

Source: TSG-RAN WG2

Title: CRs to 25.331 (1)

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2498	-	Rel-5	Minor HSDPA related corrections	F	5.11.0	5.12.0	R2-050252	HSDPA-L23
25.331	2499	-	Rel-6	Minor HSDPA related corrections	A	6.4.0	6.5.0	R2-050253	HSDPA-L23
25.331	2502	-	Rel-5	Number of timeslots that can be used for HS-PDSCH resource for 3.84 Mcps TDD	F	5.11.0	5.12.0	R2-050259	HSDPA-L23
25.331	2503	-	Rel-6	Number of timeslots that can be used for HS-PDSCH resource for 3.84 Mcps TDD	A	6.4.0	6.5.0	R2-050260	HSDPA-L23
25.331	2507	-	Rel-5	ASN.1 clarification on Cell and Channel Identity info for 1.28 Mcps TDD	F	5.11.0	5.12.0	R2-050590	LCRTDD-L23
25.331	2508	-	Rel-6	ASN.1 clarification on Cell and Channel Identity info for 1.28 Mcps TDD	A	6.4.0	6.5.0	R2-050591	LCRTDD-L23
25.331	2518	-	Rel-5	Clarification of GERAN (P)SI message coding in NACC	F	5.11.0	5.12.0	R2-050609	TEI5
25.331	2519	-	Rel-6	Clarification of GERAN (P)SI message coding in NACC	A	6.4.0	6.5.0	R2-050610	TEI5

CHANGE REQUEST

⌘ **25.331 CR 2498** ⌘ rev **-** ⌘ Current version: **5.b.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Minor HSDPA related corrections		
Source:	⌘ RAN WG2		
Work item code:	⌘ HSDPA-L23	Date:	⌘ December 2004
Category:	⌘ F	Release:	⌘ Rel-5
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ This CR includes a number of minor HSDPA related corrections: <ol style="list-style-type: none"> 1) During RAN2#45, an update was made to the Rel-6 version of 25.331 for EUDCH in section 8.5.21. However, also a minor correction related to HSDPA was then included. This CR contains a "backward shadow" for this modification in 25.331 Rel-5 2) An incorrect style is used for a bullet in section 8.6.5.6 (style B3 used for a "2>") 3) The HS_DSCH_RECEPTION variable should also be checked when only the IE "HARQ info" is included in the IE "Added or Reconfigured DL TrCH information".
Summary of change:	⌘ The minor errors are corrected.
Consequences if not approved:	⌘ The minor errors remain in the specification

Clauses affected:	⌘ 8.5.21; 8.6.5.6						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
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Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.5.21 Actions related to Radio Bearer mapping

When the UE receives the IE "RB mapping info" and/or the IE "Transport format set", [when transport channels or MAC-d flows are added or deleted](#) ~~and/or the IE "Added or reconfigured MAC-d flow"~~, when the UE performs a cell reselection or a state transition, or when the UE releases a RB, the UE shall for each of the configured Radio Bearers:

- 1> upon moving to CELL_FACH state from CELL_DCH state to initiate a cell update procedure and upon subsequent cell reselections until the first successfully completed cell update procedure, perform the actions defined in the remainder of this subclause only for signalling radio bearers;
- 1> for FDD, select the multiplexing option according to the following:
 - 2> if the UE is in CELL_FACH state:
 - 3> if the RB has a multiplexing option with transport channel type "FACH" for the DL and transport channel type "RACH" for the UL:
 - 4> select this multiplexing option.

// partly omitted //

8.6.5.6 Added or Reconfigured DL TrCH information

If the IE "Added or Reconfigured DL TrCH information" is included then for the transport channel identified by the IE "DL Transport Channel Identity" the UE shall:

- 1> if the choice "DL parameters" is set to 'explicit':
 - 2> perform the actions for the IE "Transport Format Set" as specified in subclause 8.6.5.1.
- 1> if the choice "DL parameters" is set to 'same as uplink':
 - 2> if the IE "UL Transport Channel Identity" indicates an existing or a new UL Transport Channel:
 - 3> store as transport format for this transport channel the transport format associated with the transport channel identified by the IE "UL Transport Channel Identity".
 - 2> else:
 - 3> set the variable INVALID_CONFIGURATION to TRUE.
- 1> if the choice "DL parameters" is set to 'HSDSCH':
 - 2> if the IE "HARQ Info" is included: [// note to editor: notice changed style //](#)
 - 3> perform the actions specified in subclause 8.6.5.6b.
 - 2> if the IE "Added or Reconfigured MAC-d Flow" is included:
 - 3> perform the actions as specified in subclause 8.6.5.5a;
 - ~~2~~3> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.
- 1> if the IE "DCH quality target" is included:
 - 2> perform the actions specified in subclause 8.6.5.4.

