCH carrier
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lots are assigned than before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

P-GSM 900

Information element	Value/remark
Channel description 2	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Downlink assignment	Only one times lot is allocated in downlink direction.
- Uplink assignment	Only one times lot is allocated in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
Mode of the channel set X $(1 = < X < = 8)$	Appropriate for on bearer capability chosen for the test.
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	3
- Base Station Colour Code	0
- BCCH Carrier Number	40
Channel Description 2	
- Channel Type	00000
- Timeslot number	Chosen arbitrarily, but not Zero.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	The ARFCN of the BCCH carrier
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lots are assigned than before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

DCS 1 800

Information element	Value/remark
Channel description 2	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequencylist	Omitted
Cell channel description	Omitted
Description of the multislot configuration	Appropriate for the teleservice selected for the test
- Downlink assignment	Only one times lot is allocated in downlink direction.
- Uplink assignment	Only one times lot is allocated in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
Mode of the channel set X $(1 = < X < = 8)$	Appropriate for on bearer capability chosen for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	3
- Base Station Colour Code	0
- BCCH Carrier Number	764
Channel Description 2	
- Channel Type	00000
- Timeslot number	Chosen arbitrarily, but not Zero.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	the ARFCN of the BCCH carrier
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lot are assigned than before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

GSM 700

Information element	Value/remark
Channel description 2	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Downlink assignment	Only one times lot is allocated in downlink direction.
- Uplink assignment	Only one times lot is allocated in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
Mode of the channel set X $(1 = < X < = 8)$	Appropriate for on bearer capability chosen for the test.
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	3
- Base Station Colour Code	0
- BCCH Carrier Number	477
Channel Description 2	
- Channel Type	00000
- Timeslot number	Chosen arbitrarily, but not Zero.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	The ARFCN of the BCCH carrier
Synchronization Indication IE is not included.	
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lots are assigned than before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

GSM 850

Information element	Value/remark
Channel description 2	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Downlink assignment	Only one times lot is allocated in downlink direction.
- Uplink assignment	Only one times lot is allocated in uplink direction.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
Mode of the channel set X $(1 = < X < = 8)$	Appropriate for on bearer capability chosen for the test.
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	3
- Base Station Colour Code	0
- BCCH Carrier Number	167
Channel Description 2	
- Channel Type	00000
- Timeslot number	Chosen arbitrarily, but not Zero.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN Synchronization Indication IE is not included.	The ARFCN of the BCCH carrier
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lots are assigned than before HANDOVER COMMAND
- Uplink assignment	As many timeslots assigned as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND

PHYSICAL INFORMATION

Information Element	value/remarks
As default message contents, except:	
Timing advance	Arbitrarily selected but different to default value.

26.13.1.3.3 Multislot signalling / RR / Handover / successful / active call / finely synchronized / resource downgrading

26.13.1.3.3.1 Conformance requirements

1) The MS shall correctly apply the handover procedure from multislot configuration with frequency hopping to multislot configuration without frequency hopping in the finely synchronized case when a call is in progress. Resources are downgraded in handover procedure.

References

Conformance requirement 1: 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.4, 9.1.14, 9.1.15 and 9.1.16.

26.13.1.3.3.2 Test purpose

- To test that when the MS is ordered to make a finely synchronized handover to a synchronized cell from a hopping multislot configuration to a non-hopping multislot configuration, it sends 4 access bursts on the main DCCH (before completion, additional access bursts may also be sent on the SACCH) and then activates the channels correctly, taking into account power command, downgraded resources and correctly calculating the timing advance to use.
- 2) To test the MS activates the new channels that belongs to same multislot configuration correctly, taking into account downgraded resources and transmits the HANDOVER COMPLETE message without undue delay.

26.13.1.3.3.3 Method of test

Initial Conditions

System Simulator:

- 2 cells, A and B, with same LAI, default parameters, except:

Early classmark sending enabled in SI3 rest octets - The BCCH of cell A is sent k bit periods before the BCCH of cell B. The timing advance in cell A sent to the MS is y bit periods. k and y are selected such that 0 < (2k+y) mod 256 < 60.

GSM 450:

- Cell B has BCCH ARFCN = 274.

GSM 480:

- Cell B has BCCH ARFCN = 321.

P-GSM 900:

- Cell B has BCCH ARFCN = 40.

DCS 1 800:

- Cell B has BCCH ARFCN = 764.

GSM 700:

- Cell B has BCCH ARFCN = 477.

GSM 850:

- Cell B has BCCH ARFCN = 167.

Mobile Station:

- The MS is in the active state (U10) of a service using a multislot connection (on cell A). The MS is using a power level P. Where P is a power level within the supported range of that type of MS.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

The active state (U10) of a multislot connection (on cell B).

Test Procedure

The MS is in the active state (U10) of a multislot connection on cell A. Maximum number of channels supported by the MS in a HSCSD configuration, is allocated. The SS sends a HANDOVER COMMAND on the main DCCH In the case that the MS supports only 1 timeslot in uplink direction the HANDOVER COMMAND'S Uplink assignment shall be one timeslot. The MS shall send 4 access bursts, in 4 successive slots on the new DCCH to cell B. Before completion, additional access bursts may also be sent on the SACCH. Then the MS shall establish a signalling link indicating the correct Timing Advance and power level and send a HANDOVER COMPLETE message.

The MS shall be "ready to transmit" a HANDOVER COMPLETE message before 650 ms after the end of the HANDOVER COMMAND message, but not before a UA frame has been sent by the SS.

The term "ready to transmit" is defined in 3GPP TS 04.13.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

Step	Direction	Message	Comments
0	MS, SS		The MS and SS are using a multislot configuration in hopping mode on cell A. Maximum number of channels supported by the MS in a HSCSD configuration, is allocated
1	SS -> MS	HANDOVER COMMAND	See Specific Message Contents.
2	MS -> SS	HANDOVER ACCESS	See specific message contents. Four messages.
3	MS -> SS	HANDOVER ACCESS	are transmitted to Cell B in 4 successive slots.
4	MS -> SS	HANDOVER ACCESS	on the new DCCH.
5	MS -> SS	HANDOVER ACCESS	Before completion of the 4 access bursts on the new
			DCCH, additional access bursts may also be sent on the SACCH
6	MS -> SS	SABM	Sent without information field.
7	SS -> MS	UA	
8	MS -> SS	HANDOVER COMPLETE	This message shall be ready to be transmitted before 650 ms after the completion of step 1.
9	SS		The header of the next uplink SACCH/M is examined and the Timing Advance and Power Level indications are examined. The correct timing advance shall be indicated. The power level indication shall indicate the power level used in the handover command.
10	MS, SS		The MS and SS are using a multislot configuration in non- hopping mode on cell B

Specific Message Contents

GSM 450

HANDOVER COMMAND

Information Element	value/remark
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	274
Channel Description 2	
- Channel type	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	Single RF Channel.
- ARFCN	274
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by that type of MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Description of the multislot connection	
- Uplink assignment	If possible fewer timeslots are allocated than before
-	HANDOVER COMMAND
- Downlink assignment	Less timeslots are allocated than before HANDOVER
	COMMAND
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 480

HANDOVER COMMAND

Information Element	value/remark
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	321
Channel Description 2	
- Channel type	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	Single RF Channel.
- ARFCN	321
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by that type of MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Description of the multislot connection	
- Uplink assignment	If possible fewer timeslots are allocated than before
	HANDOVER COMMAND
- Downlink assignment	Less timeslots are allocated than before HANDOVER
	COMMAND
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 900

HANDOVER COMMAND

Information Element	value/remark
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	40
Channel Description 2	
- Channel type	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	Single RF Channel.
- ARFCN	40
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by that type of MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Description of the multislot connection	
- Uplink assignment	If possible fewer timeslots are allocated than before
	HANDOVER COMMAND
- Downlink assignment	Less times lots are allocated than before HANDOVER
	COMMAND
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test

Information Element	value/remark
As default message contents except:	
Handover Reference	
- Value	Same as HANDOVER COMMAND

DCS 1 800

HANDOVER COMMAND

Information Element	value/remark
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	764
Channel Description 2	
- Channel type	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	Single RF Channel.
- ARFCN	764
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by that type of MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Description of the multislot connection	
- Uplink assignment	Same as before HANDOVER COMMAND or less
	timeslots are allocated than before HANDOVER
	COMMAND
- Downlink assignment	Less times lots are allocated than before HANDOVER
	COMMAND
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 700

HANDOVER COMMAND

Information Element	value/remark
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	477
Channel Description 2	
- Channel type	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	Single RF Channel.
- ARFCN	477
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by that type of MS.
Synchronization Indication	
 Report Observed Time Difference 	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Description of the multislot connection	
- Uplink assignment	If possible fewer timeslots are allocated than before
	HANDOVER COMMAND
- Downlink assignment	Less times lots are allocated than before HANDOVER
	COMMAND
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test

Information Element	value/remark
As default message contents except:	
Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 850

HANDOVER COMMAND

Information Element	value/remark
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	167
Channel Description 2	
- Channel type	00000
- Timeslot Number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	Single RF Channel.
- ARFCN	167
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by that type of MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Description of the multislot connection	
- Uplink assignment	If possible fewer timeslots are allocated than before
	HANDOVER COMMAND
- Downlink assignment	Less times lots are allocated than before HANDOVER
-	COMMAND
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

26.13.1.3.4 Multislot signalling / RR / Handover / successful / call under establishment / finely synchronized / relocation of channels

26.13.1.3.4.1 Conformance requirements

- 1) The MS shall correctly apply the handover procedure from hopping, multislot configuration, finely synchronized case to hopping, multislot configuration, synchronized case during call establishment.
- 2) The MS shall not change number of channels in multislot configuration but the place of each channel is changed.
- 3) If during call establishment a Layer 3 MM or CC message just sent by the MS is not Layer 2 acknowledged before the channel change caused by the HANDOVER COMMAND message, the MS shall send the Layer 3 message to the new cell, using the same value in the N(SD) field, after the handover procedure.

References

Conformance requirements: 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.4 and 9.1.15. 3GPP TS 04.13 subclause 5.2.6.2.

26.13.1.3.4.2 Test purpose

 To test that when the MS is ordered to make a finely synchronized handover to a synchronized cell, it sends 4 access bursts on the main DCCH (before completion, additional access bursts may also be sent on the SACCH) and then activates the channel correctly, taking into account power command, new order of channels in multislot configuration and correctly calculating the timing advance to use. Handover is done from hopping multislot configuration to hopping multislot configuration, number of channels in multislot configuration is not changed but the place of each channel is changed.

- 2) To test that MS correctly retransmits Layer 3 MM or CC messages, that were not acknowledged by Layer 2 before the Handover, after completion of the Handover.
- 3) To verify the MS transmits the HANDOVER COMPLETE message without undue delay.

26.13.1.3.4.3 Method of test

Initial Conditions

System Simulator:

- 2 cells, A and B, with same LAI, default parameters, except:
 - Early classmark sending enabled in SI3 rest octets.
- The BCCH of cell A is sent k bit periods before the BCCH of cell B. The timing advance in cell A sent to the MS is y bit periods. k and y are selected such that $0 < (2k + y) \mod 256 < 60$.
- The frame numbers of cells A and B shall be different by 100.

GSM 450:

Cell A has:

- BCCH ARFCN = 263.
- Cell Allocation = (259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291).

Cell B has:

- BCCH ARFCN = 274.
- Cell Allocation = (260, 262, 264, 266, 268, 270, 272, 274, 276, 279, 281, 283, 285, 287, 289, 291).

GSM 480:

Cell A has:

- BCCH ARFCN = 310.
- Cell Allocation = (306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338).

Cell B has:

- BCCH ARFCN = 321.
- Cell Allocation = (307, 309, 311, 313, 315, 317, 319, 321, 323, 326, 328, 330, 332, 334, 336, 338).

GSM 900:

Cell A has:

- BCCH ARFCN = 20.
- Cell Allocation = (10, 17, 20, 26, 34, 42, 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114).

Cell B has:

- BCCH ARFCN = 40.
- Cell Allocation = (14, 18, 22, 24, 30, 31, 38, 40, 60, 66, 73, 74, 75, 76, 108, 114).

DCS 1 800:

Cell A has:

- BCCH ARFCN = 747.
- Cell Allocation = (734, 741, 747, 754, 759, 762, 766, 767, 773, 775, 779, 782, 791, 798, 829, 832, 844).
 Cell B has:
- BCCH ARFCN = 764.
- Cell Allocation = (739, 743, 746, 749, 756, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844).

GSM 700:

Cell A has:

- BCCH ARFCN = 457.
- Cell Allocation = (447, 454, 457, 463, 471, 479, 482, 483, 489, 496, 498, 500, 501, 502, 503, 506, 508).

Cell B has:

- BCCH ARFCN = 477.
- Cell Allocation = (451, 455, 459, 461, 467, 468, 475, 477, 497, 498, 500, 501, 502, 503, 506, 508).

GSM 850:

Cell A has:

- BCCH ARFCN = 147.
- Cell Allocation = (137, 144, 147, 153, 161, 169, 172, 173, 179, 186, 193, 200, 201, 202, 203, 235, 241).
 Cell B has:

Cell B has:

- BCCH ARFCN = 167.
- Cell Allocation = (141, 145, 149, 151, 157, 158, 165, 167, 187, 193, 200, 201, 202, 203, 235, 241).

Mobile Station:

- The MS is in the "idle, updated" state, with a TMSI allocated and camped on cell A.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

"Idle, updated" with TMSI allocated and camped on cell B.

Test Procedure

A Mobile Originating Call is initiated on cell A. After the MS has sent the SETUP message (and before the last L2 frame carrying the SETUP message is acknowledged by the SS) the SS sends ASSIGNMENT COMMAND message to MS defining used multislot configuration. MS responds with ASSIGNMENT COMPLETE message. Then the SS sends a HANDOVER COMMAND message, ordering the MS to switch to cell B. After the handover timeslots are relocated. Timeslots are also overlapped (this is described in specific message contents). The MS shall then send 4 access bursts, in successive slots on the new DCCH to cell B. Before completion of the 4 access bursts on the new DCCH, additional access bursts may also be sent on the SACCH. Then the MS shall establish a signalling link indicating the correct timing advance and power level (number of channels in multislot configuration is not changed but the place of each channel is changed) and send a HANDOVER COMPLETE message. The MS shall be "ready to transmit" the HANDOVER COMPLETE message before 1500 ms after the end of the HANDOVER COMMAND message, but not before a UA frame has been sent by the SS. The MS shall then again send the SETUP message to the SS, using the same value in the N(SD) field. Finally the SS sends a CHANNEL RELEASE to end the test.

The term "ready to transmit" is defined in 3GPP TS 04.13.

Maximum Duration of Test

5 minutes, including 1 minute for any necessary operator actions.

Expected Sequence

Step	Direction	Message	Comments
1			An MO call is initiated.
2	MS -> SS	CHANNEL REQUEST	Establ. Cause = "Originating call, NECI not set to 1"
3	SS -> MS	IMMEDIATE ASSIGNMENT	See Specific Message contents.
4	MS -> SS	CM SER VICE REQUEST	CM Service Type = Mobile Originating Call
			Establishment.
5	MS -> SS	CLASSMARK CHANGE	Multislot class
6	SS -> MS	AUTHENTIC ATION REQUEST	
7	MS -> SS	AUTHENTIC ATION RESPONSE	
8	SS -> MS	CIPHERING MODE COMMAND	
9	MS -> SS	CIPHERING MODE COMPLETE	
10	MS -> SS	SETUP	Last L2 frame not acknowledged by the SS.
11	SS -> MS	ASSIGNMENT COMMAND	Multislot configuration is sent to MS. See specific
10	MO 00		message contents below.
12	MS -> SS	ASSIGNMENT COMPLETE	Lest 1.0 from a standard data di hutha 0.0, 0 ma N(0D)
13	MS -> SS	SETUP	Last L2 frame not acknowledged by the SS. Same N(SD)
11	SS -> MS		as in step 8. See Specific Message Contents below.
14 15	MS -> SS	HANDOVER COMMAND HANDOVER ACCESS	See Specific Message Contents below.
15	MS -> SS MS -> SS	HANDOVER ACCESS	
17	MS -> SS	HANDOVER ACCESS	See Specific message contents.
18	MS -> SS	HANDOVER ACCESS	Four messages are transmitted to cell B in 4 successive
10	1010 -> 00	HANDOVER ACCESS	slots on the new DCCH.
			Before completion of the 4 access bursts on the new
			DCCH, additional access bursts may also be sent on the
			SACCH.
19	MS -> SS	SABM	Sent without information field.
20	SS -> MS	UA	
21	MS -> SS	HANDOVER COMPLETE	The message shall be ready to be transmitted before
			1500 ms after the completion of step 12.
22	SS		The header of the next uplink SACCH/M is examined and
			the Timing Advance and Power Level indications are
			examined. The correct timing advance shall be indicated.
			The power level indication shall indicate the power level
			used in the handover command.
23	MS -> SS	SETUP	Same N(SD) as in step 8.
24	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents

DCS 1 800:

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequencylist	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test
- Downlink assignment	Appropriate for the test
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

IMMEDIATE ASSIGNMENT

Information Element	value/remark
As default message contents except:	
Channel Description	Channel Description.
- Channel Type	SDCCH/8
- TDMA offset	As default message contents.
- Timeslot number	Arbitrary value, but not zero.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Mobile
	Allocation.
- HSN	Chosen arbitrarily from the set.
	(1,2,63).
Mobile Allocation	Indicates all of the CA of cell A except for the BCCH
	frequency.

HANDOVER COMMAND

Information Element	value/remark
As default message contents except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	764
Channel Description 2	
- Channel Type	00000
- TDMA offset	Chosen arbitrarily.
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List
	IE.
- HSN	Zero (this gives cyclic hopping).
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by the MS.
Synchronization Indication	and what in a range supported by the Me.
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Frequency List after time	
- Frequency List	Use Range 512 to encode the complete CA of Cell B.
Description of the multislot configuration	
- Downlink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Uplink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
- Onamerser x (1-xx-0)	האלויסאוומוב וסו וווב ובפוי

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 450:

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test
- Downlink assignment	Appropriate for the test
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

IMMEDIATE ASSIGNMENT

Information Element	value/remark
As default message contents except:	
Channel Description	Channel Description.
- Channel Type	SDCCH/8
- TDMA offset	As default message contents.
- Timeslot number	Arbitrary value, but not zero.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Mobile
	Allocation.
- HSN	Chosen arbitrarily from the set (1,2,63).
Mobile Allocation	Indicates all of the CA of cell A except for the BCCH
	frequency.

HANDOVER COMMAND

Information Element	value/remark
As default message contents except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	274
Channel Description 2	
- Channel Type	00000
- TDMA offset	Chosen arbitrarily.
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List
	IE.
- HSN	Zero (this gives cyclic hopping).
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	chosch arbitrarity norm the range (0, 1200).
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by the MS.
Synchronization Indication	and within the range supported by the Mo.
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Frequency List after time	ignore out of range unning advance.
- Frequency List	Use Range 512 to encode the complete CA of Cell B.
Description of the multislot configuration	Use Range 512 to encode the complete OA of Cell B.
- Downlink assignment	For Type 1 MS timeslots are shifted one position to right
- Downlink assignment	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Uplink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
Chapped a at $V(1 - 4V - 9)$	
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 480:

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test
- Downlink assignment	Appropriate for the test
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

IMMEDIATE ASSIGNMENT

Information Element	value/remark
As default message contents except:	
Channel Description	Channel Description.
- Channel Type	SDCCH/8
- TDMA offset	As default message contents.
- Timeslot number	Arbitrary value, but not zero.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Mobile
	Allocation.
- HSN	Chosen arbitrarily from the set (1,2,63).
Mobile Allocation	Indicates all of the CA of cell A except for the BCCH
	frequency.

HANDOVER COMMAND

Information Element	value/remark
As default message contents except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	321
Channel Description 2	
- Channel Type	00000
- TDMA offset	Chosen arbitrarily.
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List
	IE.
- HSN	Zero (this gives cyclic hopping).
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by the MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Frequency List after time	
- Frequency List	Use Range 512 to encode the complete CA of Cell B.
Description of the multislot configuration	5
- Downlink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Uplink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.
	TI T

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 900:

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test
- Downlink assignment	Appropriate for the test
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X $(1 = < X < = 8)$	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

IMMEDIATE ASSIGNMENT

Information Element	value/remark
As default message contents except:	
Channel Description	Channel Description.
- Channel Type	SDCCH/8
- TDMA offset	As default message contents.
- Timeslot number	Arbitrary value, but not zero.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Mobile
	Allocation.
- HSN	Chosen arbitrarily from the set (1,2,63).
Mobile Allocation	Indicates all of the CA of cell A except for the BCCH
	frequency.

HANDOVER COMMAND

As default message contents except: Cell Description - Network Colour Code - Base Station Colour Code - BCCH Carrier Number Channel Description 2 - Channel Type - TDMA offset - Timeslot number - Training Sequence Code - Hopping	
Cell Description 1 - Network Colour Code 1 - Base Station Colour Code 5 - BCCH Carrier Number 40 Channel Description 2 00000 - TDMA offset Chosen arbitrarily. - Timeslot number A suitable value for multislot configuration, chosen arbitrarily. - Training Sequence Code Chosen arbitrarily. - Hopping RF hopping channel.	
 Base Station Colour Code BCCH Carrier Number Channel Description 2 Channel Type Chosen arbitrarily. Timeslot number A suitable value for multislot configuration, chosen arbitrarily. Training Sequence Code Hopping RF hopping channel. 	
- BCCH Carrier Number 40 Channel Description 2 00000 - Channel Type 00000 - TDMA offset Chosen arbitrarily. - Timeslot number A suitable value for multislot configuration, chosen arbitrarily. - Training Sequence Code Chosen arbitrarily. - Hopping RF hopping channel.	
Channel Description 2 00000 - Channel Type 00000 - TDMA offset Chosen arbitrarily. - Timeslot number A suitable value for multislot configuration, chosen arbitrarily. - Training Sequence Code Chosen arbitrarily. - Hopping RF hopping channel.	
- Channel Type 00000 - TDMA offset Chosen arbitrarily. - Timeslot number A suitable value for multislot configuration, chosen arbitrarily. - Training Sequence Code Chosen arbitrarily. - Hopping RF hopping channel.	
- TDMA offset Chosen arbitrarily. - Timeslot number A suitable value for multislot configuration, chosen arbitrarily. - Training Sequence Code Chosen arbitrarily. - Hopping RF hopping channel.	
 Timeslot number Training Sequence Code Hopping A suitable value for multislot configuration, chosen arbitrarily. Chosen arbitrarily. RF hopping channel. 	
- Training Sequence Code arbitrarily. - Hopping RF hopping channel.	
- Training Sequence Code Chosen arbitrarily. - Hopping RF hopping channel.	
- Hopping RF hopping channel.	
- Hopping RF hopping channel.	
- MAIO Chosen arbitrarily from the set (0, 1 to N-1), where	N is
the number of frequencies encoded in the Frequencies	
l lie. '	,
- HSN Zero (this gives cyclic hopping).	
Handover Reference	
- Value Chosen arbitrarily from the range (0, 1255).	
Power command	
- Power Level Arbitrarily chosen, but different to the one already in	use
and within the range supported by the MS.	
Synchronization Indication	
- Report Observed Time Difference Shall not be included.	
- Synchronization Indication "Synchronized".	
- Normal Cell Indication Ignore out of range timing advance.	
Frequency List after time	
- Frequency List Use Range 512 to encode the complete CA of Cell	В.
Description of the multislot configuration	
- Downlink assignment For Type 1 MS timeslots are shifted one position to	right
if timeslot 7 is not used. If timeslot 7 is used then time	neslots
are shifted one position to left. For type 2 MS times	ots
are shifted one position to right taking into account	ules
of multislot capability described in 05.02 Annex B.	
- Uplink assignment For Type 1 MS timeslots are shifted one position to	right
if timeslot 7 is not used. If timeslot 7 is used then timeslot 7	neslots
are shifted one position to left. For type 2 MS times	ots
are shifted one position to right taking into account	
of multislot capability described in 05.02 Annex B.	
- Channel set X (1= <x<=8) appropriate="" for="" td="" test.<="" the=""><td></td></x<=8)>	

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 700:

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test
- Downlink assignment	Appropriate for the test
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set $X(1 = < X < = 8)$	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

IMMEDIATE ASSIGNMENT

Information Element	value/remark
As default message contents except:	
Channel Description	Channel Description.
- Channel Type	SDCCH/8
- TDMA offset	As default message contents.
- Timeslot number	Arbitrary value, but not zero.
 Training Sequence Code 	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Mobile
	Allocation.
- HSN	Chosen arbitrarily from the set (1,2,63).
Mobile Allocation	Indicates all of the CA of cell A except for the BCCH
	frequency.