NOTE: The UE stores the DL transport channel configuration until it is explicitly deleted by a message containing the IE "Deleted DL TrCH information" or the UE leaves RRC connected mode.

CHANGE REQUEST

⌘ **25.331 CR 2499** ⌘ rev **-** ⌘ Current version: **6.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Minor HSDPA related corrections		
Source:	⌘ RAN WG2		
Work item code:	⌘ HSDPA-L23	Date:	⌘ December 2004
Category:	⌘ A	Release:	⌘ Rel-6
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ This CR includes a number of minor HSDPA related corrections: 1) An incorrect style is used for a bullet in section 8.6.5.6 (style B3 used for a "2>") 2) The HS_DSCH_RECEPTION variable should also be checked when only the IE "HARQ info" is included in the IE "Added or Reconfigured DL TrCH information".
Summary of change:	⌘ The minor errors are corrected.
Consequences if not approved:	⌘ The minor errors remain in the specification

Clauses affected:	⌘ 8.6.5.6						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
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<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘						

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downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.6.5.6 Added or Reconfigured DL TrCH information

If the IE "Added or Reconfigured DL TrCH information" is included then for the transport channel identified by the IE "DL Transport Channel Identity" the UE shall:

- 1> if the choice "DL parameters" is set to 'explicit':
 - 2> perform the actions for the IE "Transport Format Set" as specified in subclause 8.6.5.1.
- 1> if the choice "DL parameters" is set to 'same as uplink':
 - 2> if the IE "UL Transport Channel Identity" indicates an existing or a new UL Transport Channel:
 - 3> store as transport format for this transport channel the transport format associated with the transport channel identified by the IE "UL Transport Channel Identity".
 - 2> else:
 - 3> set the variable INVALID_CONFIGURATION to TRUE.
- 1> if the choice "DL parameters" is set to 'HSDSCH':
 - 2> if the IE "HARQ Info" is included: // note to editor: notice changed style //
 - 3> perform the actions specified in subclause 8.6.5.6b.
 - 2> if the IE "Added or Reconfigured MAC-d Flow" is included:
 - 3> perform the actions as specified in subclause 8.6.5.5a
 - ~~2~~3> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.
- 1> if the IE "DCH quality target" is included:
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NOTE: The UE stores the DL transport channel configuration until it is explicitly deleted by a message containing the IE "Deleted DL TrCH information" or the UE leaves RRC connected mode.

CR-Form-v7.1

CHANGE REQUEST

25.331 CR 2502 # rev - # Current version: 5.11.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	#	Number of timeslots that can be used for HS-PDSCH resource for 3.84 Mcps TDD	
Source:	#	RAN WG2	
Work item code:	#	HSDPA-L23	Date: # 10/01/2005
Category:	#	F	Release: # Rel-5
		Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	#	25.331 incorrectly permits only 12 timeslots to be used for HS-PDSCH resource. Other aspecifications (e.g. 25.222) permit 13 timeslots to be used for HS-PDSCH resource (15 slots minus the two slots containg P-CCPCH and PRACH).
Summary of change:	#	Tabular and ASN.1 HS-PDSCH Timeslot Configuration is altered to use maxTS-1 instead of maxTS-2
Consequences if not approved:	#	1. Implementations would be unnecessarily restricted to use of a maximum of 12 timeslots 2. Mismatch between 25.331 and 25.222

Clauses affected:	#	10.3.6.36o, 11.2								
Other specs affected:	#	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 20px; text-align: center;"> </td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 20px; text-align: center;"> </td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 20px; text-align: center;"> </td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N						
Y	N									
Other comments:	#	Impacts TDD 3.84 Mcps only								

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

----- First Change -----

10.3.6.36o HS-PDSCH Timeslot Configuration

NOTE: Only for TDD 3.84 Mcps.

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
HS-PDSCH Timeslot Configuration List	MP	1 to <maxTS-12>			REL-5
>Timeslot Number	MP		Integer (0..14)		REL-5
>CHOICE Burst Type	MP				REL-5
>>Type 1					REL-5
>>>Midamble Allocation Mode	MP		Enumerated (Default midamble, Common midamble, UE specific midamble)		REL-5
>>>Midamble configuration burst type 1 and 3	MP		Integer (4, 8, 16)	As defined in [30]	REL-5
>>>Midamble Shift	CV-UE		Integer (0..15)		REL-5
>>Type 2					REL-5
>>>Midamble Allocation Mode	MP		Enumerated (Default midamble, Common midamble, UE specific midamble)		REL-5
>>>Midamble configuration burst type 2	MP		Integer (3, 6)	As defined in [30]	REL-5
>>>Midamble Shift	CV-UE		Integer (0..5)		REL-5

Condition	Explanation
UE	This IE is mandatory present when the value of the IE "Midamble Allocation Mode" is "UE specific midamble" and not needed otherwise.

----- 2nd Change -----

```
DL-HSPDSCH-Information ::= SEQUENCE {
  hs-scch-Info             HS-SCCH-Info OPTIONAL,
  measurement-feedback-Info Measurement-Feedback-Info OPTIONAL,
  modeSpecificInfo        CHOICE {
    tdd                     CHOICE {
      tdd384                SEQUENCE {
        dl-HSPDSCH-TS-Configuration DL-HSPDSCH-TS-Configuration OPTIONAL
      },
      tdd128                SEQUENCE {
        hs-PDSCH-Midamble-Configuration-tdd128
        HS-PDSCH-Midamble-Configuration-TDD128
      }
    }
  } OPTIONAL
},
fdd                       NULL
}
```

```
-- The IE 'DL-HSPDSCH-TS-Configuration' applies to tdd-384 REL-5 onward
DL-HSPDSCH-TS-Configuration ::= SEQUENCE (SIZE (1..maxTS-12)) OF
  SEQUENCE {
```

```

timeslot                               TimeslotNumber,
midambleShiftAndBurstType              MidambleShiftAndBurstType-DL
}

DL-InformationPerRL ::=
modeSpecificInfo
  fdd
    primaryCPICH-Info
    pdsch-SHO-DCH-Info
    pdsch-CodeMapping
  },
  tdd
    PrimaryCCPCH-Info
  },
dl-DPCH-InfoPerRL                      DL-DPCH-InfoPerRL
sccpch-InfoforFACH                     SCCPCH-InfoForFACH
}
OPTIONAL,
OPTIONAL

DL-InformationPerRL-r4 ::=
modeSpecificInfo
  fdd
    primaryCPICH-Info
    pdsch-SHO-DCH-Info
    pdsch-CodeMapping
  },
  tdd
    PrimaryCCPCH-Info-r4
  },
dl-DPCH-InfoPerRL                      DL-DPCH-InfoPerRL-r4
sccpch-InfoforFACH                     SCCPCH-InfoForFACH-r4
cell-id                                CellIdentity
}
OPTIONAL,
OPTIONAL,
OPTIONAL

DL-InformationPerRL-r5 ::=
modeSpecificInfo
  fdd
    primaryCPICH-Info
    pdsch-SHO-DCH-Info
    pdsch-CodeMapping
    servingHSDSCH-RL-indicator
  },
  tdd
    PrimaryCCPCH-Info-r4
  },
dl-DPCH-InfoPerRL                      DL-DPCH-InfoPerRL-r5
sccpch-InfoforFACH                     SCCPCH-InfoForFACH-r4
cell-id                                CellIdentity
}
OPTIONAL,
OPTIONAL,
OPTIONAL

DL-InformationPerRL-r5bis ::=
modeSpecificInfo
  fdd
    primaryCPICH-Info
    pdsch-SHO-DCH-Info
    pdsch-CodeMapping
  },
  tdd
    PrimaryCCPCH-Info-r4
  },
dl-DPCH-InfoPerRL                      DL-DPCH-InfoPerRL-r5
sccpch-InfoforFACH                     SCCPCH-InfoForFACH-r4
cell-id                                CellIdentity
}
OPTIONAL,
OPTIONAL,
OPTIONAL

```

----- End of Changes -----

CHANGE REQUEST

25.331 CR 2503 # rev - # Current version: 6.4.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	#	Number of timeslots that can be used for HS-PDSCH resource for 3.84 Mcps TDD	
Source:	#	RAN WG2	
Work item code:	#	HSDPA-L23	Date: # 10/01/2005
Category:	#	A	Release: # Rel-6
		Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	#	25.331 incorrectly permits only 12 timeslots to be used for HS-PDSCH resource. Other aspecifications (e.g. 25.222) permit 13 timeslots to be used for HS-PDSCH resource (15 slots minus the two slots containg P-CCPCH and PRACH).
Summary of change:	#	Tabular and ASN.1 HS-PDSCH Timeslot Configuration is altered to use maxTS-1 instead of maxTS-2
Consequences if not approved:	#	1. Implementations would be unnecessarily restricted to use of a maximum of 12 timeslots 2. Mismatch between 25.331 and 25.222

Clauses affected:	#	10.3.6.36o, 11.2								
Other specs affected:	#	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 20px; text-align: center;"> </td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 20px; text-align: center;"> </td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 20px; text-align: center;"> </td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N						
Y	N									
Other comments:	#	Impacts TDD 3.84 Mcps only								

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----- First Change -----

10.3.6.36o HS-PDSCH Timeslot Configuration

NOTE: Only for TDD 3.84 Mcps.