HANDOVER COMMAND

Information Element	value/remark
As default message contents except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	477
Channel Description 2	
- Channel Type	00000
- TDMA offset	Chosen arbitrarily.
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List
- HSN	Zero (this gives cyclic hopping).
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	0
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by the MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Frequency List after time	ignoro outor lango uning autonool
- Frequency List	Use Range 512 to encode the complete CA of Cell B.
Description of the multislot configuration	
- Downlink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Uplink assignment	For Type 1 MS timeslots are shifted one position to right
- 1	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

GSM 850:

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test
- Downlink assignment	Appropriate for the test
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

IMMEDIATE ASSIGNMENT

Information Element	value/remark
As default message contents except:	
Channel Description	Channel Description.
- Channel Type	SDCCH/8
- TDMA offset	As default message contents.
- Timeslot number	Arbitrary value, but not zero.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Mobile
	Allocation.
- HSN	Chosen arbitrarily from the set (1,2,63).
Mobile Allocation	Indicates all of the CA of cell A except for the BCCH
	frequency.

HANDOVER COMMAND

Information Element	value/remark
As default message contents except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	167
Channel Description 2	
- Channel Type	00000
- TDMA offset	Chosen arbitrarily.
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily.
- Hopping	RF hopping channel.
- MAIO	Chosen arbitrarily from the set (0, 1 to N-1), where N is
	the number of frequencies encoded in the Frequency List
- HSN	Zero (this gives cyclic hopping).
Handover Reference	
- Value	Chosen arbitrarily from the range (0, 1255).
Power command	
- Power Level	Arbitrarily chosen, but different to the one already in use
	and within the range supported by the MS.
Synchronization Indication	
- Report Observed Time Difference	Shall not be included.
- Synchronization Indication	"Synchronized".
- Normal Cell Indication	Ignore out of range timing advance.
Frequency List after time	ignolo out of range uning advance.
- Frequency List	Use Range 512 to encode the complete CA of Cell B.
Description of the multislot configuration	
- Downlink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Uplink assignment	For Type 1 MS timeslots are shifted one position to right
	if timeslot 7 is not used. If timeslot 7 is used then timeslots
	are shifted one position to left. For type 2 MS timeslots
	are shifted one position to right taking into account rules
	of multislot capability described in 05.02 Annex B.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test.</td></x<=8)<>	Appropriate for the test.

HANDOVER ACCESS

Information Element	value/remark
As default message contents except: Handover Reference	
- Value	Same as HANDOVER COMMAND

26.13.1.3.5 Multislot signalling / RR /Handover / successful / call under establishment / presynchronized / resource upgrading

If an MS does not implement the pre-synchronized handover procedure correctly then calls may fail.

If an MS does not report the observed time difference between cells correctly then pseudo synchronized handovers might not be possible for any MS.

26.13.1.3.5.1 Conformance requirements

1) If during call establishment a Layer 3 MM or CC message just sent by the MS is not Layer 2 acknowledged before the channel change caused by the HANDOVER COMMAND message, the MS shall send the Layer 3 message to the new cell, using the same value in the N(SD) field, after the handover procedure.

- 2) When the Timing Advance information element is included in the HANDOVER COMMAND, the MS shall access the new cell with the timing advance included in the Timing Advance IE.
- 3) The MS shall be ready to transmit the HANDOVER COMPLETE message within 650 ms of the end of the HANDOVER COMMAND message.
- 4) When requested to do so in the HANDOVER COMMAND message, the MS shall return the Mobile Time Difference IE in the HANDOVER COMPLETE message indicating the sum of the observed time difference between the cells and the timing advance used on the old cell.

References

Conformance requirement 1:	3GPP TS 04.08 / 3GPP TS 44.018, subclauses 3.1.4.3 and 9.1.5.
Conformance requirement 2:	3GPP TS 05.10, subclause 6.6, 3GPP TS 04.08 subclause 9.1.16.
Conformance requirement 3:	3GPP TS 04.13, subclause 5.2.6.1.
Conformance requirement 4:	3GPP TS 04.08 / 3GPP TS 44.018, subclause 10.5.2.39.

26.13.1.3.5.2 Test purpose

- To verify that when the MS is ordered to make a pre-synchronized handover from hopping multislot configuration to non-hopping multislot configuration, it sends 4 access bursts on the main DCCH (before completion, additional access bursts may also be sent on the SACCH) and then activates the channel correctly and correctly calculates the time to transmit.
- 2) To test that the MS activates the new channels that belong to same multislot configuration correctly, taking into account upgraded resources and transmits the HANDOVER COMPLETE message without undue delay.

26.13.1.3.5.3 Method of test

Initial Conditions

System Simulator:

- 2 cells, A and B, with same LAI, default parameters, except:
 - Early classmark sending enabled in SI3 rest octets.
- The BCCH of cell A is sent k bit periods before the BCCH of cell B.

Mobile Station:

- The MS is in the "idle, updated" state, with a TMSI allocated and camped on cell A.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen Final State of the MS

"Idle, updated" with TMSI allocated and camped on cell B.

Test Procedure

A Mobile Originating Call is initiated. The SS sends an IMMEDIATE ASSIGNMENT message allocating an SDCCH/4. The MS is commanded to use a timing advance of y bit periods on cell A. After the MS has sent the SETUP message (and before the last L2 frame carrying the SETUP message is acknowledged by the SS) the SS sends ASSIGNMENT COMMAND message to MS specifying used multislot configuration. MS responds by sending ASSIGNMENT COMPLETE message to SS. Then the SS sends a HANDOVER COMMAND, ordering the MS to switch to cell B. The MS shall then send 4 access bursts, at the commanded power level, in 4 successive slots of the new DCCH to cell B. Before completion of the 4 access bursts on the new DCCH, additional access bursts may also be

sent on the SACCH. Then the MS shall establish a signalling link using the correct timing advance and send a HANDOVER COMPLETE message. The MS shall be ready to transmit the HANDOVER COMPLETE message before 650 ms after the end of the HANDOVER COMMAND message, but not before a UA frame has been sent by the SS.

The term "ready to transmit" is defined in 3GPP TS 04.13.

The MS shall then again send the SETUP message to the SS, using the same value in the N(SD) field. Finally the SS sends a CHANNEL RELEASE to end the test.

Maximum Duration of Test

20 s.

Expected Sequence

Step	Direction	Message	Comments
1			An MO call is initiated.
2	MS -> SS	CHANNEL REQUEST	
3	SS -> MS	IMMEDIATE ASSIGNMENT	to an SDCCH/4.
4	MS -> SS	CM SER VICE REQUEST	
5	MS -> SS	CLASSMARK CHANGE	Multislot class
6	SS -> MS	AUTHENTIC ATION REQUEST	
7	MS -> SS	AUTHENTIC ATION RESPONSE	
8	SS -> MS	CIPHERING MODE COMMAND	
9	MS -> SS	CIPHERING MODE COMPLETE	
10	MS -> SS	SETUP	Last L2 frame not acknowledged by the SS.
11	SS -> MS	ASSIGNMENT COMMAND	Multislot configuration is sent to MS. Multislot
			configuration shall not have the maximum number of
			timeslots allocated. See specific message contents
			below.
12	MS -> SS	ASSIGNMENT COMPLETE	
13	MS -> SS	SETUP	Last L2 frame not acknowledged by the SS. Same N(SD)
-			as in step 10.
14	SS -> MS	HANDOVER COMMAND	See specific message contents below.
15	MS -> SS	HANDOVER ACCESS	Handover Reference as included in the
16	MS -> SS	HANDOVER ACCESS	HANDOVER COMMAND
17	MS -> SS	HANDOVER ACCESS	
18	MS -> SS	HANDOVER ACCESS	Before completion of the 4 access bursts on the new
			DCCH, additional access bursts may also be sent on the
			SACCH.
19	MS -> SS	SABM	Sent without information field.
20	SS -> MS	UA	
21	MS -> SS	HANDOVER COMPLETE	This message shall be ready to be transmitted before 650
			ms after the completion of step 14. Shall include the
			Mobile Time Difference IE with value (2k+y) mod
			2,097,152 half bit periods. A tolerance of ± 2 half bit
			periods is allowed.
22	MS -> SS	SETUP	Same N(SD) as in step 10
23	SS	-	The SS checks that the timing advance reported in the
			layer 1 header of the SACCH/M message that is sent in
			the first SACCH/M multiframe following the SABM is 9 bit
			periods.
24	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

Specific Message Contents

GSM 450

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test, shall not be the maximum number
	of timeslots.
- Downlink assignment	Appropriate for the test, but shall not be the maximum
	number of timeslots.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	274
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	Chosen arbitrarily
Synchronization Indication.	pre-synchronized; ROT=1; NCI=0.
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More timeslots are allocated than before HANDOVER COMMAND
- Uplink assignment	Same as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Timing Advance	9 bit periods.

GSM 480

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test, shall not be the maximum number
	of timeslots.
 Downlink assignment 	Appropriate for the test, but shall not be the maximum
	number of timeslots.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks	
As default message contents, except:		
Cell Description		
- Network Colour Code	1	
- Base Station Colour Code	5	
- BCCH Carrier Number	321	
Channel Description 2		
- Channel Type	00000	
- Timeslot number	A suitable value for multislot configuration, chosen	
	arbitrarily.	
- Training Sequence Code	Chosen arbitrarily	
- Hopping	0 (= no hopping)	
- ARFCN	Chosen arbitrarily	
Synchronization Indication.	pre-synchronized; ROT=1; NCI=0.	
Channel Mode IE is not included.		
Description of a multislot configuration:		
- Downlink assignment	More times lots are allocated than before HANDOVER	
	COMMAND	
- Uplink assignment	Same as before HANDOVER COMMAND	
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND	
Timing Advance	9 bit periods.	

P-GSM 900

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test, shall not be the maximum number
	of timeslots.
- Downlink assignment	Appropriate for the test, but shall not be the maximum
	number of timeslots.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks	
As default message contents, except:		
Cell Description		
- Network Colour Code	1	
- Base Station Colour Code	5	
- BCCH Carrier Number	40	
Channel Description 2		
- Channel Type	00000	
- Timeslot number	A suitable value for multislot configuration, chosen	
	arbitrarily.	
- Training Sequence Code	Chosen arbitrarily	
- Hopping	0 (= no hopping)	
- ARFCN	Chosen arbitrarily	
Synchronization Indication.	pre-synchronized; ROT=1; NCI=0.	
Channel Mode IE is not included.		
Description of a multislot configuration:		
- Downlink assignment	More times lots are allocated than before HANDOVER	
U	COMMAND	
- Uplink assignment	Same as before HANDOVER COMMAND	
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND	
Timing Advance	9 bit periods.	

DCS 1 800

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequencylist	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test, but shall not be the maximum
	number of timeslots.
- Downlink assignment	Appropriate for the test, but shall not be the maximum
	number of times lots.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

Information Element	value/remarks	
As default message contents, except:		
Cell Description		
- Network Colour Code	1	
- Base Station Colour Code	5	
- BCCH Carrier Number	764	
Channel Description 2		
- Channel Type	00000	
- Timeslot number	A suitable value for multislot configuration, chosen	
	arbitrarily.	
- Training Sequence Code	Chosen arbitrarily	
- Hopping	0 (= no hopping)	
- ARFCN	Chosen arbitrarily	
Synchronization Indication.	pre-synchronized; ROT=1; NCI=0.	
Channel Mode IE is not included.		
Description of a multislot configuration:		
- Downlink assignment	More times lots are allocated than before HANDOVER	
U	COMMAND	
- Uplink assignment	Same as before HANDOVER COMMAND	
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND	
Timing Advance	9 bit periods.	

GSM 700

ASSIGNMENT COMMAND

Information element	Value/remark	
Channel description 2	describes hopping Bm+ACCHs or Lm+ACCHs as	
	appropriate for the test	
Power Command	As in subclause 26.1.1	
Frequency list	Omitted	
Cell channel description	Omitted	
Description of the multislot configuration		
- Uplink assignment	Appropriate for the test, shall not be the maximum number	
	of timeslots.	
 Downlink assignment 	Appropriate for the test, but shall not be the maximum	
	number of timeslots.	
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test	
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test	
Description of the second channel	Omitted	
Mode of the second channel	Omitted	
Mobile allocation	Arbitrarily chosen from Cell channel description	
Starting time	Omitted	
Cipher mode setting	Omitted	

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	477
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen
	arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	Chosen arbitrarily
Synchronization Indication.	pre-synchronized; ROT=1; NCI=0.
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More times lots are allocated than before HANDOVER
Ŭ	COMMAND
- Uplink assignment	Same as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Timing Advance	9 bit periods.

GSM 850

ASSIGNMENT COMMAND

Information element	Value/remark
Channel description 2	Describes hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	
- Uplink assignment	Appropriate for the test, shall not be the maximum number
	of timeslots.
- Downlink assignment	Appropriate for the test, but shall not be the maximum
	number of timeslots.
- Channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Mode of the channel set X (1= <x<=8)< td=""><td>Appropriate for the test</td></x<=8)<>	Appropriate for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Arbitrarily chosen from Cell channel description
Starting time	Omitted
Cipher mode setting	Omitted

HANDOVER COMMAND

Information Element	value/remarks
As default message contents, except:	
Cell Description	
- Network Colour Code	1
- Base Station Colour Code	5
- BCCH Carrier Number	167
Channel Description 2	
- Channel Type	00000
- Timeslot number	A suitable value for multislot configuration, chosen arbitrarily.
- Training Sequence Code	Chosen arbitrarily
- Hopping	0 (= no hopping)
- ARFCN	Chosen arbitrarily
Synchronization Indication.	pre-synchronized; ROT=1; NCI=0.
Channel Mode IE is not included.	
Description of a multislot configuration:	
- Downlink assignment	More timeslots are allocated than before HANDOVER COMMAND
- Uplink assignment	Same as before HANDOVER COMMAND
- Channel set X (1= <x<=8)< td=""><td>Same as before HANDOVER COMMAND</td></x<=8)<>	Same as before HANDOVER COMMAND
Timing Advance	9 bit periods.

26.13.1.4 Multislot signalling / RR / Test of the channel mode modify procedure

26.13.1.4.1 Conformance requirements

- 1) When the MS has received the CHANNEL MODE MODIFY message, the mobile station changes the mode for the indicated channel and then replies by a CHANNEL MODE MODIFY A CKNOW LEDGE message indicating the new channel mode.
- 2) If the mobile station does not support the indicated mode, it shall retain the old mode and return the associated channel mode information in the CHANNEL MODE MODIFY ACKNOWLEDGE message.

References

Conformance requirement: 3GPP TS 04.08 / 3GPP TS 44.018, subclauses 3.4.6 and 9.1.5 and 9.1.6.

26.13.1.4.2 Test purpose

- 1) To verify that the MS, in an RR connected state, acknowledges a CHANNEL MODE MODIF Y message by sending a CHANNEL MODE MODIFY ACKNOW LEDGEMENT message specifying and switching to the correct mode for the channels in a multislot configuration:
 - the new mode if that mode is supported;
 - the old mode if the new mode is not supported.
- 2) This shall be verified for all existing channel modes:
 - data 9,6 Kb/s:
 - data 4,8 Kb/s full rate:
 - data 14,4 Kb/s.

26.13.1.4.3 Method of test

Initial Conditions

System Simulator:

- 1 cells, default parameters except:
 - Early classmark sending enabled in SI3 rest octets

Mobile Station:

- The MS is "idle updated", with TMSI allocated.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

supported radio interface rates: 12kbps, 6kbps, 3,6kbps

Foreseen final state of the MS

"Idle, updated " with TMSI allocated.

Test procedure

- 1) A Mobile Terminated multislot connection is initiated, however following the Channel Request received from the Mobile Station, the SS sends an Immediate Assignment to the MS commanding it to go to a TC H/F. This sets the Channel Mode automatically to "Signalling Only".
- 2) The SS then sends a series of CHANNEL MODE MODIFY messages to the MS. Each time it is checked that the MS responds with a CHANNEL MODE MODIFY ACKNOWLEDGE message specifying:
 - 2.1) the channel mode that has been specified in the CHANNEL MODE MODIFY message, if the MS supports that mode (this mode then becomes the "channel mode in use");
 - 2.2) the channel mode that was in use when the CHANNEL MODE MODIFY message has been received, if the MS does not support the channel mode specified in the CHANNEL MODE MODIFY message.

Maximum duration of test

3 minutes.

Expected Sequence

Step	Direction	Message	Comments
1	SS->MS	PAGING REQUEST TYPE 1	Sent on correct paging subchannel.
2	MS->SS	CHANNEL REQUEST	Establishment cause indicates "answer to paging".
3	SS->MS	IMMEDIATE ASSIGNMENT	Assignment to a non hopping TCH/F.
4	MS->SS	PAGING RESPONSE	
5	MS->SS	CLASSMARK CHANGE	Multislot class
6	SS->MS	ASSIGNMENT COMMAND	Multislot configuration,
			Channel mode = 'signalling only'
7	MS->SS	ASSIGNMENT COMPLETE	
8	SS->MS	CHANNEL MODE MODIFY	See specific message contents
9	MS->SS	CHANNEL MODE MODIFY	See specific message contents
		ACKNOWLEDGE	
10	SS->MS	CHANNEL MODE MODIFY	See specific message contents
11	MS->SS	CHANNEL MODE MODIFY	See specific message contents
		ACKNOWLEDGE	
12	SS->MS	CHANNEL MODE MODIFY	See specific message contents
13	MS->SS	CHANNEL MODE MODIFY	See specific message contents
		ACKNOWLEDGE	
14	SS->MS	CHANNEL RELEASE	The main signalling link is released

Specific Message Contents

CHANNEL MODE MODIFY

Information Element	value/remark
Channel description	describes the already assigned dedicated channel.
Channelmode	
Mode	in step 8: data 9,6 Kb/s
	in step 10:data 4,8 Kb/s full rate
	in step 12:data 14,4 Kb/s

CHANNEL MODE MODIFY ACKNOWLEDGE

Channelmode	
Mode	In step 9: if 9.6 Kb/s suported: data 9,6 Kb/s; otherwise: signalling only. iIn step 11: if 4.8 Kb/s supported: data 4,8 Kb/s full rate;
	otherwise: same as in step 9. iIn step 13: if 14.4 Kb/s supported: data 14,4 Kb/s full
	rate;
	otherwise: same as in step 11.

26.13.1.5 Multislot signalling / RR / Early classmark sending

26.13.1.5.1 Conformance requirement

- 1) MS uses Controlled Early Classmark Sending procedure when indicated in SYSTEM INFORMATION TYPE 3 (ES ind bit in SI 3 Rest Octets).
 - 1.1) If Controlled Early Classmark Sending is not allowed by network the MS does not send a CLASSMARK CHANGE message.
 - 1.2) If Controlled Early Classmark Sending is allowed by network the MS shall send its multislot class in Mobile Station Classmark 3 in a CLASSMARK CHANGE message.

Reference

```
Conformance requirement 1: 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.1.1.4 and 3.4.10.
```

26.13.1.5.2 Test purpose

- 1) To verify that the MS sends its multislot class in Mobile Station Classmark 3 using Controlled Early Classmark Sending procedure if allowed by network.
- 2) To verify that the MS does not perform Early Classmark Sending if it is not allowed.

26.13.1.5.3 Method of test

Initial conditions

Mobile Station:

- The MS is in MM-state "idle, updated" with valid TMSI and CKSN.

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets

Specific PICS statements:

PIXIT statements:

-

Foreseen final state of the MS

MS is in MM-state "idle, updated" with valid TMSI and CKSN.

Test procedure

The MS is made to initiate a multislot connection. In the first case Controlled Early Classmark Sending procedure is allowed by network, the MS performs Early Classmark sending. In the second case Controlled Early Classmark Sending procedure is not allowed by network, the MS does not send a CLASSMARK CHANGE message.

SS checks Controlled Early Classmark Change procedure from CLASSMARK CHANGE message. If Controlled Early Classmark Sending procedure is allowed by the network ES ind bit in SI 3 Resr Octets is set. If this bit is not set SS sends CHANNEL RELEASE and the main signalling link is released. If ES ind bit was set then the MS's multislot class is sent in Mobile Station Classmark 3 (octet 4) in the CLASSMARK CHANGE message.

Maximum duration of test

2 minutes.

Expected sequence

This test is executed with the following sequences in allowed and not allowed cases respectively.

After the first sequence Early classmark sending is disabled from SI3 rest octets.

Step	Direction	Message	Comments
	SS		Controlled Early Classmark Sending
			procedure is allowed by the network.
1	SS -> MS		Sent on the correct paging subchannel.
2	MS -> SS	CHANNEL REQUEST	Establishment cause is: answer to paging
3	SS -> MS	IMMEDIATE ASSIGNMENT	
4	MS -> SS	PAGING RESPONSE	Message is contained in SABM.
5	MS -> SS	CLASSMARK CHANGE	SS checks that MS sent its multislot class in
			Mobile Station Classmark 3.
7	SS -> MS	CHANNEL RELEASE	The main signalling link is released

Step	Direction	Message	Comments
	SS		Controlled Early Classmark Sending
			procedure is not allowed by the network.
1	SS -> MS	PAGING REQUEST TYPE 1	Sent on the correct paging subchannel.
2	MS -> SS	CHANNEL REQUEST	Establishment cause is: answer to paging
3	SS -> MS	IMMEDIATE ASSIGNMENT	
4	MS -> SS	PAGING RESPONSE	Message is contained in SABM
5	SS		SS checks for 2 seconds that no CLASSMARK
			CHANGE message is sent by the MS.
6	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

NOTE: Step 5: 3GPP TS 04.08 / 3GPP TS 44.018 subclause 3.3.1.1.4.1 states that the MS shall send CLASSMARK CHANGE as early as possible. 2 seconds are chosen as a reasonable value to verify that the MS does not send a CLASSMARK CHANGE message.