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
HS-PDSCH Timeslot Configuration List	MP	1 to <maxTS-12>			REL-5
>Timeslot Number	MP		Integer (0..14)		REL-5
>CHOICE Burst Type	MP				REL-5
>>Type 1					REL-5
>>>Midamble Allocation Mode	MP		Enumerated (Default midamble, Common midamble, UE specific midamble)		REL-5
>>>Midamble configuration burst type 1 and 3	MP		Integer (4, 8, 16)	As defined in [30]	REL-5
>>>Midamble Shift	CV-UE		Integer (0..15)		REL-5
>>Type 2					REL-5
>>>Midamble Allocation Mode	MP		Enumerated (Default midamble, Common midamble, UE specific midamble)		REL-5
>>>Midamble configuration burst type 2	MP		Integer (3, 6)	As defined in [30]	REL-5
>>>Midamble Shift	CV-UE		Integer (0..5)		REL-5

Condition	Explanation
UE	This IE is mandatory present when the value of the IE "Midamble Allocation Mode" is "UE specific midamble" and not needed otherwise.

----- 2nd Change -----

```
DL-HSPDSCH-Information ::= SEQUENCE {
  hs-scch-Info             HS-SCCH-Info OPTIONAL,
  measurement-feedback-Info Measurement-Feedback-Info OPTIONAL,
  modeSpecificInfo        CHOICE {
    tdd                    CHOICE {
      tdd384              SEQUENCE {
        dl-HSPDSCH-TS-Configuration DL-HSPDSCH-TS-Configuration OPTIONAL
      },
      tdd128              SEQUENCE {
        hs-PDSCH-Midamble-Configuration-TDD128
        HS-PDSCH-Midamble-Configuration-TDD128 OPTIONAL
      }
    },
    fdd                    NULL
  }
}
```

-- The IE 'DL-HSPDSCH-TS-Configuration' applies to tdd-384 REL-5 onward

```
DL-HSPDSCH-TS-Configuration ::= SEQUENCE (SIZE (1..maxTS-12)) OF
  SEQUENCE {
    timeslot              TimeslotNumber,
```

midambleShiftAndBurstType	MidambleShiftAndBurstType-DL	
}		
DL-InformationPerRL ::=	SEQUENCE {	
modeSpecificInfo	CHOICE {	
fdd	SEQUENCE {	
primaryCPICH-Info	PrimaryCPICH-Info,	
pdsch-SHO-DCH-Info	PDSCH-SHO-DCH-Info	OPTIONAL,
pdsch-CodeMapping	PDSCH-CodeMapping	OPTIONAL
},		
tdd	PrimaryCCPCH-Info	
},		
dl-DPCH-InfoPerRL	DL-DPCH-InfoPerRL	OPTIONAL,
sccpch-InfoforFACH	SCCPCH-InfoForFACH	OPTIONAL
}		
DL-InformationPerRL-r4 ::=	SEQUENCE {	
modeSpecificInfo	CHOICE {	
fdd	SEQUENCE {	
primaryCPICH-Info	PrimaryCPICH-Info,	
pdsch-SHO-DCH-Info	PDSCH-SHO-DCH-Info	OPTIONAL,
pdsch-CodeMapping	PDSCH-CodeMapping	OPTIONAL
},		
tdd	PrimaryCCPCH-Info-r4	
},		
dl-DPCH-InfoPerRL	DL-DPCH-InfoPerRL-r4	OPTIONAL,
sccpch-InfoforFACH	SCCPCH-InfoForFACH-r4	OPTIONAL,
cell-id	CellIdentity	OPTIONAL
}		
DL-InformationPerRL-r5 ::=	SEQUENCE {	
modeSpecificInfo	CHOICE {	
fdd	SEQUENCE {	
primaryCPICH-Info	PrimaryCPICH-Info,	
pdsch-SHO-DCH-Info	PDSCH-SHO-DCH-Info	OPTIONAL,
pdsch-CodeMapping	PDSCH-CodeMapping	OPTIONAL,
servingHSDSCH-RL-indicator	BOOLEAN	
},		
tdd	PrimaryCCPCH-Info-r4	
},		
dl-DPCH-InfoPerRL	DL-DPCH-InfoPerRL-r5	OPTIONAL,
sccpch-InfoforFACH	SCCPCH-InfoForFACH-r4	OPTIONAL,
cell-id	CellIdentity	OPTIONAL
}		
DL-InformationPerRL-r5bis ::=	SEQUENCE {	
modeSpecificInfo	CHOICE {	
fdd	SEQUENCE {	
primaryCPICH-Info	PrimaryCPICH-Info,	
pdsch-SHO-DCH-Info	PDSCH-SHO-DCH-Info	OPTIONAL,
pdsch-CodeMapping	PDSCH-CodeMapping	OPTIONAL
},		
tdd	PrimaryCCPCH-Info-r4	
},		
dl-DPCH-InfoPerRL	DL-DPCH-InfoPerRL-r5	OPTIONAL,
sccpch-InfoforFACH	SCCPCH-InfoForFACH-r4	OPTIONAL,
cell-id	CellIdentity	OPTIONAL
}		

----- End of Changes -----

CHANGE REQUEST

25.331 CR 2507 # rev **-** # Current version: **5.11.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# ASN.1 clarification on Cell and Channel Identity info for 1.28 Mcps TDD		
Source:	# RAN WG2		
Work item code:	# LCRTDD-L23	Date:	# 1/2/2005
Category:	# F	Release:	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		Ph2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)
			Rel-7 (Release 7)

Reason for change:	# Regarding the IE "CellAndChannelIdentity" in the ASN.1,		
	<pre> CellAndChannelIdentity ::= burstType midambleShift timeslot cellParametersID } SEQUENCE { BurstType, MidambleShiftLong, TimeslotNumber, CellParametersID } </pre>		
	burstType is only used for 3.84 Mcps TDD. For 1.28 Mcps TDD, UE should ignored it.		
Summary of change:	# One note was inserted in tabular and ASN.1 description associated with IE "CellAndChannelIdentity".		
Consequences if not approved:	# If not approved, for 1.28 Mcps TDD, receiving party UE/RNC fails to decipher the meaning of this IE.		

Clauses affected:	# 10.3.6.8a, 11.3										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;">#</td> <td style="padding: 2px 5px;">X</td> </tr> <tr> <td style="padding: 2px 5px;">#</td> <td style="padding: 2px 5px;">X</td> </tr> <tr> <td style="padding: 2px 5px;">#</td> <td style="padding: 2px 5px;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications # Test specifications # O&M Specifications #	
Y	N										
#	X										
#	X										
#	X										

Other comments: ☹

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

10.3.6.8a Cell and Channel Identity info

NOTE: Only for TDD.

Information Element/Group name	Need	Multi	Type and Reference	Semantics description
Burst type	MP		Enumerated (Type1, Type2)	Identifies the channel in combination with the Midamble shift and slot number. It is not used in 1.28 Mcps TDD and may be set to either value. This IE should be ignored by the receiver.
Midamble Shift	MP		Integer (0...15)	
Time Slot	OP		Timeslot number 10.3.6.84	This IE is present only if no IPDL scheme is configured in the reference cell. Otherwise the slot is defined by the IPDL configuration.
Cell parameters ID	MP		Cell parameters ID 10.3.6.9	Identifies the cell

11.3 Information element definitions

```

.
.
.
-- *****
--
--     PHYSICAL CHANNEL INFORMATION ELEMENTS (10.3.6)
--
-- *****
.
.
.
CD-CA-ICH-ChannelisationCode ::=      INTEGER (0..255)
CD-PreambleScramblingCode ::=        INTEGER (0..79)
CD-SignatureCode ::=                 INTEGER (0..15)
CD-SignatureCodeList ::=             SEQUENCE (SIZE (1..maxPCPCH-CDsig)) OF
                                      CD-SignatureCode

CellAndChannelIdentity ::=           SEQUENCE {
|  -- burstType may be set to either value and should be ignored by the receiver for 1.28 Mcps TDD.
  burstType                          BurstType,
  midambleShift                       MidambleShiftLong,
  timeslot                             TimeslotNumber,
  cellParametersID                     CellParametersID
}

CellParametersID ::=                 INTEGER (0..127)

CfntargetsInframeoffset ::=          INTEGER(0..255)

ChannelAssignmentActive ::=          CHOICE {
  notActive                            NULL,
  isActive                             AvailableMinimumSF-ListVCAM
}
.
.
.