26.13.1.6 Default contents of layer 3 messages for RR tests

26.13.1.6.1 Default contents of GSM 900 layer 3 messages for RR tests

This subclause contains the default values of GSM 900 L3 messages, which unless indicated otherwise in subclause 26.13 shall be transmitted by the system simulator and which are required to be received from the GSM 900 MS under test.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements that are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

In this subclause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

Default SYSTEM INFORMATION:

NOTE 1: SYSTEM INFORMATION 2 bis, SYSTEM INFORMATION 5 bis, SYSTEM INFORMATION 7, and SYSTEM INFORMATION 8 messages are not used.

Cell A

Contents of information elements in SYSTEM INFORMATION TYPE 1 to 6 messages for cell A.

(CBCH) Channel Description	Not present.
(CBCH) Mobile Allocation	Not present.
Cell Channel Description	
- Format identifier	bit map 0.
- Cell Allocation ARFCN	Channels 20, 30, 50 and 70.
Cell Identity	
- Cell Identity Value	0001H
Cell Options	
- Power Control Indicator	Power Control Indicator is not set.
- DTX Indicator	MS shall not use DTX.
- Radio_Link_Timeout	8 SACCH blocks.
Cell Selection Parameters	
- Cell_Reselect_Hysteresis	12 dB.
- MX_TXPWR_MAX_CCH	Minimum level.
- ACS	No addition cell parameters are present in SYSTEM
	INFORMATION messages 7 and 8.
- NECI	New establishment causes not supported.
- RXLEV_ACCESS_MIN	Minimum level.
Control Channel Description	
- Attach-Detach allowed	No Attach/Detach.
- BS_AG_BLKS_RES	0 blocks reserved for access grant.
- CCCH_CONF	1 basic physical channel used for CCCH, combined with
	SDCCHs.
- BS_PA_MFR MS	5 multiframe periods for transmission of paging
	messages.
- T3212 Time-out value	Infinite.
L2 pseudo length	24
- System information 1	21
- System information 2	22
- System information 3	18
- System information 4	12
Location Area Identification	
- Mobile Country Code	001 decimal
- Mobile Network Code	01 decimal
- Location Area Code	0001H
Message Type	
- System information 1	00011001
- System information 2	00011010
- System information 3	00011011
- System information 4	00011100
- System information 5	00011101
- System information 6	00011110
Neighbour Cells Description	
- Format identifier	bit map 0.
- BCCH Allocation Sequence	0
- BCCH Allocation ARFCN	Channels 10, 20, 40, 80, 90, 100, 110 and 120.
- EXT-IND	This IE carries the complete BA.
NCC Permitted	0000 0010
RACH Control Parameters	
- Max Retrans	Max1 retrans.
- Tx-integer	5 slots used.
- Cell Barred for Access	Cell is not barred.
- Call Reestablishment Allowed	Not allowed.
- Access Control Class	Access is not barred.
- Emergency Call allowed	Yes.
SI 1 rest octets	Not used (all bits are set to spare).
SI 2 rest octets	Not used (all bits are set to spare).
ISI3 rest octets	
SI 3 rest octets SI 4 rest octets	Not used (all bits are set to spare). Not used (all bits are set to spare).

Default settings for cell A:

Downlink input level	63 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	20

Cell B

The contents of SYSTEM INFORMATION TYPE 1 to 6 messages for cell B are identical to those of cell A with the following exceptions:

Cell Channel Description	
- Format Identifier	Bit map 0.
- Cell Allocation ARFCN	Channel Number 10.

NOTE 2: This IE needs modification when used in handover tests that command the MS to go to a frequency hopping channel in cell B.

Cell Identity

- Cell Identity Value: 0002H.

Default settings for cell B:

Downlink input level	53 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	10

Contents of ALERTING message (SS to MS):

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000001
All other information elements	Not present.

Contents of ASSIGNMENT COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101110
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 30.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of ASSIGNMENT COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101001
RR Cause	
- RR Cause Value	Normal event.

Contents of ASSIGNMENT FAILURE message:

Protocol Discriminator Skip Indicator	RR Management. 0000	
Message Type	00101111	
RR Cause		
- RR Cause Value	Depending on test.	

Contents of AUTHENTICATION REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	00010010
Ciphering Key Sequence Number - Key Sequence	Chosen arbitrarily by the test house from the range 0 to 6.
Authentication Parameter RAND	
- RAND value	Chosen arbitrarily by the test house.

Contents of AUTHENTICATION RESPONSE message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X010100
Other information element(s)	Not checked.

Contents of CALL PROCEEDING message:

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000010
All other information elements	Not present.

Contents of CHANNEL MODE MODIFY message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010000
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 30.
Channel Mode	
- Mode	Depending on test.

Contents of CHANNEL MODE MODIFY ACKNOWLEDGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010111
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Same as in the CHANNEL MODE MODIFY message.
- Training Sequence Code	Same as in the CHANNEL MODE MODIFY message.
- Hopping	Single RF channel.
- Frequency Band	Band number 0.
- ARFCN	Channel number 30.
Channel Mode	
- Mode	Same as in the CHANNEL MODE MODIFY message.

Contents of CHANNEL RELEASE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00001101
RR Cause	
- RR Cause Value	Normal event.

Contents of CHANNEL REQUEST message

Establishment Cause	Not checked.
Random Reference	Not checked.

Contents of CIPHERING MODE COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110101
Cipher Mode Setting	
- algorithm identifier	cipher with A5/1.
- SC	Start ciphering.
Cipher Response	IMEI shall not be included.

Contents of CIPHERING MODE COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110010
Mobile Identity	Not present.

Contents of the CLASSMARK CHANGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	000100110
Mobile Station Classmark 2	See PICS/PIXIT.
Mobile Station Classmark 3	For presence and contents see PICS/PIXIT.

Contents of CM SERVICE ACCEPT message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	00100001

Contents of CM SERVICE REQUEST message

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	0X100100
Other information elements	Not checked.

Contents of CONFIGURATION CHANGE COMMAND message (SS to MS)

Protocol Discriminator	Radio Resource	
Skip Indicator	0000	
Message type	00110000	
Multislot allocation	Appropriate for the test	
- Downlink assignment	Appropriate for the test	
- Uplink assignment	Appropriate for the test	
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	

Contents of CONFIGURATION CHANGE ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110001

Contents of CONFIGURATION CHANGE REJECT message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110011
RR Cause	Protocol Error Unspecified

Contents of CONNECT message (SS to MS)

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1
Message Type	00000111
All other information elements	Not present.

Contents of CONNECT ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	0
Message Type	0X001111

Contents of HANDOVER ACCESS message:

Handover Reference	Equal to the value induded in the Handover Command
	message.

Contents of HANDOVER COMMAND message:

Desta del Distatoria stato	DD Mars a series and
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101011
Cell Description	
- Network Colour Code	1
- Base station Colour Code	Corresponding to target cell
- BCCH Carrier Number	Set to the BCCH carrier number of cell B. (one of 10, 20, 80, 90, 100, 110 or 120).
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Chosen arbitrarily by the test house from those supported
	on the target cell.
Handover Reference	
- Handover Reference Value	Chosen arbitrarily by the test house.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of HANDOVER COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101100
RR cause	Normal event.
Time difference	Not present.

Contents of HANDOVER FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101000
RR cause	Dependent on the test.

Contents of IMMEDIATE ASSIGNMENT message:

L2 pseudo length	This is the sum of the lengths of all the information
1	elements present in the message except for the IA rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111111
Page Mode	
- Page Mode	Normal Paging.
Channel Description	
- Channel Type and TDMA offset	For non-combined CCCH/SDCCH (see initial conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial conditions),
	Channel number 30; For combined CCCH/SDCCH
	(default SS conditions), SDCCH/4, Channel number 20.
Request Reference	Pertaining to last Channel Request sent by the MS.
Timing Advance	
- Timing advance value	30 bit periods.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IA rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT EXTENDED message:

L 2 no quido lon ath	This is the sum of the lengths of all the information
L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IAX rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 18.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111001
Page Mode	
- Page Mode	Normal Paging.
Channel Description 1	
 Channel Type and TDMA offset 	For non-combined CCCH/SDCCH (see test conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house; For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see test conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
3 - 1	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial
	conditions),Channel number 30; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	Channel number 20.
Request Reference 1	Pertaining to last Channel Request sent by the MS.
Timing Advance 1	
- Timing advance value	Chosen arbitrarily by the test house.
Channel Description 2	
- Channel Type and TDMA offset	Same channel type as in Channel Description 1, but
Channel Type and TEM/Konset	different TDMA offset to that in Channel Description 1.
- Timeslot Number	equal to the value in Channel Description 1.
- Training Sequence Code	equal to the value in Channel Description 1.
- Hopping	Single RF channel.
- ARFCN	equal to the value in Channel Description 1.
Request Reference 2	Not pertaining to any Channel Requests sent by the MS.
Timing Advance 2	not pertaining to any onaline intequests sent by the Mo.
- Timing advance value	Chosen arbitrarily by the test house
Mobile Allocation	Chosen arbitrarily by the test house.
- Length	0
Starting Time	-
8	Not present.
IAX rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT REJECT message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111010
Page Mode	
- Page Mode	Normal Paging.
Request Reference	Pertaining to last Channel Request sent by the MS.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
IAR rest octets	Not used (all bits set to spare).

Contents of LOCATION UPDATING REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X001000
Other information elements	Not checked.

Contents of PAGING REQUEST TYPE 1 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P1 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 9.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100001
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
 odd/even indication 	Even.
- Type of Identity	TMSI.
- Identity Digits	TMSI previously allocated to MS.
Mobile Identity 2	Not present.
P1 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 2 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P2 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100010
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile Identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile Identity	Not present.
P2 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 3 message:

L2 pseudo length	19
Protocol Discriminator	
	RR Management.
Skip Indicator	0000
Message Type	00100100
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile identity 3	
- TMSI value	TMSI not allocated to MS.
Mobile identity 4	
- TMSI value	TMSI not allocated to MS.
P3 rest octets	Not used (all bits set to spare).

Contents of PAGING RESPONSE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100111
Ciphering Key Sequence Number	
- Key Sequence	Key sequence number previously allocated to MS, or
	"111" if no key is available.
Mobile Station Classmark 2	
Mobile Identity	
- odd/even indication	Even
- Type of identity	TMSI
- Identity Digits	TMSI previously allocated to MS.

Contents of PHYSICAL INFORMATION message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101101
Timing advance	20 bit periods.

Contents of SETUP message; (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	any value from the set {0,, 6}.
TI flag	0
Message Type	0X000101
Other information elements	Not checked.

26.13.1.6.2 Default contents of DCS 1 800 layer 3 messages for RR tests

This subclause contains the default values of DCS 1 800 L3 messages, which unless indicated otherwise in subclause 26.6 shall be transmitted by the system simulator and which are required to be received from the DCS 1 800 MS under test. These values are used in order to be consistent with the phase 2 version of 26.6.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements that are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

In this subclause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

Default SYSTEM INFORMATION:

NOTE 1: SYSTEM INFORMATION 2 bis, SYSTEM INFORMATION 7, and SYSTEM INFORMATION 8 messages are not used.

SYSTEM INFORMATION 5 bis is not sent as a default message. For those tests that require SYSTEM INFORMATION 5 bis see the specific message contents for that test.

Cell A

Contents of information elements in SYSTEM INFORMATION TYPE 1 to 6 messages for cell A.

(CBCH) Channel Description	Not present.
(CBCH) Mobile Allocation	Not present.
Cell Channel Description	
- Format identifier	Range 512.
- Cell Allocation ARFCN	Channel Numbers, 590, 650, 750 and 850.
Cell Identity	
- Cell Identity Value	0001H
	000111
Cell Options	Device Orester Lie director is material O
- Power Control Indicator	Power Control Indicator is not set, 0
- DTX Indicator	MS shall not use DTX.
- Radio_Link_Timeout	8 SACCH blocks.
Cell Selection Parameters	
- Cell_Reselect_Hysteresis	12 dB
- MX_TXPWR_MAX_CCH	Minimum level.
- ACS	No addition cell parameters are present in SYSTEM
	INFORMATION messages 7 and 8.
- NECI	New establishment causes not supported.
- RXLEV_ACCESS_MIN	Minimum level.
Control Channel Description	
- Attach-Detach allowed	MS shall not apply.
- BS_AG_BLKS_RES	0 blocks reserved for access grant.
- CCCH_CONF	1 basic physical channel used for CCCH, combined with SDCCHs.
- BS_PA_MFRMS	5 multiframe periods for transmission of paging messages.
- T3212 Time-out value	Infinite.
L2 pseudo length	
- System information 1	21
- System information 2	22
- System information 3	18
- System information 4	12
Location Area Identification	
- Mobile Country Code	001 decimal.
- Mobile Network Code	01 decimal.
- Location Area Code	0001H
Message Type	
- System information 1	00011001
- System information 2	00011010
- System information 3	00011011
- System information 4	00011100
- System information 5	00011101
- System information 6	00011110
Neighbour Cells Description	
- Format identifier	Range 512.
- BCCH Allocation Sequence	0
- BCCH Allocation ARFCN	Channels numbers, 520, 590, 600, 700, 764, 780, 810, 870.
- EXT-IND	This IE carries the complete BA. EXT-IND is 0.
NCC Permitted	0000 0010
RACH Control Parameters	
- Max Retrans	Max1 retrans.
- Tx-integer	5 slots used.
- Cell Barred for Access	Cell is not barred.
- Call Reestablishment Allowed	Not Allowed.
- Access Control Class	Access is not barred.
- Emergency Call allowed	Yes.
SI 1 rest octets	Not used (all bits are set to spare).
SI 2 rest octets	Not used (all bits are set to spare).
ISL2 root optoto	Not used (all bits are set to spare).
SI 3 rest octets SI 4 rest octets	Not used (all bits are set to spare).

Default settings for cell A:

Downlink input level	63 dBmicroVolt emf().
Uplink output power	minimum supported by the MS's power class
Propagation profile	static.
BCCH/CCCH carrier number	ARFN 590.

Cell B

The contents of SYSTEM INFORMATION TYPE 1 to 6 messages for cell B are identical to those of cell A with the following exceptions:

Cell Channel Description	
- Format Identifier	Range 512.
- Cell Allocation ARFCN	Channel Number 520.

NOTE 2: This IE needs modification when used in handover tests that command the MS to go to a frequency hopping channel in cell B.

Cell Identity	
- Cell Identity Value	0002H

Default settings for cell B:

Downlink input level	53 dBmicroVolt emf().
Uplink output power	minimum supported by the MS's power class
Propagation profile	static.
BCCH/CCCH carrier number	520

Contents of ALERTING message (SS to MS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000001
All other information elements	Not present.

Contents of ASSIGNMENT COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101110
Channel Description	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 650.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	Appropriate for the test
 Downlink assignment 	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test

Contents of ASSIGNMENT COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101001
RR Cause	
- RR Cause Value	Normal event.

Contents of ASSIGNMENT FAILURE message:

Protocol Discriminator Skip Indicator	RR Management. 0000
Message Type	00101111
RR Cause	Depending on test
- RR Cause Value	Depending on test.

Contents of AUTHENTICATION REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	00010010
Ciphering Key Sequence Number - Key Sequence	Chosen arbitrarily by the test house from the range 0 to 6.
Authentication Parameter RAND	
- RAND value	Chosen arbitrarily by the test house.

Contents of AUTHENTICATION RESPONSE message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X010100
Other information element(s)	Not checked.

Contents of CALL PROCEEDING message:

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000010
All other information elements	Not present.

Contents of CHANNEL MODE MODIFY message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010000
Channel Description	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 650.
Channel Mode	
- Mode	Depending on test.

Contents of CHANNEL MODE MODIFY ACKNOWLEDGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010111
Channel Description	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Same as in the CHANNEL MODE MODIFY message.
- Training Sequence Code	Same as in the CHANNEL MODE MODIFY message.
- Hopping	Single RF channel.
- Frequency Band	Band number 0.
- ARFCN	Channel number 650.
Channel Mode	
- Mode	Same as in the CHANNEL MODE MODIFY message.

Contents of CHANNEL RELEASE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00001101
RR Cause	
- RR Cause Value	Normal event.

Contents of CHANNEL REQUEST message:

Establishment Cause	Not checked.
Random Reference	Not checked.

Contents of CIPHERING MODE COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110101
Cipher Mode Setting	
- algorithm identifier	cipher with A5/1.
- SC	Start ciphering.
Cipher Response	IMEI shall not be included.

Contents of CIPHERING MODE COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110010
Mobile Identity	Not present.

Contents of the CLASSMARK CHANGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	000100110
Mobile Station Classmark 2	
- RF Power Capability	See PICS/PIXIT.
- Frequency Capability	Set to 0.
Mobile Station Classmark 3	For presence and contents see PICS/PIXIT.

Contents of CM SERVICE ACCEPT message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	00100001

Contents of CM SERVICE REQUEST message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	0X100100
Other information elements	Not checked.

Contents of CONFIGURATION CHANGE COMMAND message (SS to MS)

Protocol Discriminator	Radio Resource	
Skip Indicator	0000	
Message type	00110000	
Multislot allocation	Appropriate for the test	
- Downlink assignment	Appropriate for the test	
- Uplink assignment	Appropriate for the test	
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	

Contents of CONFIGURATION CHANGE ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110001

Contents of CONFIGURATION CHANGE REJECT message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110011
RR Cause	Protocol Error Unspecified

Contents of CONNECT message (SS to MS):

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1
Message Type	00000111
All other information elements	Not present.

Contents of CONNECT ACKNOWLEDGE message (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	0
Message Type	0X001111

Contents of HANDOVER ACCESS message:

Handover Reference	Equal to the value included in the Handover Command
	message.

Contents of HANDOVER COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101011
Cell Description	
- Network Colour Code	1
- Base station Colour Code	Corresponding to target cell
- BCCH Carrier Number	Set to the BCCH carrier number of cell B. (one of 520, 590, 600, 700, 780, 810 or 870).
Channel Description	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Chosen arbitrarily by the test house from those supported
	on the target cell.
Handover Reference	
- Handover Reference Value	Chosen arbitrarily by the test house.
Power Command	
- Power level	Chosen arbitrarily by the test house.
All other information elements	Not present.

Contents of HANDOVER COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101100
RR cause	Normal event.
Time difference	Not present.

Contents of HANDOVER FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101000
RR cause	Dependent on the test.

Contents of IMMEDIATE ASSIGNMENT message:

1.2 pa oudo longth	This is the sum of the lengths of all the information
L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IA rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111111
Page Mode	
- Page Mode	Normal Paging.
Channel Description	
- Channel Type and TDMA offset	For non-combined CCCH/SDCCH (see initial conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
Training Converses Code	
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial conditions),
	Channel number 650; For combined CCCH/SDCCH
	(default SS conditions), SDCCH/4, Channel number 590.
Request Reference	Pertaining to last Channel Request sent by the MS.
Timing Advance	
- Timing advance value	30 bit periods.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IA rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT EXTENDED message:

1.2 pa quida lan ath	This is the sum of the lengths of all the information
L2 pseudo length	
	elements present in the message except for the IAX rest octets and L2 pseudo length IEs. For the default message
Desta est Dis size in stan	the L2 pseudo length is 18.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111001
Page Mode	
- Page Mode	Normal Paging.
Channel Description 1	
 Channel Type and TDMA offset 	For non-combined CCCH/SDCCH (see test conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house; For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see test conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
3 - 1	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial
	conditions), Channel number 650; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	Channel number 590.
Request Reference 1	Pertaining to last Channel Request sent by the MS.
Timing Advance 1	
- Timing advance value	Chosen arbitrarily by the test house.
Channel Description 2	
- Channel Type and TDMA offset	Same channel type as in Channel Description 1, but
- Charmer Type and TDWA Onset	different TDMA offset to that in Channel Description 1.
- Timeslot Number	
	equal to the value in Channel Description 1.
- Training Sequence Code	equal to the value in Channel Description 1.
- Hopping	Single RF channel.
- ARFCN	equal to the value in Channel Description 1.
Request Reference 2	Not pertaining to any Channel Requests sent by the MS.
Timing Advance 2	
- Timing advance value	Chosen arbitrarily by the test house.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IAX rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT REJECT message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111010
Page Mode	
- Page Mode	Normal Paging.
Request Reference	Pertaining to last Channel Request sent by the MS.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
IAR rest octets	Not used (all bits set to spare).

Contents of LOCATION UPDATING REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X001000
Other information elements	Not checked.

Contents of PAGING REQUEST TYPE 1 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P1 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 9.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100001
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
 odd/even indication 	Even.
- Type of Identity	TMSI.
- Identity Digits	TMSI previously allocated to MS.
Mobile Identity 2	Not present.
P1 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 2 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P2 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100010
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile Identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile Identity	Not present.
P2 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 3 message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100100
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile identity 3	
- TMSI value	TMSI not allocated to MS.
Mobile identity 4	
- TMSI value	TMSI not allocated to MS.
P3 rest octets	Not used (all bits set to spare).

Contents of PAGING RESPONSE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100111
Ciphering Key Sequence Number	
- Key Sequence	Key sequence number previously allocated to MS, or
	"111" if no key is available.
Mobile Station Classmark 2	
Mobile Identity	
- odd/even indication	Even.
- Type of identity	TMSI
- Identity Digits	TMSI previously allocated to MS.

Contents of PHYSICAL INFORMATION message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101101
Timing advance	20 bit periods.

Contents of SETUP message; (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	any value from the set {0,, 6}.
TI flag	0
Message Type	0X000101
Other information elements	Not checked.

26.13.1.6.3 Default contents of GSM 450 layer 3 messages for RR tests

This subclause contains the default values of GSM 450 L3 messages, which unless indicated otherwise in subclause 26.13 shall be transmitted by the system simulator and which are required to be received from the GSM 450 MS under test.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements that are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

In this subclause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

Default SYSTEM INFORMATION:

NOTE 1: SYSTEM INFORMATION 2 bis, SYSTEM INFORMATION 5 bis, SYSTEM INFORMATION 7, and SYSTEM INFORMATION 8 messages are not used.

Cell A

Contents of information elements in SYSTEM INFORMATION TYPE 1 to 6 messages for cell A.

(CBCH) Channel Description	Not present.
(CBCH) Mobile Allocation	Not present.
Cell Channel Description	
- Format identifier	Range 128.
- Cell Allocation ARFCN	Channels 263, 267, 275 and 279.
Cell Identity	Chamiles 203, 207, 275 and 275.
	000111
- Cell Identity Value	0001H
Cell Options	
- Power Control Indicator	Power Control Indicator is not set.
- DTX Indicator	MS shall not use DTX.
- Radio_Link_Timeout	8 SACCH blocks.
Cell Selection Parameters	
- Cell_Reselect_Hysteresis	12 dB.
- MX_TXPWR_MAX_CCH	Minimum level.
- ACS	No addition cell parameters are present in SYSTEM
	INFORMATION messages 7 and 8.
- NECI	New establishment causes not supported.
- RXLEV_ACCESS_MIN	Minimum level.
Control Channel Description	
- Attach-Detach allowed	No Attach/Detach.
- BS_AG_BLKS_RES	0 blocks reserved for access grant.
- CCCH_CONF	1 basic physical channel used for CCCH, combined with
	SDCCHs.
- BS_PA_MFRMS	5 multiframe periods for transmission of paging
	messages.
- T3212 Time-out value	Infinite.
L2 pseudo length	
- System information 1	21
- System information 2	22
- System information 3	18
- System information 4	12
Location Area Identification	
- Mobile Country Code	001 decimal
- Mobile Network Code	01 decimal
- Location Area Code	0001H
Message Type	000111
- System information 1	00011001
- System information 2	00011010
- System information 2	00011011
- System information 3	00011100
	00011101
- System information 5	
- System information 6	00011110
Neighbour Cells Description	D 400
- Format identifier	Range 128.
- BCCH Allocation Sequence	
- BCCH Allocation ARFCN	Channels 262, 263, 274, 282, 284, 287, 290 and 293.
- EXT-IND	This IE carries the complete BA.
NCC Permitted	0000 0010
RACH Control Parameters	
- Max Retrans	Max1 retrans.
- Tx-integer	5 slots used.
- Cell Barred for Access	Cell is not barred.
- Call Reestablishment Allowed	Not allowed.
	Access is not barred.
- Access Control Class	
- Access Control Class - Emergency Call allowed	Yes.
- Emergency Call allowed	Yes. Not used (all bits are set to spare).
- Emergency Call allowed SI 1 rest octets	Yes.

Default settings for cell A:

Downlink input level	63 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	263

Cell B

The contents of SYSTEM INFORMATION TYPE 1 to 6 messages for cell B are identical to those of cell A with the following exceptions:

Cell Channel Description	
- Format Identifier	Range 128.
- Cell Allocation ARFCN	Channel Number 261.

NOTE 2: This IE needs modification when used in handover tests that command the MS to go to a frequency hopping channel in cell B.

Cell Identity

- Cell Identity Value: 0002H.

Default settings for cell B:

Downlink input level	53 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	261

Contents of ALERTING message (SS to MS):

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000001
All other information elements	Not present.

Contents of ASSIGNMENT COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101110
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 267.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of ASSIGNMENT COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101001
RR Cause	
- RR Cause Value	Normal event.

Contents of ASSIGNMENT FAILURE message:

Protocol Discriminator Skip Indicator	RR Management. 0000
Message Type	00101111
RR Cause	Depending on test
- RR Cause Value	Depending on test.

Contents of AUTHENTICATION REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	00010010
Ciphering Key Sequence Number - Key Sequence	Chosen arbitrarily by the test house from the range 0 to 6.
Authentication Parameter RAND - RAND value	Chosen arbitrarily by the test house.

Contents of AUTHENTICATION RESPONSE message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X010100
Other information element(s)	Not checked.

Contents of CALL PROCEEDING message:

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000010
All other information elements	Not present.

Contents of CHANNEL MODE MODIFY message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010000
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 267.
Channel Mode	
- Mode	Depending on test.

Contents of CHANNEL MODE MODIFY ACKNOWLEDGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010111
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Same as in the CHANNEL MODE MODIFY message.
- Training Sequence Code	Same as in the CHANNEL MODE MODIFY message.
- Hopping	Single RF channel.
- Frequency Band	Band number 0.
- ARFCN	Channel number 267.
Channel Mode	
- Mode	Same as in the CHANNEL MODE MODIFY message.

Contents of CHANNEL RELEASE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00001101
RR Cause	
- RR Cause Value	Normal event.

Contents of CHANNEL REQUEST message

Establishment Cause	Not checked.
Random Reference	Not checked.

Contents of CIPHERING MODE COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110101
Cipher Mode Setting	
- algorithm identifier	cipher with A5/1.
- SC	Start ciphering.
Cipher Response	IMEI shall not be included.

Contents of CIPHERING MODE COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110010
Mobile Identity	Not present.

Contents of the CLASSMARK CHANGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	000100110
Mobile Station Classmark 2	See PICS/PIXIT.
Mobile Station Classmark 3	For presence and contents see PICS/PIXIT.

Contents of CM SERVICE ACCEPT message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	00100001

Contents of CM SERVICE REQUEST message

Protocol Discriminator	Mobility Management.	
Skip Indicator	0000	
Message Type	0X100100	
Other information elements	Not checked.	

Contents of CONFIGURATION CHANGE COMMAND message (SS to MS)

Protocol Discriminator	Radio Resource	
Skip Indicator	0000	
Message type	00110000	
Multislot allocation	Appropriate for the test	
- Downlink assignment	Appropriate for the test	
- Uplink assignment	Appropriate for the test	
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	

Contents of CONFIGURATION CHANGE ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110001

Contents of CONFIGURATION CHANGE REJECT message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110011
RR Cause	Protocol Error Unspecified

Contents of CONNECT message (SS to MS)

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1
Message Type	00000111
All other information elements	Not present.

Contents of CONNECT ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	0
Message Type	0X001111

Contents of HANDOVER ACCESS message:

Handover Reference	Equal to the value included in the Handover Command
	message.

Contents of HANDOVER COMMAND message:

Droto col Dio orignizato z	DD Managamant
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101011
Cell Description	
- Network Colour Code	1
- Base station Colour Code	Corresponding to target cell
- BCCH Carrier Number	Set to the BCCH carrier number of cell B. (one of 261, 263, 282, 284, 287, 290 or 293).
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Chosen arbitrarily by the test house from those supported
	on the target cell.
Handover Reference	5
- Handover Reference Value	Chosen arbitrarily by the test house.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	· · · · · · · · · · · · · · · · · · ·
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of HANDOVER COMPLETE message:

Protocol Discriminator	RR Management.	
Skip Indicator	0000	
Message Type	00101100	
RR cause	Normal event.	
Time difference	Not present.	

Contents of HANDOVER FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101000
RR cause	Dependent on the test.

Contents of IMMEDIATE ASSIGNMENT message:

1.2 no oudo lon ath	This is the sum of the lengths of all the information
L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IA rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111111
Page Mode	
- Page Mode	Normal Paging.
Channel Description	
- Channel Type and TDMA offset	For non-combined CCCH/SDCCH (see initial conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see initial conditions),
Thirds lot runn ber	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
Training Sequence Code	
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial conditions),
	Channel number 30; For combined CCCH/SDCCH
	(default SS conditions), SDCCH/4, Channel number 263.
Request Reference	Pertaining to last Channel Request sent by the MS.
Timing Advance	
- Timing advance value	30 bit periods.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IA rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT EXTENDED message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IAX rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 18.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111001
Page Mode	
- Page Mode	Normal Paging.
Channel Description 1	
- Channel Type and TDMA offset	For non-combined CCCH/SDCCH (see test conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house; For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see test conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARECN	For non-combined CCCH/SDCCH (see initial
	conditions),Channel number 30; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	Channel number 263.
Deguast Deference 4	Pertaining to last Channel Request sent by the MS.
Request Reference 1	Pertaining to last Channel Request Sent by the MS.
Timing Advance 1	
- Timing advance value	Chosen arbitrarily by the test house.
Channel Description 2	Or many shares at the state in Observal Description 4, but
- Channel Type and TDMA offset	Same channel type as in Channel Description 1, but
	different TDMA offset to that in Channel Description 1.
- Timeslot Number	equal to the value in Channel Description 1.
- Training Sequence Code	equal to the value in Channel Description 1.
- Hopping	Single RF channel.
- ARFCN	equal to the value in Channel Description 1.
Request Reference 2	Not pertaining to any Channel Requests sent by the MS.
Timing Advance 2	
- Timing advance value	Chosen arbitrarily by the test house.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IAX rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT REJECT message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111010
Page Mode	
- Page Mode	Normal Paging.
Request Reference	Pertaining to last Channel Request sent by the MS.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
IAR rest octets	Not used (all bits set to spare).

Contents of LOCATION UPDATING REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X001000
Other information elements	Not checked.

Contents of PAGING REQUEST TYPE 1 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P1 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 9.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100001
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
 odd/even indication 	Even.
- Type of Identity	TMSI.
- Identity Digits	TMSI previously allocated to MS.
Mobile Identity 2	Not present.
P1 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 2 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P2 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100010
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile Identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile Identity	Not present.
P2 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 3 message:

L2 pseudo length	19
Protocol Discriminator	
	RR Management.
Skip Indicator	0000
Message Type	00100100
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile identity 3	
- TMSI value	TMSI not allocated to MS.
Mobile identity 4	
- TMSI value	TMSI not allocated to MS.
P3 rest octets	Not used (all bits set to spare).

Contents of PAGING RESPONSE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100111
Ciphering Key Sequence Number	
- Key Sequence	Key sequence number previously allocated to MS, or
	"111" if no key is available.
Mobile Station Classmark 2	
Mobile Identity	
- odd/even indication	Even
- Type of identity	TMSI
- Identity Digits	TMSI previously allocated to MS.

Contents of PHYSICAL INFORMATION message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101101
Timing advance	20 bit periods.

Contents of SETUP message; (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	any value from the set {0,, 6}.
TI flag	0
Message Type	0X000101
Other information elements	Not checked.

26.13.1.6.4 Default contents of GSM 480 layer 3 messages for RR tests

This subclause contains the default values of GSM 480 L3 messages, which unless indicated otherwise in subclause 26.13 shall be transmitted by the system simulator and which are required to be received from the GSM 480 MS under test.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements that are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

In this subclause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

Default SYSTEM INFORMATION:

NOTE 1: SYSTEM INFORMATION 2 bis, SYSTEM INFORMATION 5 bis, SYSTEM INFORMATION 7, and SYSTEM INFORMATION 8 messages are not used.

Cell A

Contents of information elements in SYSTEM INFORMATION TYPE 1 to 6 messages for cell A.

(CRCH) Channel Description	Not proport
(CBCH) Channel Description	Not present.
(CBCH) Mobile Allocation Cell Channel Description	Not present.
	Dense 400
- Format identifier - Cell Allocation ARFCN	Range 128
	Channels 310, 315, 322 and 326.
Cell Identity	
- Cell Identity Value	0001H
Cell Options	
- Power Control Indicator	Power Control Indicator is not set.
- DTX Indicator	MS shall not use DTX.
- Radio_Link_Timeout	8 SACCH blocks.
Cell Selection Parameters	
- Cell_Reselect_Hysteresis	12 dB.
- MX_TXPWR_MAX_CCH	Minimum level.
- ACS	No addition cell parameters are present in SYSTEM
	INFORMATION messages 7 and 8.
- NECI	New establishment causes not supported.
- RXLEV_ACCESS_MIN	Minimum level.
Control Channel Description	
- Attach-Detach allowed	No Attach/Detach.
- BS_AG_BLKS_RES	0 blocks reserved for access grant.
- CCCH_CONF	1 basic physical channel used for CCCH, combined with
	SDCCHs.
- BS_PA_MFRMS	5 multiframe periods for transmission of paging
	messages.
- T3212 Time-out value	Infinite.
L2 pseudo length	
- System information 1	21
- System information 2	22
- System information 3	18
- System information 4	12
Location Area Identification	
- Mobile Country Code	001 decimal
- Mobile Network Code	01 decimal
- Location Area Code	0001H
Message Type	
- System information 1	00011001
- System information 2	00011010
- System information 3	00011011
- System information 4	00011100
- System information 5	00011101
- System information 6	00011110
Neighbour Cells Description	
- Format identifier	Range 128
- BCCH Allocation Sequence	n n n n n n n n n n n n n n n n n n n
- BCCH Allocation Sequence	•
- BCCH Allocation ARFCN - EXT-IND	Channels 308, 310, 321, 329, 331, 334, 337 and 340.
	This IE carries the complete BA.
NCC Permitted	0000 0010
RACH Control Parameters	Max 1 rationa
- Max Retrans	Max 1 retrans.
- Tx-integer	5 slots used.
- Cell Barred for Access	Cell is not barred.
- Call Reestablishment Allowed	Not allowed.
- Access Control Class	Access is not barred.
- Emergency Call allowed	Yes.
SI 1 rest octets	Not used (all bits are set to spare).
SI 2 rest octets	Not used (all bits are set to spare).
SI 3 rest octets	Not used (all bits are set to spare).
SI 4 rest octets	Not used (all bits are set to spare).

Default settings for cell A:

Downlink input level	63 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	310
	310

Cell B

The contents of SYSTEM INFORMATION TYPE 1 to 6 messages for cell B are identical to those of cell A with the following exceptions:

Cell Channel Description	
- Format Identifier	Range 128
- Cell Allocation ARFCN	Channel Number 308.

NOTE 2: This IE needs modification when used in handover tests that command the MS to go to a frequency hopping channel in cell B.

Cell Identity

- Cell Identity Value: 0002H.

Default settings for cell B:

Downlink input level	53 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	308

Contents of ALERTING message (SS to MS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000001
All other information elements	Not present.

Contents of ASSIGNMENT COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101110
Channel Description 2	
 Channel Type and TDMA offset 	Bm + ACCHs
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 315.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of ASSIGNMENT COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101001
RR Cause	
- RR Cause Value	Normal event.

Contents of ASSIGNMENT FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101111
RR Cause	
- RR Cause Value	Depending on test.

Contents of AUTHENTICATION REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	00010010
Ciphering Key Sequence Number	
- Key Sequence	Chosen arbitrarily by the test house from the range 0 to 6.
Authentication Parameter RAND	
- RAND value	Chosen arbitrarily by the test house.

Contents of AUTHENTICATION RESPONSE message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X010100
Other information element(s)	Not checked.

Contents of CALL PROCEEDING message:

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000010
All other information elements	Not present.

Contents of CHANNEL MODE MODIFY message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010000
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 315.
Channel Mode	
- Mode	Depending on test.

Contents of CHANNEL MODE MODIFY ACKNOWLEDGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010111
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Same as in the CHANNEL MODE MODIFY message.
- Training Sequence Code	Same as in the CHANNEL MODE MODIFY message.
- Hopping	Single RF channel.
- Frequency Band	Band number 0.
- ARFCN	Channel number 315.
Channel Mode	
- Mode	Same as in the CHANNEL MODE MODIFY message.

Contents of CHANNEL RELEASE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00001101
RR Cause	
- RR Cause Value	Normal event.

Contents of CHANNEL REQUEST message

Establishment Cause	Not checked.
Random Reference	Not checked.

Contents of CIPHERING MODE COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110101
Cipher Mode Setting	
- algorithm identifier	cipher with A5/1.
- SC	Start ciphering.
Cipher Response	IMEI shall not be included.

Contents of CIPHERING MODE COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110010
Mobile Identity	Not present.

Contents of the CLASSMARK CHANGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	000100110
Mobile Station Classmark 2	See PICS/PIXIT.
Mobile Station Classmark 3	For presence and contents see PICS/PIXIT.

Contents of CM SERVICE ACCEPT message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	00100001

Contents of CM SERVICE REQUEST message

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	0X100100
Other information elements	Not checked.

Contents of CONFIGURATION CHANGE COMMAND message (SS to MS)

Protocol Discriminator	Radio Resource	
Skip Indicator	0000	
Message type	00110000	
Multislot allocation	Appropriate for the test	
- Downlink assignment	Appropriate for the test	
- Uplink assignment	Appropriate for the test	
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	

Contents of CONFIGURATION CHANGE ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110001

Contents of CONFIGURATION CHANGE REJECT message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110011
RR Cause	Protocol Error Unspecified

Contents of CONNECT message (SS to MS)

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1
Message Type	00000111
All other information elements	Not present.

Contents of CONNECT ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	0
Message Type	0X001111

Contents of HANDOVER ACCESS message:

Handover Reference	Equal to the value included in the Handover Command
	message.

Contents of HANDOVER COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101011
Cell Description	
- Network Colour Code	1
- Base station Colour Code	Corresponding to target cell
- BCCH Carrier Number	Set to the BCCH carrier number of cell B. (one of 308, 310, 329, 331, 334, 337 or 340).
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Chosen arbitrarily by the test house from those supported
	on the target cell.
Handover Reference	
- Handover Reference Value	Chosen arbitrarily by the test house.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
 Downlink assignment 	Appropriate for the test
 Uplink assignment 	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of HANDOVER COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101100
RR cause	Normal event.
Time difference	Not present.

Contents of HANDOVER FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101000
RR cause	Dependent on the test.

Contents of IMMEDIATE ASSIGNMENT message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IA rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111111
Page Mode	
- Page Mode	Normal Paging.
Channel Description	
 Channel Type and TDMA offset 	For non-combined CCCH/SDCCH (see initial conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARECN	For non-combined CCCH/SDCCH (see initial conditions),
	Channel number 30; For combined CCCH/SDCCH
	(default SS conditions), SDCCH/4, Channel number 310.
	Pertaining to last Channel Request sent by the MS.
Timing Advance	
- Timing advance value	30 bit periods.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IA rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT EXTENDED message:

L2 pseudo length	This is the sum of the lengths of all the information
L2 pseudo lengin	
	elements present in the message except for the IAX rest octets and L2 pseudo length IEs. For the default message
Desta sel Dis seine in stan	the L2 pseudo length is 18.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111001
Page Mode	
- Page Mode	Normal Paging.
Channel Description 1	
 Channel Type and TDMA offset 	For non-combined CCCH/SDCCH (see test conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house; For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see test conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
3 - 1	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial
	conditions),Channel number 30; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	Channel number 310.
Request Reference 1	Pertaining to last Channel Request sent by the MS.
Timing Advance 1	
- Timing advance value	Chosen arbitrarily by the test house.
Channel Description 2	Chosen arbitrality by the test house.
- Channel Type and TDMA offset	Same channel type as in Channel Description 1, but
	different TDMA offset to that in Channel Description 1.
- Timeslot Number	equal to the value in Channel Description 1.
- Training Sequence Code	equal to the value in Channel Description 1.
- Hopping - ARFCN	Single RF channel. equal to the value in Channel Description 1.
Request Reference 2	Not pertaining to any Channel Requests sent by the MS.
Timing Advance 2	Changer or hitrorik, but the test house
- Timing advance value	Chosen arbitrarily by the test house.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IAX rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT REJECT message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111010
Page Mode	
- Page Mode	Normal Paging.
Request Reference	Pertaining to last Channel Request sent by the MS.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
IAR rest octets	Not used (all bits set to spare).

Contents of LOCATION UPDATING REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X001000
Other information elements	Not checked.

Contents of PAGING REQUEST TYPE 1 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P1 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 9.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100001
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
 odd/even indication 	Even.
- Type of Identity	TMSI.
- Identity Digits	TMSI previously allocated to MS.
Mobile Identity 2	Not present.
P1 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 2 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P2 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100010
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile Identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile Identity	Not present.
P2 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 3 message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100100
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile identity 3	
- TMSI value	TMSI not allocated to MS.
Mobile identity 4	
- TMSI value	TMSI not allocated to MS.
P3 rest octets	Not used (all bits set to spare).

Contents of PAGING RESPONSE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100111
Ciphering Key Sequence Number	
- Key Sequence	Key sequence number previously allocated to MS, or
	"111" if no key is available.
Mobile Station Classmark 2	
Mobile Identity	
- odd/even indication	Even
- Type of identity	TMSI
- Identity Digits	TMSI previously allocated to MS.

Contents of PHYSICAL INFORMATION message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101101
Timing advance	20 bit periods.

Contents of SETUP message; (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	any value from the set {0,, 6}.
TI flag	0
Message Type	0X000101
Other information elements	Not checked.

26.13.1.6.5 Default contents of GSM 700 layer 3 messages for RR tests

This subclause contains the default values of GSM 700 L3 messages, which unless indicated otherwise in subclause 26.13 shall be transmitted by the system simulator and which are required to be received from the GSM 700 MS under test.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYST EM INFORMATION messages, where it is the information elements that are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

In this section, decimal values are normally used. However, so metimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

Default SYSTEM INFORMATION:

NOTE 1: SYSTEM INFORMATION 2 bis, SYSTEM INFORMATION 5 bis, SYSTEM INFORMATION 7, and SYSTEM INFORMATION 8 messages are not used.

Cell A

Contents of information elements in SYSTEM INFORMATION TYPE 1 to 6 messages for cell A.

(CBCH) Channel Description	Not present.
(CBCH) Mobile Allocation	Not present.
Cell Channel Description	Not present.
	100
- Format identifier	128 range.
- Cell Allocation ARFCN	Channels 457, 467, 470 and 475.
Cell Identity	
- Cell Identity Value	0001H
Cell Options	
- Power Control Indicator	Power Control Indicator is not set.
- DTX Indicator	MS shall not use DTX.
- Radio_Link_Timeout	8 SACCH blocks.
Cell Selection Parameters	
- Cell_Reselect_Hysteresis	12 dB.
- MX_TXPWR_MAX_CCH	Minimum level.
- ACS	No addition cell parameters are present in SYSTEM
	INFORMATION messages 7 and 8.
- NECI	New establishment causes not supported.
- RXLEV_ACCESS_MIN	Minimum level.
Control Channel Description	
- Attach-Detach allowed	No Attach/Detach.
- BS_AG_BLKS_RES	0 blocks reserved for access grant.
- CCCH_CONF	1 basic physical channel used for CCCH, combined with
	SDCCHs.
- BS_PA_MFR MS	5 multiframe periods for transmission of paging
	messages.
- T3212 Time-out value	Infinite.
L2 pseudo length	
- System information 1	21
	22
- System information 2 - System information 3	18
	12
- System information 4	12
Location Area Identification	
- Mobile Country Code	001 decimal
- Mobile Network Code	01 decimal
- Location Area Code	0001H
Message Type	
- System information 1	00011001
- System information 2	00011010
- System information 3	00011011
- System information 4	00011100
- System information 5	00011101
- System information 6	00011110
Neighbour Cells Description	
- Format identifier	128 range
- BCCH Allocation Sequence	0
- BCCH Allocation ARFCN	Channels 447, 457, 477, 480, 499, 504, 507 and 510.
- EXT-IND	This IE carries the complete BA.
NCC Permitted	0000 0010
RACH Control Parameters	
- Max Retrans	Max1 retrans.
- Tx-integer	5 slots used.
- Cell Barred for Access	Cell is not barred.
- Call Reestablishment Allowed	Not allowed.
- Access Control Class	Access is not barred.
- Emergency Call allowed	Yes.
SI 1 rest octets	Not used (all bits are set to spare).
SI 2 rest octets	Not used (all bits are set to spare).
SI 3 rest octets	Not used (all bits are set to spare).
SI 4 rest octets	Not used (all bits are set to spare).

Default settings for cell A:

Downlink input level	63 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	Static.
BCCH/CCCH carrier number	457
BCCH/CCCH camer number	437

Cell B

The contents of SYSTEM INFORMATION TYPE 1 to 6 messages for cell B are identical to those of cell A with the following exceptions:

Cell Channel Description	
- Format Identifier	128 range.
- Cell Allocation ARFCN	Channel Number 447.

NOTE 2: This IE needs modification when used in handover tests that command the MS to go to a frequency hopping channel in cell B.