```

CHANGE REQUEST

25.331 CR 2508 # rev - # Current version: 6.4.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# ASN.1 clarification on Cell and Channel Identity info for 1.28 Mcps TDD		
Source:	# RAN WG2		
Work item code:	# LCRTDD-L23	Date:	# 1/2/2005
Category:	# A	Release:	# Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

Reason for change:	# Regarding the IE "CellAndChannelIdentity" in the ASN.1,		
	<pre> CellAndChannelIdentity ::= SEQUENCE { burstType BurstType, midambleShift MidambleShiftLong, timeslot TimeslotNumber, cellParametersID CellParametersID } </pre> <p>burstType is only used for 3.84 Mcps TDD. For 1.28 Mcps TDD, UE should ignore it.</p>		
Summary of change:	# One note was inserted in tabular and ASN.1 description associated with IE "CellAndChannelIdentity".		
Consequences if not approved:	# If not approved, for 1.28 Mcps TDD, receiving party UE/RNC fails to decipher the meaning of this IE.		

Clauses affected:	# 5.1										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications Test specifications O&M Specifications	#
Y	N										
#	X										
#	X										
#	X										

Other comments: ☹

How to create CRs using this form:

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

10.3.6.8a Cell and Channel Identity info

NOTE: Only for TDD.

Information Element/Group name	Need	Multi	Type and Reference	Semantics description
Burst type	MP		Enumerated (Type1, Type2)	Identifies the channel in combination with the Midamble shift and slot number. It is not used in 1.28 Mcps TDD and may be set to either value. This IE should be ignored by the receiver.
Midamble Shift	MP		Integer (0...15)	
Time Slot	OP		Timeslot number 10.3.6.84	This IE is present only if no IPDL scheme is configured in the reference cell. Otherwise the slot is defined by the IPDL configuration.
Cell parameters ID	MP		Cell parameters ID 10.3.6.9	Identifies the cell

11.3 Information element definitions

```

.
.
.
-- *****
--
--     PHYSICAL CHANNEL INFORMATION ELEMENTS (10.3.6)
--
-- *****
.
.
.
CD-CA-ICH-ChannelisationCode ::=      INTEGER (0..255)
CD-PreambleScramblingCode ::=         INTEGER (0..79)
CD-SignatureCode ::=                  INTEGER (0..15)
CD-SignatureCodeList ::=              SEQUENCE (SIZE (1..maxPCPCH-CDsig)) OF
                                       CD-SignatureCode

CellAndChannelIdentity ::=            SEQUENCE {
|  -- burstType may be set to either value and should be ignored by the receiver for 1.28 Mcps TDD.
  burstType                           BurstType,
  midambleShift                        MidambleShiftLong,
  timeslot                             TimeslotNumber,
  cellParametersID                     CellParametersID
}

CellParametersID ::=                  INTEGER (0..127)

CfntargetsInframeoffset ::=           INTEGER(0..255)

ChannelAssignmentActive ::=           CHOICE {
  notActive                            NULL,
  isActive                             AvailableMinimumSF-ListVCAM
}
.
.
.

```

CHANGE REQUEST

25.331 CR 2518 # rev - # Current version: 5.11.0

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Clarification of GERAN (P)SI message coding in NACC		
Source:	# RAN WG2		
Work item code:	# TEI5	Date:	# 08/02/2005
Category:	# F	Release:	# Rel-5
	<p>Use <u>one</u> of the following categories:</p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

Reason for change:	<p># The contents of the GERAN (P)SI blocks is not clear in 25.331 for 3G->2G NACC. It should be clarified that the approach is the same that is used in 2G->2G NACC case, ie. that PSI message are encoded as such, whereas SI messages exclude 2 octets of unnecessary headers. See below the excerpt from 44.060:</p> <p>44.060 11.2.9e: "If the contained system information messages are copied from the BCCH the information contained in the Packet Neighbour Cell Data message shall exclude the following information elements from the beginning of the messages: L2 Pseudo Length; RR management Protocol Discriminator and Skip Indicator.</p> <p>If the contained system information messages are copied from the PBCCH the information contained in the Packet Neighbour Cell Data message shall include the complete PSI message.</p> <p>Extra octets of padding bits at the end of the SI/PSI messages may be excluded."</p>
Summary of change:	<p># Added a note to clarify the contents of the GERAN (P)SI blocks in 3G->2G NACC.</p> <p>Isolated Impact Analysis</p> <p>Isolated impact statement: Correction to a function where specification was ambiguous. Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise.</p>

Consequences if not approved: ⌘ Specification is ambiguous and inconsistent, and may lead to inter-operability issues.

Clauses affected: ⌘ 8.3.11.3

	Y	N		⌘
Other specs affected:		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.11 Inter-RAT cell change order from UTRAN

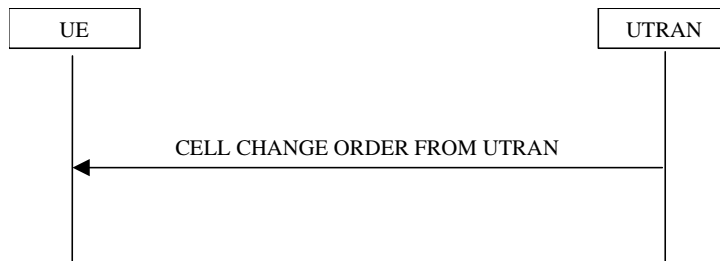


Figure 8.3.11-1: Inter-RAT cell change order from UTRAN

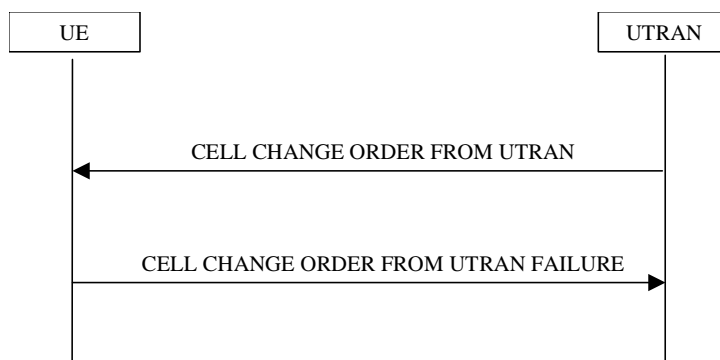


Figure 8.3.11-2: Inter-RAT cell change order from UTRAN, failure case

8.3.11.1 General

The purpose of the inter-RAT cell change order procedure is to transfer, under the control of the network, a connection between the UE and UTRAN to another radio access technology (e.g. GSM). This procedure may be used in CELL_DCH and CELL_FACH state. This procedure may be used when no RABs are established or when the established RABs are only from PS domain. This procedure may not be used when there is no PS signalling connection.

8.3.11.2 Initiation

The procedure is initiated when UTRAN orders a UE in CELL_DCH or CELL_FACH state, to make a cell change to a radio access technology other than UTRAN, e.g. GSM.

To initiate the procedure, UTRAN sends a CELL CHANGE ORDER FROM UTRAN message.

8.3.11.3 Reception of an CELL CHANGE ORDER FROM UTRAN message by the UE

The UE shall be able to receive a CELL CHANGE ORDER FROM UTRAN message and perform a cell change order to another RAT, even if no prior UE measurements have been performed on the target cell.

If the variable ESTABLISHED_SIGNALLING_CONNECTIONS does not include the CN domain identity "PS domain", or if the variable ESTABLISHED_SIGNALLING_CONNECTIONS includes the CN domain identity "CS domain":

- 1> the UE shall act as if the message was never received.

The UE shall:

- 1> if the UE has a pending "TGPS reconfiguration CFN" at the activation time received in the CELL CHANGE ORDER FROM UTRAN message the UE may:
 - 2> abort the pending CM activation;
 - 2> set the CM_PATTERN_ACTIVATION_ABORTED to TRUE.

1> otherwise:

2> set the CM_PATTERN_ACTIVATION_ABORTED to FALSE.

1> start timer T309; and

1> establish the connection to the other radio access technology, as specified within IE "Target cell description". This IE specifies the target cell identity, in accordance with the specifications for that other RAT. In case the target cell is a GSM/ GPRS cell, IE "Target cell description" may also include IE "NC mode", which specifies the cell selection mode to be applied in the target cell; and

1> if IE "NC mode" is not included in the CELL CHANGE ORDER FROM UTRAN:

2> retrieve it from the target cell as specified in [43];

2> act upon IE "NC mode" as specified in [43].

1> if the IE "RAB Information List" is included in the CELL CHANGE ORDER FROM UTRAN message:

2> ignore the contents of the IE "RAB Information List".

NOTE: Requirements concerning the establishment of the radio connection towards the other radio access technology and the signalling procedure are outside the scope of this specification. In case of GSM/GPRS proceed according to the procedure Network control cell reselection procedure as specified in [44].