Cell Identity

- Cell Identity Value: 0002H.

Default settings for cell B:

Downlink input level	53 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	447

Contents of ALERTING message (SS to MS):

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000001
All other information elements	Not present.

Contents of ASSIGNMENT COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101110
Channel Description 2	
 Channel Type and TDMA offset 	Bm + ACCHs
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 467.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of ASSIGNMENT COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101001
RR Cause	
- RR Cause Value	Normal event.

Contents of ASSIGNMENT FAILURE message:

Protocol Discriminator Skip Indicator	RR Management. 0000	
Message Type	00101111	
RR Cause		
- RR Cause Value	Depending on test.	

Contents of AUTHENTICATION REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	00010010
Ciphering Key Sequence Number - Key Sequence	Chosen arbitrarily by the test house from the range 0 to 6.
Authentication Parameter RAND - RAND value	Chosen arbitrarily by the test house.

Contents of AUTHENTICATION RESPONSE message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X010100
Other information element(s)	Not checked.

Contents of CALL PROCEEDING message:

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000010
All other information elements	Not present.

Contents of CHANNEL MODE MODIFY message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010000
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 467.
Channel Mode	
- Mode	Depending on test.

Contents of CHANNEL MODE MODIFY ACKNOWLEDGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010111
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Same as in the CHANNEL MODE MODIFY message.
- Training Sequence Code	Same as in the CHANNEL MODE MODIFY message.
- Hopping	Single RF channel.
- Frequency Band	Band number 0.
- ARFCN	Channel number 467.
Channel Mode	
- Mode	Same as in the CHANNEL MODE MODIFY message.

Contents of CHANNEL RELEASE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00001101
RR Cause	
- RR Cause Value	Normal event.

Contents of CHANNEL REQUEST message

Establishment Cause	Not checked.
Random Reference	Not checked.

Contents of CIPHERING MODE COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110101
Cipher Mode Setting	
- algorithm identifier	cipher with A5/1.
- SC	Start ciphering.
Cipher Response	IMEI shall not be included.

Contents of CIPHERING MODE COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110010
Mobile Identity	Not present.

Contents of the CLASSMARK CHANGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	000100110
Mobile Station Classmark 2	See PICS/PIXIT.
Mobile Station Classmark 3	For presence and contents see PICS/PIXIT.

Contents of CM SERVICE ACCEPT message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	00100001

Contents of CM SERVICE REQUEST message

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	0X100100
Other information elements	Not checked.

Contents of CONFIGURATION CHANGE COMMAND message (SS to MS)

Protocol Discriminator	Radio Resource	
Skip Indicator	0000	
Message type	00110000	
Multislot allocation	Appropriate for the test	
- Downlink assignment	Appropriate for the test	
- Uplink assignment	Appropriate for the test	
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	

Contents of CONFIGURATION CHANGE ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110001

Contents of CONFIGURATION CHANGE REJECT message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110011
RR Cause	Protocol Error Unspecified

Contents of CONNECT message (SS to MS)

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1
Message Type	00000111
All other information elements	Not present.

Contents of CONNECT ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	0
Message Type	0X001111

Contents of HANDOVER ACCESS message:

Handover Reference	Equal to the value induded in the Handover Command
	message.

Contents of HANDOVER COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101011
Cell Description	
- Network Colour Code	1
- Base station Colour Code	Corresponding to target cell
- BCCH Carrier Number	Set to the BCCH carrier number of cell B. (one of 447, 457, 480, 499, 504, 507 or 510).
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Chosen arbitrarily by the test house from those supported
	on the target cell.
Handover Reference	
- Handover Reference Value	Chosen arbitrarily by the test house.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of HANDOVER COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101100
RR cause	Normal event.
Time difference	Not present.

Contents of HANDOVER FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101000
RR cause	Dependent on the test.

Contents of IMMEDIATE ASSIGNMENT message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IA rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
	0000
Skip Indicator	
Message Type	00111111
Page Mode	
- Page Mode	Normal Paging.
Channel Description	
 Channel Type and TDMA offset 	For non-combined CCCH/SDCCH (see initial conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial conditions),
- ANI CIN	Channel number 467; For combined CCCH/SDCCH
	(default SS conditions), SDCCH/4, Channel number 20.
Deguast Deference	
Request Reference	Pertaining to last Channel Request sent by the MS.
Timing Advance	00 hite anis da
- Timing advance value	30 bit periods.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IA rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT EXTENDED message:

L2 pseudo length This is the sum of the lengths of all the information elements present in the message except for the IAX octets and L2 pseudo length IEs. For the default mest the L2 pseudo length is 18. Protocol Discriminator RR Management. Skip Indicator 0000 Message Type 00111001 Page Mode Normal Paging. Channel Description 1 For non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS conditions), SDCCH/4, with subchannel chosen arbitrarily	sage
octets and L2 pseudo length IEs. For the default mest the L2 pseudo length is 18.Protocol DiscriminatorRR Management.Skip Indicator0000Message Type00111001Page Mode00111001- Page ModeFor non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	sage
Protocol Discriminator the L2 pseudo length is 18. Protocol Discriminator RR Management. Skip Indicator 0000 Message Type 00111001 Page Mode Normal Paging. Channel Description 1 For non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	C
Protocol Discriminator RR Management. Skip Indicator 0000 Message Type 00111001 Page Mode - Page Mode - Page Mode Normal Paging. Channel Description 1 - Channel Type and TDMA offset - Channel Type and TDMA offset For non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
Skip Indicator 0000 Message Type 00111001 Page Mode 00111001 - Page Mode Normal Paging. Channel Description 1 For non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
Message Type 00111001 Page Mode 00111001 - Page Mode Normal Paging. Channel Description 1 For non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
Page Mode Normal Paging. Channel Description 1 For non-combined CCCH/SDCCH (see test condition SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
Page Mode Normal Paging. Channel Description 1 - Channel Type and TDMA offset SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
Channel Description 1 - Channel Type and TDMA offset SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
- Channel Type and TDMA offset SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	s)
SDCCH/8, with subchannel chosen arbitrarily by the house; For combined CCCH/SDCCH (default SS	
house; For combined CCCH/SDCCH (default SS	
	arily
by the test house.	amy
- Timeslot Number For non-combined CCCH/SDCCH (see test condition	c)
chosen arbitrarily by the test house; For combined	5),
CCCH/SDCCH (default SS conditions), SDCCH/4,	
	``
- Training Sequence Code For non-combined CCCH/SDCCH (see initial conditi	ns),
chosen arbitrarily by the test house; For combined	
CCCH/SDCCH (default SS	
conditions), SDCCH/4, TSC=5 (same as the BCC).	
- Hopping Single RF channel.	
- ARFCN For non-combined CCCH/SDCCH (see initial	
conditions),Channel number 30; For combined	
CCCH/SDCCH (default SS conditions), SDCCH/4,	
Channel number 457.	
Request Reference 1 Pertaining to last Channel Request sent by the MS.	
Timing Advance 1	
- Timing advance value Chosen arbitrarily by the test house.	
Channel Description 2	
- Channel Type and TDMA offset Same channel type as in Channel Description 1, but	
different TDMA offset to that in Channel Description	
- Timeslot Number equal to the value in Channel Description 1.	•
- Training Sequence Code equal to the value in Channel Description 1.	
- Hopping Single RF channel. - ARFCN equal to the value in Channel Description 1.	
	40
Request Reference 2 Not pertaining to any Channel Requests sent by the	/15.
Timing Advance 2	
- Timing advance value Chosen arbitrarily by the test house.	
Mobile Allocation	
- Length 0	
Starting Time Not present.	
IAX rest octets Not used (all bits set to spare).	

Contents of IMMEDIATE ASSIGNMENT REJECT message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111010
Page Mode	
- Page Mode	Normal Paging.
Request Reference	Pertaining to last Channel Request sent by the MS.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
IAR rest octets	Not used (all bits set to spare).

Contents of LOCATION UPDATING REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X001000
Other information elements	Not checked.

Contents of PAGING REQUEST TYPE 1 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P1 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 9.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100001
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
 odd/even indication 	Even.
- Type of Identity	TMSI.
- Identity Digits	TMSI previously allocated to MS.
Mobile Identity 2	Not present.
P1 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 2 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P2 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100010
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile Identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile Identity	Not present.
P2 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 3 message:

1.2 paquela longth	19
L2 pseudo length	
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100100
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile identity 3	
- TMSI value	TMSI not allocated to MS.
Mobile identity 4	
- TMSI value	TMSI not allocated to MS.
P3 rest octets	Not used (all bits set to spare).

Contents of PAGING RESPONSE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100111
Ciphering Key Sequence Number	
- Key Sequence	Key sequence number previously allocated to MS, or
	"111" if no key is available.
Mobile Station Classmark 2	
Mobile Identity	
- odd/even indication	Even
- Type of identity	TMSI
- Identity Digits	TMSI previously allocated to MS.

Contents of PHYSICAL INFORMATION message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101101
Timing advance	20 bit periods.

Contents of SETUP message; (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	any value from the set {0,, 6}.
TI flag	0
Message Type	0X000101
Other information elements	Not checked.

26.13.1.6.6 Default contents of GSM 850 layer 3 messages for RR tests

This subclause contains the default values of GSM 850 L3 messages, which unless indicated otherwise in subclause 26.13 shall be transmitted by the system simulator and which are required to be received from the GSM 850 MS under test.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements that are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

In this section, decimal values are normally used. However, so metimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

Default SYSTEM INFORMATION:

NOTE 1: SYSTEM INFORMATION 2 bis, SYSTEM INFORMATION 5 bis, SYSTEM INFORMATION 7, and SYSTEM INFORMATION 8 messages are not used.

Cell A

Contents of information elements in SYSTEM INFORMATION TYPE 1 to 6 messages for cell A.

	ų
(CBCH) Channel Description	Not present.
(CBCH) Mobile Allocation	Not present.
Cell Channel Description	
- Format identifier	128 range.
- Cell Allocation ARFCN	Channels 147, 157, 177 and 197.
Cell Identity	
- Cell Identity Value	0001H
Cell Options	
- Power Control Indicator	Power Control Indicator is not set.
- DTX Indicator	MS shall not use DTX.
- Radio_Link_Timeout	8 SACCH blocks.
Cell Selection Parameters	
- Cell_Reselect_Hysteresis	12 dB.
- MX_TXPWR_MAX_CCH	Minimum level.
	No addition cell parameters are present in SYSTEM
- AC3	
NECL	INFORMATION messages 7 and 8.
	New establishment causes not supported.
- RXLEV_ACCESS_MIN	Minimum level.
Control Channel Description	
- Attach-Detach allowed	No Attach/Detach.
- BS_AG_BLKS_RES	0 blocks reserved for access grant.
- CCCH_CONF	1 basic physical channel used for CCCH, combined with
	SDCCHs.
- BS_PA_MFR MS	5 multiframe periods for transmission of paging
	messages.
- T3212 Time-out value	Infinite.
L2 pseudo length	
- System information 1	21
- System information 2	22
- System information 3	18
- System information 4	12
Location Area Identification	
- Mobile Country Code	001 decimal
- Mobile Network Code	01 decimal
- Location Area Code	0001H
Message Type	
- System information 1	00011001
- System information 2	00011010
- System information 3	00011011
- System information 4	00011100
- System information 5	00011101
- System information 6	00011110
Neighbour Cells Description	
- Format identifier	128 range.
- BCCH Allocation Sequence	
- BCCH Allocation ARFCN	Channels 137, 147, 167, 207, 217, 227, 237 and 247.
- EXT-IND	This IE carries the complete BA.
NCC Permitted	0000 0010
RACH Control Parameters	
- Max Retrans	Max1 retrans.
- Tx-integer	5 slots used.
- Cell Barred for Access	Cell is not barred.
- Call Reestablishment Allowed	Not allowed.
- Access Control Class	Access is not barred.
- Emergency Call allowed	Yes.
SI 1 rest octets	Not used (all bits are set to spare).
SI 2 rest octets	Not used (all bits are set to spare).
SI 3 rest octets	Not used (all bits are set to spare).
SI 4 rest octets	Not used (all bits are set to spare).
0141601001610	livor useu (all bib ale ser lo spale).

Default settings for cell A:

Downlink input level	63 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	147

Cell B

The contents of SYSTEM INFORMATION TYPE 1 to 6 messages for cell B are identical to those of cell A with the following exceptions:

Cell Channel Description	
- Format Identifier	128 range.
- Cell Allocation ARFCN	Channel Number 137.

NOTE 2: This IE needs modification when used in handover tests that command the MS to go to a frequency hopping channel in cell B.

Cell Identity

- Cell Identity Value: 0002H.

Default settings for cell B:

Downlink input level	53 dBmicroVolt emf.
Uplink output power	minimum supported by the MS's power class.
Propagation profile	static.
BCCH/CCCH carrier number	137

Contents of ALERTING message (SS to MS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000001
All other information elements	Not present.

Contents of ASSIGNMENT COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101110
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 157.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of ASSIGNMENT COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101001
RR Cause	
- RR Cause Value	Normal event.

Contents of ASSIGNMENT FAILURE message:

RR Management. 0000	
00101111	
Depending on test	
	0000

Contents of AUTHENTICATION REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	00010010
Ciphering Key Sequence Number - Key Sequence	Chosen arbitrarily by the test house from the range 0 to 6.
Authentication Parameter RAND - RAND value	Chosen arbitrarily by the test house.

Contents of AUTHENTICATION RESPONSE message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X010100
Other information element(s)	Not checked.

Contents of CALL PROCEEDING message:

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	1 (destination side).
Message Type	0000010
All other information elements	Not present.

Contents of CHANNEL MODE MODIFY message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010000
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Channel number 157.
Channel Mode	
- Mode	Depending on test.

Contents of CHANNEL MODE MODIFY ACKNOWLEDGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00010111
Channel Description 2	
- Channel Type and TDMA offset	Depending on test.
- Timeslot Number	Same as in the CHANNEL MODE MODIFY message.
- Training Sequence Code	Same as in the CHANNEL MODE MODIFY message.
- Hopping	Single RF channel.
- Frequency Band	Band number 0.
- ARFCN	Channel number 157.
Channel Mode	
- Mode	Same as in the CHANNEL MODE MODIFY message.

Contents of CHANNEL RELEASE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00001101
RR Cause	
- RR Cause Value	Normal event.

Contents of CHANNEL REQUEST message

Establishment Cause	Not checked.
Random Reference	Not checked.

Contents of CIPHERING MODE COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110101
Cipher Mode Setting	
- algorithm identifier	cipher with A5/1.
- SC	Start ciphering.
Cipher Response	IMEI shall not be included.

Contents of CIPHERING MODE COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00110010
Mobile Identity	Not present.

Contents of the CLASSMARK CHANGE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	000100110
Mobile Station Classmark 2	See PICS/PIXIT.
Mobile Station Classmark 3	For presence and contents see PICS/PIXIT.

Contents of CM SERVICE ACCEPT message:

Protocol Discriminator	Mobility Management.
Skip Indicator	0000
Message Type	00100001

Contents of CM SERVICE REQUEST message

Protocol Discriminator	Mobility Management.	
Skip Indicator	0000	
Message Type	0X100100	
Other information elements	Not checked.	

Contents of CONFIGURATION CHANGE COMMAND message (SS to MS)

Protocol Discriminator	Radio Resource	
Skip Indicator	0000	
Message type	00110000	
Multislot allocation	Appropriate for the test	
- Downlink assignment	Appropriate for the test	
- Uplink assignment	Appropriate for the test	
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	
Channel mode 1= <x<=8< td=""><td>Appropriate for the test</td><td></td></x<=8<>	Appropriate for the test	

Contents of CONFIGURATION CHANGE ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110001

Contents of CONFIGURATION CHANGE REJECT message (MS to SS)

Protocol Discriminator	Radio Resource
Skip Indicator	0000
Message type	00110011
RR Cause	Protocol Error Unspecified

Contents of CONNECT message (SS to MS)

Protocol Discriminator Transaction Identifier	Call Control.
TI value	As used in the SETUP message.
TI flag	1
Message Type	00000111
All other information elements	Not present.

Contents of CONNECT ACKNOWLEDGE message (MS to SS)

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	As used in the SETUP message.
TI flag	0
Message Type	0X001111

Contents of HANDOVER ACCESS message:

Handover Reference	Equal to the value included in the Handover Command
	message.

Contents of HANDOVER COMMAND message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101011
Cell Description	
- Network Colour Code	1
 Base station Colour Code 	Corresponding to target cell
- BCCH Carrier Number	Set to the BCCH carrier number of cell B. (one of 137, 147, 207, 217, 227, 237 or 247).
Channel Description 2	
- Channel Type and TDMA offset	Bm + ACCHs.
- Timeslot Number	Chosen arbitrarily by the test house.
- Training Sequence Code	Chosen arbitrarily by the test house.
- Hopping	Single RF channel.
- ARFCN	Chosen arbitrarily by the test house from those supported
	on the target cell.
Handover Reference	
- Handover Reference Value	Chosen arbitrarily by the test house.
Power Command	
- Power level	Chosen arbitrarily by the test house.
Multislot allocation	
- Downlink assignment	Appropriate for the test
- Uplink assignment	Appropriate for the test
- Channel set 1= <x<=8< td=""><td>Appropriate for the test</td></x<=8<>	Appropriate for the test
Channelmode	Appropriate for the test

Contents of HANDOVER COMPLETE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101100
RR cause	Normal event.
Time difference	Not present.

Contents of HANDOVER FAILURE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101000
RR cause	Dependent on the test.

Contents of IMMEDIATE ASSIGNMENT message:

L 2 pa auda lan ath	This is the sum of the lengths of all the information
L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IA rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111111
Page Mode	
- Page Mode	Normal Paging.
Channel Description	
- Channel Type and TDMA offset	For non-combined CCCH/SDCCH (see initial conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
Training Seguence Code	
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial conditions),
	Channel number 157; For combined CCCH/SDCCH
	(default SS conditions), SDCCH/4, Channel number 20.
Request Reference	Pertaining to last Channel Request sent by the MS.
Timing Advance	
- Timing advance value	30 bit periods.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IA rest octets	1
IA rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT EXTENDED message:

1.2 pa auda lan ath	This is the sum of the lengths of all the information
L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the IAX rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 18.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111001
Page Mode	
- Page Mode	Normal Paging.
Channel Description 1	
 Channel Type and TDMA offset 	For non-combined CCCH/SDCCH (see test conditions),
	SDCCH/8, with subchannel chosen arbitrarily by the test
	house; For combined CCCH/SDCCH (default SS
	conditions), SDCCH/4, with subchannel chosen arbitrarily
	by the test house.
- Timeslot Number	For non-combined CCCH/SDCCH (see test conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	timeslot zero.
- Training Sequence Code	For non-combined CCCH/SDCCH (see initial conditions),
	chosen arbitrarily by the test house; For combined
	CCCH/SDCCH (default SS
	conditions), SDCCH/4, TSC=5 (same as the BCC).
- Hopping	Single RF channel.
- ARFCN	For non-combined CCCH/SDCCH (see initial
	conditions),Channel number 30; For combined
	CCCH/SDCCH (default SS conditions), SDCCH/4,
	Channel number 147.
Request Reference 1	Pertaining to last Channel Request sent by the MS.
Timing Advance 1	
- Timing advance value	Chosen arbitrarily by the test house.
Channel Description 2	
- Channel Type and TDMA offset	Same channel type as in Channel Description 1, but
	different TDMA offset to that in Channel Description 1.
- Timeslot Number	equal to the value in Channel Description 1.
- Training Sequence Code	equal to the value in Channel Description 1.
- Hopping - ARFCN	Single RF channel. equal to the value in Channel Description 1.
Request Reference 2	Not pertaining to any Channel Requests sent by the MS.
	not pertaining to any channel Requests sent by the MS.
Timing Advance 2	Chap an arbitrarily by the test have a
- Timing advance value	Chosen arbitrarily by the test house.
Mobile Allocation	
- Length	0
Starting Time	Not present.
IAX rest octets	Not used (all bits set to spare).

Contents of IMMEDIATE ASSIGNMENT REJECT message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00111010
Page Mode	
- Page Mode	Normal Paging.
Request Reference	Pertaining to last Channel Request sent by the MS.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
Request Reference	Not pertaining to the MS under test.
Wait Indication	0 s.
IAR rest octets	Not used (all bits set to spare).

Contents of LOCATION UPDATING REQUEST message:

Protocol Discriminator	MM message.
Skip Indicator	0000
Message Type	0X001000
Other information elements	Not checked.

Contents of PAGING REQUEST TYPE 1 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P1 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 9.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100001
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
 odd/even indication 	Even.
- Type of Identity	TMSI.
- Identity Digits	TMSI previously allocated to MS.
Mobile Identity 2	Not present.
P1 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 2 message:

L2 pseudo length	This is the sum of the lengths of all the information
	elements present in the message except for the P2 rest
	octets and L2 pseudo length IEs. For the default message
	the L2 pseudo length is 11.
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100010
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile Identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile Identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile Identity	Not present.
P2 rest octets	Not used (all bits set to spare).

Contents of PAGING REQUEST TYPE 3 message:

L2 pseudo length	19
Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100100
Page Mode	
- Page Mode	Normal Paging.
Channels needed	
- first channel	any channel.
- second channel	any channel.
Mobile identity 1	
- TMSI value	TMSI previously allocated to MS.
Mobile identity 2	
- TMSI value	TMSI not allocated to MS.
Mobile identity 3	
- TMSI value	TMSI not allocated to MS.
Mobile identity 4	
- TMSI value	TMSI not allocated to MS.
P3 rest octets	Not used (all bits set to spare).

Contents of PAGING RESPONSE message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00100111
Ciphering Key Sequence Number	
- Key Sequence	Key sequence number previously allocated to MS, or
	"111" if no key is available.
Mobile Station Classmark 2	
Mobile Identity	
- odd/even indication	Even
- Type of identity	TMSI
- Identity Digits	TMSI previously allocated to MS.

Contents of PHYSICAL INFORMATION message:

Protocol Discriminator	RR Management.
Skip Indicator	0000
Message Type	00101101
Timing advance	20 bit periods.

Contents of SETUP message; (MS to SS):

Protocol Discriminator	Call Control.
Transaction Identifier	
TI value	any value from the set {0,, 6}.
TI flag	0
Message Type	0X000101
Other information elements	Not checked.

26.13.2 Multislot signalling / CC

- 26.13.2.1 Multislot signalling / CC / In-call functions
- 26.13.2.1.1 Multislot signalling / CC / In-call functions / User initiated service level upgrade / successful

26.13.2.1.1.1 Definition

Multislot connection is established. Multislot configuration with one TCH/F is allocated. User initiated service level upgrade is successfully performed.

26.13.2.1.1.2 Conformance requirements

- 1) MS shall send MODIFY message to SS indicating that User initiated service level upgrade is initiated.
- 2) MS enters CC state 'Mobile originating modify (U26)' after sending MODIFY.
- 3) MS enters CC state 'Active (U10)' when MODIFY COMPLETE is received.

References

Conformance requirement 1:3GPP TS 04.08 / 3GPP TS 24.008, subclause 9.3.13.Conformance requirement 2:3GPP TS 04.08 / 3GPP TS 24.008, subclause 5.3.5.1.Conformance requirement 3:3GPP TS 04.08 / 3GPP TS 24.008, subclause 5.3.5.2.

26.13.2.1.1.3 Test purpose

- To verify that the procedure is initiated by the MS in the "active" state of a multislot connection. It sends a MODIFY message including the wanted value of the "maximum number of traffic channels" and/or the "wanted air interface" parameters; and enters the "mobile originating modify" state. Other parameters of the bearer capability given in MODIFY message and already negotiated and agreed during the establishment phase of the call, may not be changed.
- 2) To verify that upon receipt of the MODIFY COMPLETE message with bearer capability negotiated at call setup in the MS enters the "active" state.

26.13.2.1.1.4 Method of test

Initial conditions

Mobile station:

- MS in the active state of a service using a multislot connection.

System simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen final state of the MS

MS is in the active state of a service using a multislot connection.

Test procedure

MS is in the active state of a multislot connection. Multislot configuration with one TCH/F is allocated. User initiates User initiated service level upgrade by sending MODIFY message including the wanted value of the Maximum number of traffic channels, this being one supported by the MS and channel modes supported by the MS. The MS enters 'mobile originating modify' state. This is verified by a status enquiry procedure.

MS receives MODIFY COMPLETE message from SS and enters the 'active' state. This is verified by a status enquiry procedure.

Maximum duration of test

3 minutes.

Expected sequence

Step	Direction	Message	Comments
1	MS -> SS	MODIFY	User initiated service level upgrade is initiated.
2	MS		MS enters the Mobile originating modify state
3	SS -> MS	STATUS ENQUIRY	
4	MS -> SS	STATUS	Cause shall be 30# (response to enq.) and state U26
			Mobile originated modify.
5	SS -> MS	MODIFYCOMPLETE	
6	MS		MS enters the active state
7	SS -> MS	STATUS ENQUIRY	
8	MS -> SS	STATUS	Cause shall be 30# (response to enq.) and state U10
			Active.

Specific message contents

MODIFY

Information element	Value/remark
Bearer capability	Maximum number of TCH/F's the MS is able to support
	and channel modes supported by the MS
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

26.13.2.1.2 Multislot signalling / CC / In-call functions / User initiated service level downgrade / successful

25.13.2.1.2.1 Definition

Multislot connection is established. Multislot configuration has the maximum number of timeslots supported by the MS. User initiated service level downgrade is successfully performed.

26.13.2.1.2.2 Conformance requirements

- 1) MS shall send MODIFY message to SS indicating that User initiated service level downgrade is initiated.
- 2) MS enters CC state 'Mobile originating modify (U26)' after sending MODIFY.
- 3) MS enters CC state 'Active (U10)' when MODIFY COMPLETE is received.

References

Conformance requirement 1:	3GPP TS 04.08 / 3GPP TS 24.008, subclause 9.3.13.
Conformance requirement 2:	3GPP TS 04.08 / 3GPP TS 24.008, subclause 5.3.5.1.
Conformance requirement 3:	3GPP TS 04.08 / 3GPP TS 24.008, subclause 5.3.5.2.

26.13.2.1.2.3 Test purpose

- To verify that the procedure is initiated by the MS in the "active" state of a multislot connection. It sends a MODIFY message including the wanted value of the "maximum number of traffic channels" and/or the "wanted air interface" parameters; and enters the "mobile originating modify" state. Other parameters of the bearer capability given in MODIFY message and already negotiated and agreed during the establishment phase of the call, may not be changed.
- 2) To verify that upon receipt of the MODIFY COMPLETE message with bearer capability negotiated at call setup in the MS enters the "active" state.

26.13.2.1.2.4 Method of test

Initial conditions

Mobile station:

- MS in the active state of a service using a multislot connection. Multislot configuration has maximum number of timeslots supported by the MS.

System simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen final state of the MS

MS is in the active state of a service using a multislot connection.

Test procedure

MS in the active state of a multislot connection. Multislot configuration has maximum number of timeslots supported by the MS. User initiates User initiated service level downgrade by sending MODIFY message including the wanted value of the Maximum number of traffic channels, this being one supported by the MS and channel modes supported by the MS. The MS enters 'mobile originating modify' state. This is verified by a status enquiry procedure.MS receives MODIFY COMPLETE message from SS and enters the active state. This is verified by a status enquiry procedure.

Maximum duration of test

3 minutes.

Expected sequence

Step	Direction	Message	Comments
1	MS -> SS	MODIFY	User initiated service level downgrade is initiated.
2	MS		MS enters the Mobile originating modify state
3	SS -> MS	STATUS ENQUIRY	
4	MS -> SS	STATUS	Cause shall be 30# (response to enq.) and state U26
			Mobile originated modify.
5	SS -> MS	MODIFYCOMPLETE	
6	MS		MS enters the active state
7	SS -> MS	STATUS ENQUIRY	
8	MS -> SS	STATUS	Cause shall be 30# (response to enq.) and state U10
			Active.

Specific message contents

MODIFY

Information element	Value/remark
Bearer capability	One TCH/F is indicated and the channel modes supported
	by the MS
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

26.13.2.1.3 Multislot signalling / CC / In-call functions / User initiated service level upgrade / Time-out of timer T323

26.13.2.1.3.1 Definition

Multislot connection is established. Multislot configuration with one TCH/F is allocated. User initiated service level upgrade is requested. Timer T323 expires. Call is cleared.

26.13.2.1.3.2 Conformance requirements

- 1) MS shall send MODIFY message to SS indicating that User initiated service level upgrade is initiated.
- 2) After timer T323 has expired MS starts call clearing by sending DISCONNECT message.
- 3) After receipt of RELEASE message the MS sends RELEASE COMPLETE message and goes to idle updated state.

References

Conformance requirement 1:	3GPP TS 04.08 / 3GPP TS 24.008, subclause 9.3.13.
Conformance requirement 2:	3GPP TS 04.08 / 3GPP TS 24.008, subclause 9.3.7.
Conformance requirement 3:	3GPP TS 04.08 / 3GPP TS 24.008, subclauses 9.3.18 and 5.4.4.2.2, 3GPP TS 04.08 / 3GPP TS 44.018, subclause 9.1.7.

26.13.2.1.3.3 Test purpose

1) To verify that upon expiration of T323 (accuracy ± 10%) the MS shall initiate the procedures for call clearing with cause #102 "recovery on timer expiry".

26.13.2.1.3.4 Method of test

Initial conditions

Mobile station:

- MS in the active state of a service using a multislot connection.

System simulator:

- 1 cell, default parameters

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen final state of the MS

"Idle, updated", with TMSI allocated.

Test procedure

MS is in the active state of a multislot connection. Multislot configuration with one TCH/F is allocated. User initiates User initiated service level upgrade by sending MODIFY message including the wanted value of the Maximum number of traffic channels, this being one supported by the MS and channel modes supported by the MS.

Timer T323 expires and MS starts call clearing procedure by sending DISCONNECT message to SS. After MS receives RELEASE message it sends RELEASE COMPLETE message. SS sends CHANNEL RELEASE message to MS and the main signalling link is released.

Maximum duration of test

3 minutes.

Expected sequence

Step	Direction	Message	Comments
1	MS -> SS	MODIFY	User initiated service level upgrade is initiated.
2	MS		Timer T323 expires
3	MS -> SS	DISCONNECT	Cause = #102 "recovery on timer expiry"
4	SS -> MS	RELEASE	
5	MS -> SS	RELEASE COMPLETE	
6	SS -> MS	CHANNEL RELEASE	The main signalling link is released

Specific message contents

MODIFY

Information element	Value/remark
Bearer capability	Maximum number of TCH/F's the MS is able to support
	and channel modes supported by the MS
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

26.13.2.1.4 Multislot signalling / CC / In-call functions / User initiated service level upgrade / modify reject

26.13.2.1.4.1 Definition

Multislot connection is established. Multislot configuration with one TCH/F is allocated. User initiated service level upgrade is requested. SS responds to upgrade request by rejecting it. MS enters the active multislot connection state.

26.13.2.1.4.2 Conformance requirements

- 1) MS shall send MODIFY message to SS indicating that User initiated service level upgrade is initiated.
- 2) MS enters CC state 'Mobile originating modify (U26)' after sending MODIFY.
- 3) MS enters CC state 'Active (U10)' when MODIFY REJECT is received.

References

Conformance requirement 1: 3GPP TS 04.08 / 3GPP TS 24.008, subclause 9.3.13.

Conformance requirement 2: 3GPP TS 04.08 / 3GPP TS 24.008, subclause 5.3.5.1.

Conformance requirement 3: 3GPP TS 04.08 / 3GPP TS 24.008, subclause 5.3.5.3.

26.13.2.1.4.3 Test purpose

1) To verify that upon receipt of the MODIFY REJECT message with the bearer capability negotiated at the call setup, the MS is continuously sending user information according to current call mode.

26.13.2.1.4.4 Method of test

Initial conditions

Mobile station:

- MS in the active state of a service using a multislot connection.

System simulator:

- 1 cell, default parameters

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

Foreseen final state of the MS

MS is in the active state of a service using a multislot connection.

Test procedure

MS is in the active state of a multislot connection. Multislot configuration with one TCH/F is allocated. Then user initiates User initiated service level upgrade by sending MODIFY message including the wanted value of the Maximum number of traffic channels, this being one supported by the MS and channel modes supported by the MS. The MS enters 'mobile originating modify' state. This is verified by a status enquiry procedure.SS responds to MODIFY message by sending MODIFY REJECT message to MS. MS enters the active state. This is verified by a status enquiry procedure.Maximum duration of test

1 minute.

Expected sequence

Step	Direction	Message	Comments
1	MS -> SS	MODIFY	User initiated service level upgrade is initiated.
2	SS -> MS	STATUS ENQUIRY	
3	MS -> SS	STATUS	Cause shall be 30# (response to enq.) and state U26 Mobile originated modify.
4	SS -> MS	MODIFY REJECT	Cause = #58 "bearer capability not presently available".
5	MS		MS enters in the active state of multislot call
6	SS -> MS	STATUS ENQUIRY	
7	MS -> SS	STATUS	Cause shall be 30# (response to enq.) and state U10 Active.

Specific message contents

MODIFY

Information element	Value/remark
Bearer capability	Maximum number of TCH/F's the MS is able to support
	and channel modes supported by the MS
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

26.13.2.1.5 Multislot signalling / CC / In call functions / contents of some of the messages

The following messages are used for testing in-call modification procedures, test cases 26.13.2.1.*, as default messages for those ones defined below. If any other values are defined in the expected sequence of the actual test cases, those values take precedence over the ones defined hereafter.

SETUP (MS to SS)

Information element	Value/remark	
BC Repeat indicator	Omitted	
Bearer capability 1	Appropriate for the teleservice/Bearer Service selected as	
	an initial call mode	
Bearer capability 2	Omitted	
Facility	Omitted	
Calling party subaddress	Omitted	
Called party BCD number	As entered	
Called party subaddress	Omitted	
LLC repeat indicator	Omitted	
Low layer compatibility I	See note	
Low layer compatibility II	Omitted	
HLC repeat indicator	Omitted	
High layer compatibility I	See note	
High layer compatibility ii	Omitted	
User-user	Omitted	
SS version	Omitted	
CLIR suppression	Omitted	
CC Capabilities	present, but contents not checked	
NOTE: HLC/LLC may or may not be present. The contents of HLC/LLC are not verified.		

CALL PROCEEDING

Information element	Value/remark
Repeat Indicator	Omitted
Bearer Capability 1	3GPP TS 04.08 / 3GPP TS 24.008 subdause 10.5.4.5
Bearer Capability 2	Omitted
Facility	Omitted
Progress indicator	Omitted

MODIFY

Information element	Value/remark
Bearer capability	Appropriate for the selected test
Low layer comp. High layer comp. Reverse call setup direction	Appropriate for the basic service selected for the test Appropriate for the basic service selected for the test Presence and value not checked

MODIFY COMPLETE

Information element	Value/remark
Bearer capability	Appropriate for the selected test
Low layer comp. High layer comp.	Appropriate for the basic service selected for the test Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

MODIFY REJECT

Information element	Value/remark
Bearer capability	Appropriate for the selected test
Cause	#58 "bearer capability not presently available".
Low layer compatibility	Appropriate for the basic service selected for the test
High layer compatibility	Appropriate for the basic service selected for the test

26.13.3 Multislot signalling / Structured procedures

26.13.3.1 Multislot signalling / Structured procedures / MS originated call / early assignment / HSCSD / non-transparent

26.13.3.1.1 Conformance requirements

- 1) An MS in MM state "idle, updated" and in RR idle mode, when made to initiate a call, if it provides a human interface, shall display the dialled number.
- 2) An MS in MM state "idle, updated" and in RR idle mode, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS, starts to initiate the immediate assignment procedure by sending a CHANNEL REQUEST message with correct establishment cause.
- 3) Subsequently after establishment of a MM connection, after MS sends its multislot class in CLASSMARK CHANGE message, the MS shall send a SETUP message with correct parameters.
- 4) The call control entity of the Mobile Station in the "call initiated" state, in the "mobile originating call proceeding" state or in the "call delivered" state, shall, upon receipt of a CONNECT message:
 - 4.1) attach the user connection to the radio path;
 - 4.2) return a CONNECT ACKNOW LEDGE message;
 - 4.3) establish the RLP link.
- 5) User initiated service level upgrade is initiated by sending MODIFY message. After receipt of MODIFY COMPLETE message MS enters the active state.
- 6) After receipt of a CONFIGURATION CHANGE COMMAND message MS sends CONFIGURATION CHANGE ACKNOW LEDGE message.
- 7) Subsequently when the network initiates call clearing by sending a DISCONNECT message, the MS shall proceed to release the call by sending a RELEASE message.
- 8) On receipt of a CHANNEL RELEASE message, the MS shall disconnect the main signalling link.
- NOTE: Requirements 5 and 6 are only applicable to Multislot Class 2 and above.

Reference

Conformance requirement 1:	3GPP TS 02.07.
Conformance requirement 2:	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.1.1, 9.1.8 and 9.1.18.
Conformance requirement 3:	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.10, 9.1.11 and 9.3.23.
Conformance requirement 4:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.5 and 9.3.6, 3GPP TS 07.01 clause 8.
Conformance requirement 5:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.13 and 9.3.14.
Conformance requirement 6:	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 9.1.12b and 9.1.12c.
Conformance requirement 7:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 5.4.4.2.2, 9.3.7 and 9.3.18.
Conformance requirement 8:	3GPP TS 04.08 / 3GPP TS 44.018 subclause 9.1.7.

26.13.3.1.2 Test purpose

- To verify that the MS in MM state "idle, updated" with a TMSI assigned, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS as declared in a PICS/PIXIT statement, displays the dialled number in the way described in a PICS/PIXIT statement.
- 2) To verify that the MS in MM state "idle, updated" and in RR idle mode, with a TMSI assigned, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS as declared in a

PICS/PIXIT statement, starts to initiate an immediate assignment procedure by sending the CHANNEL REQUEST message with correct establishment cause.

- 3) To verify that subsequently after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after completion of establishment of the main signalling link, after having sent a CM SERVICE REQUEST message, after MS sends it's multislot class in CLASSMARK CHANGE message, after having successfully performed the authentication and cipher mode setting procedures, the MS sends a SETUP message with correct parameters.
- 4) Multislot configuration with one TCH/F is allocated. To verify that subsequently, after receipt of a CALL PROCEEDING message and of an ASSIGNMENT COMMAND message allocating an appropriate TCH, after having completed the early assignment procedure by replying with the ASSIGNMENT COMPLETE message, after receipt of an ALERTING message and a CONNECT message, the MS returns a CONNECT ACKNOW LEDGE message.
- 5) To verify that subsequently the MS has attached the user connection to the radio path. This is verified by checking that the MS establishes the RLP link correctly and sends and receives correct RLP frames in each data block.
- 6) To verify that subsequently upon user requests User initiated service level upgrade, the MS sends MODIFY message and after receipt of MODIFY COMPLETE message the MS enters the active state.
- 7) To verify that subsequently, after receipt of a CONFIGURATION CHANGE COMMAND, after MS sends CONFIGURATION CHANGE ACKNOW LEDGE, MS through connects all bi-directional channel(s) in multislot configuration in both directions and all uni-directional channels in downlink direction. Multislot configuration is upgraded from the simplest case up to the maximum number of channels supported by MS in the HSCSD configuration. This is verified by checking that the MS sends and receives correct RLP frames in each data block.
- 8) To verify that subsequently upon the network initiating call clearing by sending a DISCONNECT message, the MS proceed to release the call with RELEA SE.
- 9) To verify that subsequently, on receipt of a RELEASE COMPLETE message followed by a CHANNEL RELEASE message, the MS disconnects the main signalling link.

NOTE: Items 6 and 7 are only applicable to Multislot Class 2 and above.

26.13.3.1.3 Method of test

Initial conditions

Mobile Station:

- The MS is in MM-state "idle, updated" with valid TMSI and CKSN.

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

- Way to display the called number

Foreseen final state of the MS

MS is in MM-state "idle, updated" with valid TMSI and CKSN.

Test procedure

The MS is made to initiate a HSCSD connection. The call is established with early assignment. MS enters the active state. Multislot configuration with one TCH/F is allocated. User initiated service level upgrade is successfully

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performed. The SS sends CONFIGURATION CHANGE COMMAND message to MS and it reply's with CONFIGURATION CHANGE ACKNOW LEDGE message. This is repeated from simplest case up to the maximum number of channels supported by the MS in the HSCSD configuration (this is performed within highest multislot class that the MS supports).

Maximum duration of test

7 minutes.

Expected Sequence

An MS supporting Multilsot Class 1 need only perform steps 1..20 and 25..28.

Step	Direction	Message	Comments
1	MS		The "called number" is entered
2	MS		Ifsupported, the MS must display the called number in the way defined in PICS/PIXIT.
3	MS -> SS	CHANNEL REQUEST	Establishment cause is "Originating call and TCH/F is
Ũ			needed, or originating call and the network does not set
			NECI bit to 1"
4	SS -> MS	IMMEDIATE ASSIGNMENT	
5	MS -> SS	CM SER VICE REQUEST	Message is contained in SABM
6	MS -> SS	CLASSMARK CHANGE	Multislot class
7	SS -> MS	AUTHENTIC ATION REQUEST	
8	MS -> SS	AUTHENTIC ATION RESPONSE	SRES specifies correct value.
9	SS -> MS	CIPHERING MODE COMMAND	SS starts deciphering after sending the message.
10	MS -> SS	CIPHERING MODE COMPLETE	Shall be sent enciphered. All following messages shall be sent enciphered.
11	SS		SS starts ciphering.
12	MS -> SS	SETUP	Non-transparent connection
13	SS -> MS	CALL PROCEEDING	
14	SS -> MS	ASSIGNMENT COMMAND	In multislot allocation only one timeslot is allocated.
15	MS -> SS	ASSIGNMENT COMPLETE	
16	SS -> MS	ALERTING	
17	MS		
18	SS -> MS	CONNECT	
19	MS -> SS	CONNECT ACKNOWLEDGE	The environments because channel is through connected in
20	MS		The appropriate bearer channel is through connected in both directions. The RLP link establishment is initiated by
			the MS.
21	MS -> SS	MODIFY	User initiated service level upgrade is initiated
22	SS -> MS	MODIFYCOMPLETE	Oser initiated service level upgrade is initiated
23	MS		MS enters the active state
24	NIC		Next three steps are performed as many times as used
- ·			multislot class has different channel combinations.
			Timeslot allocation starts from simplest case and is
			upgraded up to the maximum that MS multislot class
			supports, one step at the time (within highest multislot
			class that the MS supports).
24A	SS -> MS	CONFIGURATION CHANGE	Appropriate number of timeslots is selected.
		COMMAND	
24B	MS -> SS		
24C	MS	ACKNOWLEDGE	TCH(s) shall be through connected in both directions
25	SS -> MS	DISCONNECT	
26	MS -> SS	RELEASE	
27	SS -> MS	RELEASE COMPLETE	
28	SS -> MS	CHANNEL RELEASE	The main signalling link is released

26.13.3.2 Multislot signalling / Structured procedures / MS originated call / late assignment / HSCSD / non-transparent

26.13.3.2.1 Conformance requirements

- 1) An MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS, shall start to initiate an immediate assignment procedure by sending the CHANNEL REQUEST message with correct establishment cause.
- 2) Subsequently after establishment of a MM connection, after MS sends its multislot class in CLASSMARK CHANGE message, the MS shall send a SETUP message with correct para meters.
- 3) Upon receipt of the ASSIGNMENT COMMAND message, the Mobile Station initiates a local end release of link layer connections, disconnects the physical channels, commands the switching to the assigned channels and initiates the establishment of lower layer connections (this includes the activation of the channels, their connection and the establishment of the data links). After the main signalling link is successfully established, the MS returns an ASSIGNMENT COMPLETE message, specifying cause "normal event", to the network on the main DCCH.
- 4) The call control entity of the Mobile Station in the "call initiated" state, in the "mobile originating call proceeding" state or in the "call delivered" state, shall, upon receipt of a CONNECT message:
 - 4.1) attach the user connection to the radio path;
 - 4.2) return a CONNECT ACKNOW LEDGE message;
 - 4.3) establish the RLP link.
- 5) MS sends User initiated service level upgrade with MODIFY message and after receipt of MODIFY COMPLETE message the MS enters the active state.
- 6) MS receives CONFIGURATION CHANGE COMMAND and answers to it by sending CONFIGURATION CHANGE ACKNOW LEDGE message.
- 7) Subsequently when the network initiates call clearing by sending a DISCONNECT message, the MS shall proceed to release the call by sending a RELEASE message.
- 8) On receipt of a CHANNEL RELEASE message, the MS shall disconnect the main signalling link.

NOTE: Requirements 5 and 6 are only applicable to Multislot Class 2 and above.

Reference

Conformance requirement 1:	3GPP TS 02.07, 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.1.1 and 9.1.8.
Conformance requirement 2:	3GPP TS 04.08 / 3GPP TS 44.018 subclause 9.1.11, 3GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.23.
Conformance requirement 3:	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.3, 9.1.2 and 9.1.3.
Conformance requirement 4:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.5 and 9.3.6, 3GPP TS 07.01 clause 8.
Conformance requirement 5:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.13 and 9.3.14.
Conformance requirement 6:	3GPP TS 04.08 / 3GPP TS $44.018subclauses$ $9.1.12b$ and $9.1.12c.$
Conformance requirement 7:	3GPP TS 04.08 / 3GPP TS $24.008 \ subclauses$ 9.3.7, 9.3.18 and 5.4.4.2.2.
Conformance requirement 8:	3GPP TS 04.08 / 3GPP TS 44.018 subclause 9.1.7.

26.13.3.2.2 Test purpose

1) To verify that the MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS as declared in a

PICS/PIXIT statement, starts to initiate an immediate assignment procedure by sending the CHANNEL REQUEST message.

- 2) Multislot configuration with one TCH/F is allocated. To verify that subsequently after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after completion of establishment of the main signalling link, after having sent a CM SERVICE REQUEST message, after MS sends it's multislot class in CLASSMARK CHANGE message, after having successfully performed the authentication and cipher mode setting procedures, after having sent a SETUP message, after having received of a CALL PROCEEDING message followed by an ALERTING message and an ASSIGNMENT COMMAND message allocating an appropriate TCH, the MS sends an ASSIGNMENT COMPLETE message.
- 3) To verify that subsequently, after the suite of actions specified in test purposes 1 and 2, the MS after receiving a CONNECT message returns a CONNECT ACKNOW LEDGE message.
- 4) To verify that subsequently the MS has attached the user connection to the radio path. This is verified by checking that the MS establishes the RLP link correctly and sends and receives correct RLP frames in each data block.
- 5) To verify that subsequently upon user requests User initiated service level upgrade, the MS sends MODIFY message and after receipt of MODIFY COMPLETE message the MS enters the active state.
- 6) To verify that subsequently, after receipt of a CONFIGURATION CHANGE COMMAND, after MS sends CONFIGURATION CHANGE ACKNOW LEDGE, MS through connects all bi-directional channel(s) in multislot configuration in both directions and all uni-directional channels in downlink direction. Multislot configuration is upgraded from the simplest case up to the maximum number of channels supported by MS in the HSCSD configuration. This is verified by checking that the MS sends and receives correct RLP frames in each data block.
- 7) To verify that subsequently upon the network initiating call clearing by sending a DISCONNECT message, the MS proceed to release the call with RELEASE.
- 8) To verify that subsequently, on receipt of a RELEASE COMPLETE message followed by a CHANNEL RELEASE message, the MS disconnects the main signalling link.
- NOTE: Items 5 and 6 are only applicable to Multislot Class 2 and above.

26.13.3.2.3 Method of test

Initial conditions

Mobile Station:

- The MS is in MM-state "idle, updated" with valid TMSI and CKSN.

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

- Way to display the called number

Foreseen final state of the MS

MS is in MM-state "idle, updated" with valid TMSI and CKSN.

Test procedure

The MS is made to initiate a HSCSD connection. The call is established with late assignment. MS enters the active state. Multislot configuration with one TCH/F is allocated. User initiated service level upgrade is successfully performed. The SS sends CONFIGURATION CHANGE COMMAND message to MS and it reply's with

CONFIGURATION CHANGE ACKNOW LEDGE message. This is done from simplest case up to the maximum number of channels supported by the MS in the HSCSD configuration (this is performed within highest multislot class that MS supports).

Maximum duration of test

7 minutes.

Expected Sequence

An MS supporting Multilsot Class 1 need only perform steps 1..20 and 25..28.

Step	Direction	Message	Comments
1	MS		The "called number" is entered
2	MS		If supported, the MS must display the called number in the
			way defined in PICS/PIXIT.
3	MS -> SS	CHANNEL REQUEST	Establishment cause is "Originating call and TCH/F is
			needed, or originating call and the network does not set
			NECI bit to 1"
4	SS -> MS	IMMEDIATE ASSIGNMENT	
5	MS -> SS	CM SER VICE REQUEST	Message is contained in SABM
6	MS -> SS	CLASSMARK CHANGE	Multislot class
7	SS -> MS	AUTHENTIC ATION REQUEST	
8	MS -> SS	AUTHENTIC ATION RESPONSE	SRES specifies correct value.
9	SS -> MS	CIPHERING MODE COMMAND	SS starts deciphering after sending the message.
10	MS -> SS	CIPHERING MODE COMPLETE	Shall be sent enciphered. All following messages shall be
			sent enciphered.
11	SS		SS starts ciphering.
12	MS -> SS	SETUP	Non-transparent connection
13	SS -> MS	CALL PROCEEDING	
14	SS -> MS	ALERTING	
15	MS		
16	SS -> MS	ASSIGNMENT COMMAND	In multislot allocation only one times lot is allocated.
17	MS -> SS	ASSIGNMENT COMPLETE	
18	SS -> MS	CONNECT	
19	MS -> SS	CONNECT ACKNOWLEDGE	
20	MS		The appropriate bearer channel is through connected in
			both directions. The RLP link establishment is initiated by
04		MODIEV	the MS.
21	MS -> SS	MODIFY	User initiated service level upgrade is initiated
22	SS -> MS	MODIFYCOMPLETE	
23	MS		MS enter the active state
24			Next three steps are performed as many times as used
			multislot class has different channel combinations. Timeslot allocation starts from simplest case and is
			upgraded up to the maximum that MS multislot class
			supports, one step at the time (within highest multislot
			class that the MS supports).
24A	SS -> MS	CONFIGURATION CHANGE	Appropriate number of timeslots is selected.
247	00-2100	COMMAND	Appropriate number of timesions is selected.
24B	MS -> SS	CONFIGURATION CHANGE	
270		ACKNOWLEDGE	
24C	MS		TCH(s) shall be through connected in both directions
			-
25	SS -> MS	DISCONNECT	
26	MS -> SS	RELEASE	
27	SS -> MS	RELEASE COMPLETE	
28	SS -> MS	CHANNEL RELEASE	The main signalling link is released

26.13.3.3 Multislot signalling / Structured procedures / MS originated call / early assignment / HSCSD / Transparent

26.13.3.3.1 Conformance requirement

1) An MS in MM state "idle, updated" and in RR idle mode, when made to initiate a call, if it provides a human interface, shall display the dialled number.

- 2) An MS in MM state "idle, updated" and in RR idle mode, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS, starts to initiate the immediate assignment procedure by sending a CHANNEL REQUEST message with correct establishment cause.
- 3) Subsequently after establishment of a MM connection, after MS sends its multislot class in CLASSMARK CHANGE message, the MS shall send a SETUP message with correct parameters.
- 4) The call control entity of the Mobile Station in the "call initiated" state, in the "mobile originating call proceeding" state or in the "call delivered" state, shall, upon receipt of a CONNECT message:
 - 4.1) attach the user connection to the radio path;
 - 4.2) return a CONNECT ACKNOW LEDGE message.
 - 4.3) establish the TDS link.
- 5) Subsequently when the network initiates call clearing by sending a DISCONNECT message, the MS shall proceed to release the call by sending a RELEASE message.
- 6) On receipt of a CHANNEL RELEASE message, the MS shall disconnect the main signalling link.

Reference

Conformance requirement 1:	3GPP TS 02.07.	
Conformance requirement 2:	3GPP TS 02.07, 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.1.1 and 9.1.8.	
Conformance requirement 3:	3GPP TS 04.08 / 3GPP TS 44.018 subclause 9.1.11, 3GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.23.	
Conformance requirement 4:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.5 and 9.3.6, 3GPP TS 07.01 clause 8.	
Conformance requirement 5:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.7, 9.3.18 and 5.4.4.2.2.	
Conformance requirement 6:	3GPP TS 04.08 / 3GPP TS 44.018 subclause 9.1.7.	

26.13.3.3.2 Test purpose

- 1) To verify that the MS in MM state "idle, updated" with a TMSI assigned, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS as declared in a PICS/PIXIT statement, displays the dialled number in the way described in a PICS/PIXIT statement.
- 2) To verify that the MS in MM state "idle, updated" and in RR idle mode, with a TMSI assigned, when made to initiate a call for a selected teleservice/bearer service for HSCSD that is supported by the MS as declared in a PICS/PIXIT statement, starts to initiate an immediate assignment procedure by sending the CHANNEL REQUEST message with correct establishment cause.
- 3) To verify that subsequently after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after completion of establishment of the main signalling link, after having sent a CM SERVICE REQUEST message, after MS sends it's multislot class in CLASSMARK CHANGE message, after having successfully performed the authentication and cipher mode setting procedures, the MS sends a SETUP message with correct parameters.
- 4) Multislot configuration with maximum number of channels supported by MS in a HSCSD configuration, is allocated. To verify that subsequently, after receipt of a CALL PROCEEDING message and of an ASSIGNMENT COMMAND message allocating an appropriate TCHs, after having completed the early assignment procedure for all traffic channel in multislot configuration by replying with the ASSIGNMENT COMPLETE message, after receipt of an ALERTING message and a CONNECT message, the MS returns a CONNECT A CKNOWLEDGE message.
- 5) To verify that subsequently the MS has attached the user connection to the radio path. This is verified by checking that the MS synchronises correctly to the TCHs and sends and receives correct data frames in each data block.

- 6) To verify that subsequently upon the network initiating call clearing by sending a DISCONNECT message, the MS proceed to release the call with RELEASE.
- 7) To verify that subsequently, on receipt of a RELEASE COMPLETE message followed by a CHANNEL RELEASE message, the MS disconnects the main signalling link.

26.13.3.3.3 Method of test

Initial conditions

Mobile Station:

- The MS is in MM-state "idle, updated" with valid TMSI and CKSN.

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)

PIXIT statements:

- Way to display the called number

Foreseen final state of the MS

MS is in MM-state "idle, updated" with valid TMSI and CKSN.

Test procedure

The MS is made to initiate a HSCSD connection. Maximum number of channels supported by the MS in a HSCSD configuration, is allocated. The call is established with early assignment. Having reached the active state, the call is cleared by the SS.

Maximum duration of test

7 minutes.

Expected sequence

Step	Direction	Message	Comments
1	MS		The "called number" is entered
2	MS		If supported, the MS must display the called number in the way defined in PICS/PIXIT.
3	MS -> SS	CHANNEL REQUEST	Establishment cause is "Originating call and TCH/F is
0	100 -> 00		needed, or originating call and the network does not set
			NECI bit to 1"
4	SS -> MS	IMMEDIATE ASSIGNMENT	
5		CM SER VICE REQUEST	Message is contained in SABM
6		CLASSMARK CHANGE	Multislot class
7		AUTHENTICATION REQUEST	
8		AUTHENTICATION RESPONSE	SRES specifies correct value.
9		CIPHERING MODE COMMAND	SS starts deciphering after sending the message.
10	MS -> SS	CIPHERING MODE COMPLETE	Shall be sent enciphered. All following messages shall be
10			sent enciphered.
11	SS		SS starts ciphering.
12		SETUP	Transparent connection
13	SS -> MS	CALL PROCEEDING	
14	SS -> MS	ASSIGNMENT COMMAND	In multislot allocation maximum number of timeslots, that
			MS supports, is allocated.
15	MS -> SS	ASSIGNMENT COMPLETE	
16	SS -> MS	ALERTING	
17	MS		
18	SS -> MS	CONNECT	
19	MS -> SS	CONNECT ACKNOWLEDGE	
20	MS		The appropriate bearer channel is through connected in
			both directions
21	SS -> MS	DISCONNECT	
22	MS -> SS	RELEASE	
23	SS -> MS	RELEASE COMPLETE	
24	SS -> MS	CHANNEL RELEASE	The main signalling link is released

26.13.3.4 Multislot signalling / Structured procedures / MS Terminated call / early assignment / HSCSD / non-transparent

26.13.3.4.1 Conformance requirement

- 1) The MS is in MM state "idle, updated" and in RR idle mode when being paged by the network.
- 2) The MS sends CHANNEL REQUEST message to the network and after that it receives IMMEDIATE ASSIGNMENT message from the network
- 3) The MS sends PAGING RESPONSE message to network and after that MS sends its multislot class in CLASSMARK CHANGE message to the network.
- 4) The MS performs successfully authentication and cipher mode setting procedures.
- 5) The MS shall acknowledge the SETUP message with a CALL CONFIRMED message, if compatibility checking was successful, the MS is not busy, and the user does not refuse the call.
- 6) Upon receipt of the ASSIGNMENT COMMAND message the MS continues a mobile terminating call establishment with early establishment of the traffic channel(s)
 - 6.1) by replying to the ASSIGNMENT COMMAND with an ASSIGNMENT COMPLETE message; and
 - 6.2) if the MS supports immediate connect, by continuing the call establishment by through-connecting the traffic channel(s) in both directions, or if the MS does not support immediate connect, by sending an ALERTING message.
- 7) An MS indicates acceptance of a MT call by sending CONNECT.
- 8) After receiving the CONNECT ACKNOW LEDGE message from the network the MS shall establish the RLP link.

- 9) User requests User initiated service level upgrade. MS sends MODIFY message and after receipt of MODIFY COMPLETE message the MS enters the active state.
- 10) MS receives CONFIGURATION CHANGE COMMAND message and reply's to SS by sending CONFIGURATION CHANGE ACKNOW LEDGE message.
- 11) The MS initiates call clearing of an active call by sending a DISCONNECT message.
- 12) The MS in this phase of call release, upon receipt of a RELEASE message, shall return a RELEASE COMPLETE message.
- 13) Subsequently the MS, upon receipt of a CHANNEL RELEASE message, shall disconnect the main signalling link.
- NOTE: Requirements 9 and 10 are only applicable to Multislot Class 2 and above.

Reference

Conformance requirement 1: 3GPP TS 02.07.

Conformance requirement 2: 30	GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.1.1 and 9.1.8.
Conformance requirement 3: 3C	GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.2.2, 9.1.25 and 9.1.11.
*	GPP TS 04.08 / 3GPP TS 24.008 subclauses 4.3.2, 9.2.2 and 9.2.3, GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.7, 9.1.9 and 9.1.10.
Conformance requirement 5: 3C	GPP TS 04.08 / 3GPP TS 24.008, subclauses 9.3.23 and 9.3.2.
1	GPP TS 04.08 / 3GPP TS 44.018 subclauses 9.1.2 and 9.1.3 GPP TS 04.08 / 3GPP TS 24.008 subclauses 5.2.1.5 and 9.3.1.
Conformance requirement 7: 30	GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.5.
*	GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.6, GPP TS 07.01 clause 8.
Conformance requirement 9: 30	GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.13 and 9.3.14.
Conformance requirement 10: 30	GPP TS 04.08 / 3GPP TS 44.018 subclauses 9.1.12b and 9.1.12c.
Conformance requirement 11: 30	GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.7.
Conformance requirement 12: 30	GPP TS 04.08 / 3GPP TS 24.008 subclauses 9.3.18, 9.3.19 and 5.4.4.2.2.
Conformance requirement 13: 30	GPP TS 04.08 / 3GPP TS 44.018 subclause 9.1.7.

26.13.3.4.2 Test purpose

- To verify that the MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, after being paged by the network on the correct paging subchannel, after initiating the immediate assignment procedure by sending the CHANNEL REQUEST message, after receipt of an IMMEDIATEASSIGNMENT message allocating an SDCCH, after having sent a PAGING RESPONSE message on the allocated SDCCH, after having sent multislot class in CLASSMARK CHANGE message, after having performed successful authentication and cipher mode setting procedures, after receipt of a SETUP message not containing a signal information element, returns a CALL CONFIRMED message.
- 2) Multislot configuration with one TCH/F is allocated. To verify that subsequently, the SS sending an ASSIGNMENT COMMAND message, the MS successfully continues a mobile terminating call establishment with early assignment of traffic channel(s):
 - 2.1) by replying to the ASSIGNMENT COMMAND with an ASSIGNMENT COMPLETE mess age; and
 - 2.2) by continuing the call establishment by either sending a CONNECT message or sending an ALERTING message depending on PICS/PIXIT statement.
- 3) To verify that the MS generates an alerting indication if an ALERTING message had to be sent.

- 4) To verify that if an ALERTING had been sent, subsequently, when the user accepts the call (possibly internal action as declared in PICS/PIXIT statement), the MS returns a CONNECT message.
- 5) To verify that the MS after receipt of a CONNECT ACKNOW LEDGE message subsequently attaches the user connection to the radio path. This is verified by checking that the MS establishes the RLP link correctly and sends and receives correct RLP frames in each data block.
- 6) To verify that subsequently upon user requests User initiated service level upgrade, the MS send MODIFY message and after receipt of MODIFY COMPLETE message the MS enters the active state.
- 7) To verify that subsequently, after receipt of a CONFIGURATION CHANGE COMMAND, after MS sends CONFIGURATION CHANGE ACKNOW LEDGE, MS through connects all bi-directional channel(s) in multislot configuration in both directions and all uni-directional channels in downlink direction. Multislot configuration is upgraded from simplest case up to the maximum number of channels supported by MS in the HSCSD configuration. This is verified by checking that the MS sends and receives correct RLP frames in each data block.
- 8) To verify that subsequently, the MS can initiate call clearing by sending DISCONNECT message.
- 9) To verify that the MS in this phase of call release, upon receipt of a RELEASE message, returns a RELEASE COMPLETE message.
- 10) To verify that subsequently the MS, upon receipt of a CHANNEL RELEASE message, disconnects the main signalling link.
- NOTE: Items 6 and 7 are only applicable to Multislot Class 2 and above.

26.13.3.4.3 Method of test

Initial conditions

Mobile Station:

- The MS is in MM-state "idle, updated" with valid TMSI and CKSN.

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)
- Immediate connect supported for all circuit switched basic services. (TSPC_AddInfo_ImmConn)

PIXIT statements:

- Way to indicate alerting.
- Way to make the MS accept an incoming call after alerting.

Foreseen final state of the MS

MS is in MM-state "idle, updated" with valid TMSI and CKSN.

Test procedure

The MS is paged and the resulting HSCSD connection is established. Multislot configuration with one TCH/F is allocated. User service level upgrade is performed. MS enters the active state.

For Multislot Class 2 and above, a CONFIGURATION CHANGE COMMAND message is sent to MS and it reply's with CONFIGURATION CHANGE ACKNOW LEDGE message. This is done from simplest case up to the maximum number of channels supported by the MS in the HSCSD configuration (this is performed within highest multislot class that MS supports).

Maximum duration of test

7 minutes.

Expected sequence

An MS supporting Multilsot Class 1 need only perform steps 1..20 and 25..29.

Step	Direction	Message	Comments
1	SS -> MS	PAGING REQUEST TYPE 1	Sent on the correct paging subchannel.
2	MS -> SS	CHANNEL REQUEST	Establishment cause indicates "answer to paging".
3	SS -> MS	IMMEDIATE ASSIGNMENT	
4	MS -> SS	PAGING RESPONSE	Message is contained in SABM.
5	MS -> SS	CLASSMARK CHANGE	Multislot class
6	SS -> MS	AUTHENTIC ATION REQUEST	
7	MS -> SS	AUTHENTIC ATION RESPONSE	SRES specifies correct value.
8	SS -> MS	CIPHERING MODE COMMAND	SS starts deciphering after sending the message.
9	MS -> SS	CIPHERING MODE COMPLETE	Shall be sent enciphered. All following messages shall be
			sent enciphered.
10	SS		SS starts ciphering.
11	SS -> MS	SETUP	Message does not contain the signal IE. Setup indicates
			non-transparent connection.
12	MS -> SS	CALL CONFIRMED	
			If the MS supports immediate connect then branch A
			applies. If the MS does not support immediate connect
			then branch B applies
A13	SS -> MS	ASSIGNMENT COMMAND	In multislot allocation only one timeslot is allocated.
A14	MS -> SS	ASSIGNMENT COMPLETE	
A15	MS -> SS	CONNECT	
B13	SS -> MS	ASSIGNMENT COMMAND	In multislot allocation only one times lot is allocated.
B14	MS -> SS	ASSIGNMENT COMPLETE	
B15	MS -> SS	ALERTING	
B16	MS		An alerting indication as defined in a PICS/PIXIT statement
			is given by the MS
B17	MS		The MS is made to accept the call in the way described in
			a PICS/PIXIT statement
B18	MS -> SS	CONNECT	
19	SS -> MS	CONNECT ACKNOWLEDGE	
20	MS		TCH shall be through connected in both directions.
			The RLP link establishment is initiated by the MS.
21	MS -> SS	MODIFY	User initiated service level upgrade is initiated
22	SS -> MS	MODIFYCOMPLETE	MO and any the particulation
23	MS		MS enters the active state
24			Next three steps are performed as many times as used
			multislot class has different channel combinations.
			Timeslot allocation starts from simplest case and is
			upgraded up to the maximum that MS multislot class
			supports, one step at the time (within the highest multislot
244	SS -> MS		class that MS supports).
24A	32 -> IVIS	CONFIGURATION CHANGE	Appropriate number of timeslots is selected.
24B	MS -> SS	CONFIGURATION CHANGE	
24D	1010 -> 00	ACKNOWLEDGE	
240	MC		MS connects all bi-directional channels in both directions
24C	MS		and all uni-directional channels in downlink directions
25	MS		The MS is made to release the call.
25	MS -> SS	DISCONNECT	
26 27	NS -> 55 SS -> MS	RELEASE	
28	MS -> SS	RELEASE COMPLETE	The main aignalling link is released
29	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

26.13.3.5 Multislot signalling / Structured procedures / MS Terminated call / early assignment / HSCSD / Transparent

26.13.3.5.1 Conformance requirement

- 1) The MS is in MM state "idle, updated" and in RR idle mode when being paged by the network.
- 2) The MS sends CHANNEL REQUEST message to the network and after that it receives IMMEDIATE ASSIGNMENT message from the network.
- 3) The MS sends PAGING RESPONSE message to network and after that MS sends its multislot class in CLASSMARK CHANGE message to the network.
- 4) The MS performs successfully authentication and cipher mode setting procedures.
- 5) The MS shall acknowledge the SETUP message with a CALL CONFIRMED message, if compatibility checking was successful, the MS is not busy, and the user does not refuse the call.
- 6) Upon receipt of the ASSIGNMENT COMMAND message the MS continues a mobile terminating call establishment with early establishment of the traffic channel(s)
 - 6.1) by replying to the ASSIGNMENT COMMAND with an ASSIGNMENT COMPLETE message; and
 - 6.2) if the MS supports immediate connect, by continuing the call establishment by through-connecting the traffic channel(s) in both directions, or if the MS does not support immediate connect, by sending an ALERTING message.
- 7) An MS indicates acceptance of a MT call by sending CONNECT.
- 8) The mobile station shall attach the user connection and establish the TDS link when receiving the CONNECT ACKNOW LEDGE message from the network.
- 9) MS correctly uses different ciphering bit streams on the different timeslots in a multislot configuration.
- 10) The MS initiates call clearing of an active call by sending a DISCONNECT message.
- 11) The MS in this phase of call release, upon receipt of a RELEASE message, shall return a RELEASE COMPLETE message.
- 12) Subsequently the MS, upon receipt of a CHANNEL RELEASE message, shall disconnect the main signalling link.

Reference

Conformance requirement 1:	3GPP TS 02.07.
Conformance requirement 2:	3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.3.1.1 and 9.1.8.
Conformance requirement 3:	3GPP TS 04.08/ 3GPP TS 44.018 subclauses 3.3.2.2, 9.1.25 and 9.1.11.
Conformance requirement 4:	3GPP TS 04.08 / 3GPP TS 24.008 subclauses 4.3.2, 9.2.2 and 9.2.3, 3GPP TS 04.08 / 3GPP TS 44.018 subclauses 3.4.7, 9.1.9 and 9.1.10.
Conformance requirement 5:	3GPP TS 04.08 / 3GPP TS 24.008, subclauses 9.3.23 and 9.3.2.
Conformance requirement 6:	3GPP TS 04.08/ 3GPP TS 44.018 subclauses 9.1.2 and 9.1.3.
Conformance requirement 7:	3GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.5.
Conformance requirement 8:	3GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.6, 3GPP TS 07.01 clause 8.
Conformance requirement 9:	3GPP TS 03.34 subclause 5.2.5, 3GPP TS 04.08/ 3GPP TS 44.018 subclauses 3.4.7 and 9.1.9.
Conformance requirement 10:	3GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.7.
Conformance requirement 11:	3GPP TS 04.08 / 3GPP TS 24.008 subclause 9.3.19.
Conformance requirement 12:	3GPP TS 04.08/ 3GPP TS 44.018 subclause 9.1.7.

26.13.3.5.2 Test purpose

- 1) To verify that the MS in MM state "idle, updated" and in RR idle mode with a TMSI assigned, after being paged by the network on the correct paging subchannel, after initiating the immediate assignment procedure by sending the CHANNEL REQUEST message, after receipt of an IMMEDIATE ASSIGNMENT message allocating an SDCCH, after having sent a PAGING RESPONSE message on the allocated SDCCH, after having sent multislot class in CLASMARK CHANGE message which has been explicitly accepted by the network, as indicated in the last reception in the accessed cell of the SYSTEM INFORMATION TYPE 3 message, after having performed successful authentication and cipher mode setting procedures, after receipt of a SETUP message not containing a signal information element, returns a CALL CONFIRMED message.
- 2) Multislot configuration with maximum number of channels supported by MS in a HSCSD configuration, is allocated. To verify that subsequently, the SS sending an ASSIGNMENT COMMAND message, the MS successfully continues a mobile terminating call establishment with early assignment of traffic channel(s):
 - 2.1) by replying to the ASSIGNMENT COMMAND with an ASSIGNMENT COMPLETE message; and
 - 2.2) by continuing the call establishment by either sending a CONNECT messages or sending an ALERTING message depending on PICS/PIXIT statement.
- 3) To verify that the MS generates an alerting indication if an ALERTING message had to be sent.
- 4) To verify that if an ALERTING had been sent, subsequently, when the user accepts the call (possibly internal action as declared in PICS/PIXIT statement), the MS returns a CONNECT message.
- 5) To verify that the MS after receipt of a CONNECT A CKNOW LEDGE message subsequently attaches the user connection to the radio path. This is verified by checking that the MS synchronises correctly to the TCHs and sends and receives correct data frames in each data block.
- 6) To verify that the MS correctly uses different ciphering bit streams on the different timeslots in a multislot configuration.
- 7) To verify that subsequently, the MS can initiate call clearing by sending a DISCONNECT message.
- 8) To verify that the MS in this phase of call release, upon receipt of a RELEASE message, returns a RELEASE COMPLETE message.

9) To verify that subsequently the MS, upon receipt of a CHANNEL RELEASE message, disconnects the main signalling link.

These test purposes are tested for all rates supported by the MS (full rate).

26.13.3.5.3 Method of test

Initial conditions

Mobile Station:

- The MS is in MM-state "idle, updated" with valid TMSI and CKSN.

System Simulator:

- 1 cell, default parameters except:
 - Early classmark sending enabled in SI3 rest octets.

Specific PICS statements:

- Multislot class (TSPC_Type_Multislot_ClassX)
- Immediate connect supported for all circuit switched basic services. (TSPC_AddInfo_ImmConn)

PIXIT statements:

- Way to indicate alerting.
- Way to make the MS accept an incoming call after alerting.

Foreseen final state of the MS

MS is in MM-state "idle, updated" with valid TMSI and CKSN.

Test procedure

The MS is paged and the resulting HSCSD connection is established. Maximum number of channels supported by the MS in a HSCSD configuration, is allocated. Having reached the active state, the MS is made to clear the call.

Maximum duration of test

7 minutes

Expected sequence

Step	Direction	Message	Comments
1		PAGING REQUEST TYPE 1	Sent on the correct paging subchannel.
2	MS -> SS	CHANNEL REQUEST	Establishment cause indicates "answer to paging".
3	SS -> MS	IMMEDIATE ASSIGNMENT	
4	MS -> SS	PAGING RESPONSE	Message is contained in SABM.
5	MS -> SS	CLASSMARK CHANGE	Early classmark sending Multislot class indicated
6	SS -> MS	AUTHENTIC ATION REQUEST	, ,
7	MS -> SS	AUTHENTIC ATION RESPONSE	SRES specifies correct value.
8	SS -> MS	CIPHERING MODE COMMAND	SS starts deciphering after sending the message.
9	MS -> SS	CIPHERING MODE COMPLETE	Shall be sent enciphered. All following messages shall be
-			sent enciphered.
10	SS		SS starts ciphering.
11		SETUP	Message does not contain the signal IE.
12	MS -> SS	CALL CONFIRMED	nooodge dood not contain the orginarite.
12	10 > 00		If the MS supports immediate connect then branch A
			applies. If the MS does not support immediate connect
			then branch B applies
			literi brandi b applies
A13	SS -> MS	ASSIGNMENT COMMAND	In multislot allocation maximum number of timeslots that
AIS	00-2100		MS supports, is allocated.
A14	MS -> SS	ASSIGNMENT COMPLETE	No supports, is anotated.
A14 A15		CONNECT	
B13	MS -> SS SS -> MS	ASSIGNMENT COMMAND	In multislot allocation maximum number of timeslots that
DIS	33-> 103	ASSIGNMENT COMMAND	
D44			MS supports, is allocated. sent on the TCH/Sm channel
B14		ASSIGNMENT COMPLETE	sent on the TCH/Sm channel
B15	MS -> SS	ALERTING	
B16	MS		An alerting indication as defined in a PICS/PIXIT statement
D 4 D			is given by the MS
B17	MS		The MS is made to accept the call in the way described in
			a PICS/PIXIT statement
B18	MS -> SS	CONNECT	
19	SS -> MS	CONNECT ACKNOWLEDGE	
20	MS		The appropriate bearer channel is through connected in
			both directions and the MS correctly uses different ciphering
			bit streams on the different timeslots.
21	MS		The MS is made to release the call.
22	MS -> SS	DISCONNECT	
23		RELEASE	
24	MS -> SS	RELEASE COMPLETE	
25	SS -> MS	CHANNEL RELEASE	The main signalling link is released.

26.13.3.6 Default test conditions during layer 3 tests

During tests in subclause 26.13 the following default test conditions shall apply if not otherwise stated within the test description. In the table below, decimal values are normally used. Sometimes a hexadecimal value, indicated with a "H", or a binary value, indicated with a "B" is given.

General signaling conditions for all carries yes yes General RF-conditions for all carries Non-hopping Static Frequency hopping mode Non-hopping Static Downlink input Level 63 dBµVemf() 63 dBµVemf() Upink output power Minimum according to MS power class Serving cell, BCCH/CCCH carrier Channel ARFCN 263 Alternative channels 274 or 276 321 or 323 Serving cell, BCCH/CCCH carriers Channel ARFCN 261 Channel ARFCN 261 282, 283, 285, 288, 291, 292 309, 330, 332, 333, 334, 337, 340 Alternative channels 262, 283, 285, 288, 291, 292 309, 330, 332, 333, 334, 337, 340 Memative channels 261, 282, 284, 287, 290, 283 308, 329, 331, 334, 337, 340 Memative channels 262, 283, 285, 288, 291, 292 309, 330, 332, 333, 334, 337, 340 Mobile country code, MCC 001 001H 0001H Mobile country code, MCC 001 (decimal) 01 (decimal) 01 (decimal) Cell Channel Descriptor Range 128 Range 128 Range 128 So colur code, NCC		GSM 450	GSM 480
General RF-conditions for all carriers Non-hopping Frequency/hopping mode Non-hopping Propagation profile 63 dBµVemf() Downlink Input Level 63 dBµVemf() Upink output power Minimum according to MS power Identities 274 or 276 Serving cell, BCCH/CCCH carrier	General signalling conditions for all carrie	rs	
Frequency hopping mode Non-hopping Non-hopping Propagation profile Static Static Downlink Input Level 63 dBµVemf() Minimum according to MS power Uplink output power Minimum according to MS power class Serving cell, BCCH/CCCH carrier 263 310 Channel ARFCN 263 310 Alternative channels 274 or 276 315 Serving cell, Traffic channel, SDCCH 267 315 Channel ARFCN 267 316 Alternative channels 275 or 279 308, 329, 331, 334, 337, 340 Omer Control Indicator 0 0 Neighbouring cells BCCH/CCCH carriers 308, 329, 331, 334, 337, 340 Channel ARFCN 261, 282, 284, 287, 290, 293 308, 329, 331, 334, 337, 340 Alternative channels 262, 283, 285, 288, 291, 292 309, 330, 332, 335, 338, 339 Input Level 53 dBµVemf() 53 dBµVemf() Network dependent parameters Cell Identify 0001H Cell Identify 0001H 001 (decimal) 001 (decimal) Mobile country code, MCC 01 (decimal) 01 (decimal) Cell Identify 0001H 0001H 0001H Mobile network code, MNC 01 (decimal) 01 (decimal)	Ciphering	yes	yes
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PAR AM IND) are present in SI messages 7 and 8 same P1 and C2 parameters C2 parameters not present same			
P1 and C2 parameters C2 parameters not present same			
			same
POI and POWER OFFSET N/A N/A			
	POI and POWER OFFSET	N/A	N/A

	GSM 900	DCS 1 800
General signalling conditions for all carrie		
Ciphering	yes	yes
General RF-conditions for all carriers	1	12
Frequency hopping mode	Non-hopping	Non-hopping
Propagation profile	Static	Static
Downlink Input Level	63 dBμVemf()	63 dBμVemf()
Uplink output power	Minimum according to MS power	Minimum according to MS power
	class	class
Serving cell, BCCH/CCCH carrier		
Channel ARFCN	20	590
Alternative channels	40 or 60	690 or 830
Serving cell, Traffic channel, SDCCH		
Channel ARFCN	30	650
Alternative channels	50 or 70	750 or 850
Power Control Indicator	0	0
Neighbouring cells BCCH/CCCH carriers	-	-
Channel ARFCN	10, 80, 90, 100, 110, 120	520, 600, 700, 780, 810, 870
Alternative channels	15, 85, 95, 105, 115, 122	530, 610, 710, 790, 820, 880
Input level	53 dB _μ Vemf()	53 dB _μ Vemf()
Network dependent parameters		
Cell identity	0001H	0001H
Mobile country code, MCC	001 (decimal)	001 (decimal)
Mobile network code, MNC	01 (decimal)	01 (decimal)
Location area code, LAC	0001H	0001H
Frequency List	Bit Map 0	Range 512
BCCH allocation sequence	0	0
number(BA_IND)		
Cell Channel Descriptor	Bit Map 0	Range 512
PLMN colour code, NCC	1	1
BS colour code, BCC	5	5
SMS Cell Broadcast	not active	not active
DTX	MS must not use	MS must not use
IMSI Attach-detach	MS shall not apply	MS shall not apply
CCCH_CONF	1 basic physical channel for CCCH	1 basic physical channel for CCCH
	combined with SDCCH	combined with SDCCH
BS_AG_BLKS_RES	0 blocks reserved	0 blocks reserved
BS_PA_MFRMS	5 paging subgroups	5 paging subgroups
CELL_BAR_ACCESS	(not barred)	(not barred)
Call-re-establishment (RE)	(allowed)	(allowed)
Emergency Call allowed	allowed	same
Access Control Class (AC) (09, 1115)	allowed	same
Network dependent timers		
Radio_Link_Time-out	8	8
T3212 Periodic updating in decihours	Infinite	Infinite
Access control parameters		
Maxretrans	1	1
Tx-integer, nr. of slots	5	5
CELL_RESELECT_HYSTERESIS	12 dB	12 dB
MS_TXPWR_MAX_CCH	minimum level	minimum level
RXLEV_ACCESS_MIN	minimum	minimum
NECI	New establishment causes are not	same
	supported	
ACS (ADDITIONAL RESELECTION	No additional cell parameters	same
PARAMIND)	are present in SI messages 7 and 8	same
P1 and C2 parameters	C2 parameters not present	le amo
POI and POWER OFFSET		same
	N/A	POWER OFFSET Parameter not
		present.

	GSM 700	GSM 850
General signalling conditions for all carrie	rs	
Ciphering	yes	yes
General RF-conditions for all carriers)	J
Frequency hopping mode	Non-hopping	Non-hopping
Propagation profile	Static	Static
Downlink Input Level	63 dBμVemf()	63 dBμVemf()
Uplink output power	Minimum according to MS power	Minimum according to MS power
	class	class
Serving cell, BCCH/CCCH carrier	01000	01400
Channel ARFCN	457	147
Alternative channels	477 or 497	167 or 187
Serving cell, Traffic channel, SDCCH		
Channel ARFCN	467	157
Alternative channels	470 or 475	177 or 207
Power Control Indicator	0	0
Neighbouring cells BCCH/CCCH carriers	0	0
Channel ARFCN	447 480 400 504 507 540	127 207 217 227 227 247
	447, 480, 499, 504, 507, 510	137, 207, 217, 227, 237, 247 142, 212, 222, 232, 242, 249
Alternative channels	452, 465, 485, 495, 505, 509	
Input level	53 dBμVemf()	53 dBμVemf()
Network dependent parameters		
Cell identity	0001H	0001H
Mobile country code, MCC	001 (decimal)	001 (decimal)
Mobile network code, MNC	01 (decimal)	01 (decimal)
Location area code, LAC	0001H	0001H
Frequency List	128 Range	128 Range
BCCH allocation sequence	0	0
number(BA_IND)	100 5	100 5
Cell Channel Descriptor	128 Range	128 Range
PLMN colour code, NCC		
BS colour code, BCC		5
SMS Cell Broadcast	not active	not active
DTX	MS must not use	MS must not use
IMSI Attach-detach	MS shall not apply	MS shall not apply
CCCH_CONF	1 basic physical channel for CCCH combined with SDCCH	1 basic physical channel for CCCH combined with SDCCH
DS AC DIKS DES	0 blocks reserved	0 blocks reserved
BS_AG_BLKS_RES		
BS_PA_MFRMS CELL_BAR_ACCESS	5 paging subgroups	5 paging subgroups
Call-re-establishment (RE)	(not barred) (allowed)	(not barred) (allowed)
Emergency Call allowed	allowed	allowed
	allowed	allowed
	allowed	allowed
Network dependent timers		
Radio_Link_Time-out	8 Infinite	8 Infinite
T3212 Periodic updating in decihours	Infinite	Infinite
Access control parameters		
Maxretrans	1	1
Tx-integer, nr. of slots	5	5
CELL_RESELECT_HYSTERESIS	12 dB	12 dB
MS_TXPWR_MAX_CCH	minimum level	minimum level
RXLEV_ACCESS_MIN	minimum	Minimum
	Naw, astablia has a stand a sub as a rest	New establishment causes are not
NECI	New establishment causes are not	
NECI	supported	supported
NECI ACS (ADDITIONAL RESELECTION		
	supported	supported
ACS (ADDITIONAL RESELECTION	supported No additional cell parameters	supported No additional cell parameters

These information's are provided by system information 1, 2, 3 and 4 messages.

The system information elements that are broadcast on the SACCH/M during the dedicated mode should be consistent with those sent on the BCCH when the MS was in idle mode prior to the channel request.

In addition, all fill paging messages sent on the paging sub-channels will have by default, their page mode set to NORMAL PAGING.

26.13.3.7 Default contents of messages

ALERTING (mobile station to network direction)

Information element	Value/remark
Facility	Not checked
User-user	Not checked
SS version	Not checked

ALERTING (network to mobile station direction)

Information element	Value/remark
Facility	Omitted
Progress indicator	Omitted
User-user	Omitted

ASSIGNMENT COMMAND

Information element	Value/remark
Description of the first channel	describes non-hopping Bm+ACCHs or Lm+ACCHs as
	appropriate for the test
Power Command	As in subclause 26.1.1
Frequency list	Omitted
Cell channel description	Omitted
Description of the multislot configuration	Appropriate for the teleservice selected for the test
Mode of the channel set X $(1 = < X < = 8)$	Appropriate for on bearer capability chosen for the test
Description of the second channel	Omitted
Mode of the second channel	Omitted
Mobile allocation	Omitted
Starting time	Omitted
Cipher mode setting	Omitted

ASSIGNMENT COMPLETE

Information element	Value/remark
RR cause	normal event

AUTHENTICATION REQUEST

Information element	Value/remark
Ciphering key sequence number	Arbitrary
Spare half octet	(spare bits)
Authentication parameter RAND	Arbitrary

AUTHENTICATION RESPONSE

Information element	Value/remark
Authentication parameter SRES	Correct for given SRES

CALL CONFIRMED

Information element	Value/remark
Repeat indicator	Omitted
Bearer capability 1	3GPP TS 04.08 / 3GPP TS 24.008 subdause 10.5.4.5
Bearer capability 2	Omitted
Cause	Omitted

CALL PROCEEDING

Information element	Value/remark
Repeat Indicator	Omitted
Bearer Capability 1	3GPP TS 04.08 / 3GPP TS 24.008 subdause 10.5.4.5
Bearer Capability 2	Omitted
Facility	Omitted
Progress indicator	Omitted

CHANNEL RELEASE

Information element	Value/remark
RR cause	Normal event

CHANNEL REQUEST

Information element	Value/remark
Establishment cause	Answer to paging (100)
Random reference	Arbitrary value of 5 bits length

CIPHERING MODE COMMAND

Information element	Value/remark
Cipher mode setting	
algorithm identifier	indicates a supported algorithm
SC	Start ciphering
Cipher response	
CR	IMEI must not be included

CIPHERING MODE COMPLETE

Information element	Value/remark
Mobile equipment identity	Omitted

CLASSMARK CHANGE

Information element	Value/remark
MS classmark	Multislot classmark value appropriate for the test
Additional mobile station classmark information	Omitted

CM SERVICE ACCEPT

Information element	Value/remark
none but message head	

CM SERVICE REQUEST

Information element	Value/remark
CM service type	Mobile originating call establishment or packet mode
	connection establishment
Ciphering key sequence number	CKSN of the MS
Mobile station classmark 2	as given by PICS.
Mobile identity	TMSI of MS

CONFIGURATION CHANGE COMMAND

Information element	Value/remark
Description of the multislot configuration	Appropriate for the teleservice selected for the test
Mode of channel set X (1= <x<=8)< td=""><td>Appropriate channel mode is selected</td></x<=8)<>	Appropriate channel mode is selected

CONFIGURATION CHANGE REJECT

Information element	Value/remark
RR Cause	Cause = "Channel mode unacceptable"

CONNECT (network to mobile station direction)

Information element	Value/remark
Facility	Omitted
Progress indicator	Omitted
Connected number	Omitted
Connected subaddress	Omitted
User-user	Omitted

CONNECT (mobile station to network direction)

Information element	Value/remark	
Facility	Not checked	
Connected subaddress	Not checked	
User-user	Not checked	
SS version	Not checked	

CONNECT ACKNOWLEDGE

Information element	Value/remark
none but message head	

DISCONNECT (network to mobile station direction)

Information element	Value/remark
Cause	
Coding standard	GSM
Location	User
Cause value	Normal clearing
Facility	Omitted
Progress indicator	Omitted
User-user	Omitted

DISCONNECT (mobile station to network direction)

Information element	Value/remark
Cause	
Coding standard	GSM
Location	User
Cause value	Normal clearing
Facility	Not checked
User-user	Not checked
SS version	Not checked

IMMEDIATE ASSIGNMENT

Information element	Value/remark
Pagemode	Normal paging
Channel description	describes a valid SDCCH+SACCH in non-hopping mode
Request reference	
Random access information	As received from MS
N51, N32, N26	Corresponding to frame number of the CHANNEL
	REQUEST
Timing advance	Arbitrary
Mobile allocation	Empty (L=0)
Starting time	Omitted

MODIFY

Information element	Value/remark
Bearer capability	
Connection element (octet 6c)	Transparent for cases: 26.13.3.3, 26.13.3.5
	Non-transparent for cases: 26.13.3.1, 26.13.3.2, 26.13.3.4
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

MODIFY COMPLETE

Information element	Value/remark
Bearer capability	
Connection element (octet 6c)	Transparent for cases: 26.13.3.3, 26.13.3.5
	Non-transparent for cases: 26.13.3.1, 26.13.3.2, 26.13.3.4
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test
Reverse call setup direction	Presence and value not checked

MODIFY REJECT

Information element	Value/remark
Bearer capability	
Connection element (octet 6c)	Transparent for cases: 26.13.3.3, 26.13.3.5 Non-transparent for cases: 26.13.3.1, 26.13.3.2, 26.13.3.4
Cause	Cause = Channel Unacceptable
Low layer comp.	Appropriate for the basic service selected for the test
High layer comp.	Appropriate for the basic service selected for the test

PAGING REQUEST TYPE 1

Information element	Value/remark	
L2 pseudo length	L2 pseudo length of the message	
Page Mode	Nomal Paging	
Channels needed for Mobiles 1 and 2 channel (first) channel (second)	any channel any channel	
Mobile identity 1	TMSI of MS under test	
Mobile identity 2	Omitted	
P1 rest octets	(spare octets)	

PAGING RESPONSE

Information element	Value/remark
Ciphering key sequence number	Value assigned to MS in the initial conditions
Spare half octet	(spare bits)
Mobile station classmark 2	as given by PICS
Mobile identity	specifies TMSI of MS

RELEASE (network to mobile station direction)

Information element	Value/remark	
Cause	Omitted	
Second cause	Omitted	
Facility	Omitted	
User-user	Omitted	

RELEASE (mobile station to network direction)

Information element	Value/remark
Cause	Not checked
Second cause	Not checked
Facility	Not checked
User-user	Not checked
SS version	Not checked

RELEASE COMPLETE (network to mobile station direction)

Information element	Value/remark
Cause	Omitted
Facility	Omitted
User-user	Omitted

RELEASE COMPLETE (mobile station to network direction)

Information element	Value/remark	
Cause	Not checked	
Facility	Not checked	
User-user	Not checked	
SS version	Not checked	

SETUP (MS to SS)

Information element	Value/remark
BC Repeat indicator	Omitted
Bearer capability 1	Appropriate for the teleservice selected for the test
Bearer capability 2	Omitted
Facility	Not checked
Calling party subaddress	Not checked
Called party BCD number	As entered
Called party subaddress	Omitted
LLC repeat indicator	Omitted
Low layer compatibility I	Appropriate for teleservice selected for the test
Low layer compatibility II	Omitted
HLC repeat indicator	Omitted
High layer compatibility i	Appropriate for teleservice selected for the test
High layer compatibility ii	Omitted
User-user	Not checked
SS version	Not checked
CLIR suppression	Not checked
CC Capabilities	Not checked

SETUP (SS to MS)

Information element	Value/remark
BC repeat indicator	Omitted
Bearer capability 1	Appropriate for teleservice selected for the test
Bearer capability 2	Omitted
Facility	Omitted
Progress indicator	Omitted
Signal	Omitted
Calling party BCD number	Omitted
Calling party subaddress	Omitted
Called party BCD number	Omitted
Called party subaddress	Omitted
LLC repeat indicator	Omitted
Low layer compatibility I	Appropriate for the teleservice selected for the test
Low layer compatibility II	Omitted
HLC repeat indicator	Omitted
High layer compatibility i	Appropriate for the teleservice selected for the test
High layer compatibility ii	Omitted
User-user	Omitted