1> if the UE supports UTRAN to GERAN Network Assisted Cell Change, the IE "Geran_System Information" is present and the UE is in CELL_DCH state:

2> if according to [44] the IE "GERAN System Information" includes a correct and consistent set of SI or PSI messages:

3> use this information as the system information to begin access on the target GERAN cell.

2> otherwise:

3> ignore the IE "GERAN System Information" and continue the Cell Change Order procedure.

NOTE: The IE "GERAN System Information" is constructed in the same way as in 2G to 2G NACC, ie. the PSI messages are encoded as such, whereas the SI messages exclude 2 octets of headers, see [44].

8.3.11.4 Successful completion of the cell change order

The UE regards the procedure as completed when it has received a successful response from the target RAT, e.g. in case of GSM when it received the response to a (PACKET) CHANNEL REQUEST in the new cell.

Upon successful completion of the cell change order, the UE shall:

1> stop timer T309;

1> clear or set variables upon leaving UTRA RRC connected mode as specified in subclause 13.4.

Upon indication of the UE having successfully completed the cell change order, UTRAN should:

1> release the radio connection; and

1> remove all context information for the concerned UE.

NOTE: The release of the UMTS radio resources is initiated from another RAT.

8.3.11.5 Expiry of timer T309 or UE fails to complete requested cell change order

If:

- timer T309 expires prior to the successful establishment of a connection to the target RAT; or

- if the establishment of the connection to the other RAT failed due to other reasons e.g. (random) access failure, rejection due to lack of resources:

the UE shall:

- 1> if it received the CELL CHANGE ORDER FROM UTRAN message in state CELL_DCH:
 - 2> if the CM_PATTERN_ACTIVATION_ABORTED flag is not set to TRUE:
 - 3> revert back to the UTRA configuration;
 - 3> establish the UTRA physical channel(s) (including HS-DSCH related channels) used at the time for reception of CELL CHANGE ORDER FROM UTRAN.
 - 2> perform the physical layer synchronisation procedure A as specified in [29] (FDD only);
 - 2> after the establishment of the uplink physical channel, send DPCCCH and no DPDCH according to [26] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and
 - 2> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE;
 - 2> if the CM_PATTERN_ACTIVATION_ABORTED flag is set to TRUE or if the UE does not succeed in establishing the UTRA physical channel(s):
 - 3> perform a cell update procedure according to subclause 8.3.1 with cause "Radio link failure";
 - 3> when the cell update procedure has completed successfully:
 - 4> proceed as below.
 - 2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:
 - 3> include the IE "RRC transaction identifier"; and
 - 3> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 3> clear that entry;
 - 3> set the IE "Inter-RAT change failure" to "physical channel failure".
 - 2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission, the procedure ends.
- 1> if the UE receives the CELL CHANGE ORDER FROM UTRAN message in CELL_FACH state:
 - 2> revert to the cell it was camped on at the reception of the CELL CHANGE ORDER FROM UTRAN message;
 - 2> if the UE is unable to return to this cell:
 - 3> select a suitable UTRA cell according to [4];
 - 3> initiate the cell update procedure according to subclause 8.3.1 using the cause "cell re-selection";
 - 3> when the cell update procedure completed successfully:
 - 4> proceed as below.
 - 2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:
 - 3> include the IE "RRC transaction identifier"; and

- 3> set it to the value of "RRC transaction identifier" in the entry for the CELL CHANGE ORDER FROM UTRAN message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 3> clear that entry;
 - 3> set the IE "Inter-RAT change failure" to "physical channel failure".
- 2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission:
 - 3> the procedure ends.

8.3.11.6 Unsupported configuration in CELL CHANGE ORDER FROM UTRAN message

If the UTRAN instructs the UE to perform a non-supported cell change order scenario or to use a non-supported configuration, the UE shall:

- 1> transmit a CELL CHANGE ORDER FROM UTRAN FAILURE message, setting the information elements as specified below:
 - 2> include the IE "RRC transaction identifier"; and
 - 2> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 2> clear that entry;
 - 2> set the IE "Inter-RAT change failure" to "configuration unacceptable";
 - 2> when the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layers for transmission:
 - 3> resume normal operation as if the CELL CHANGE ORDER FROM UTRAN message has not been received;
 - 3> and the procedure ends.

8.3.11.7 Invalid CELL CHANGE ORDER FROM UTRAN message

If the CELL CHANGE ORDER FROM UTRAN message contains a protocol error causing the variable PROTOCOL_ERROR_REJECT to be set to TRUE according to clause 9, the UE shall perform procedure specific error handling as follows. The UE shall:

- 1> set the IE "RRC transaction identifier" in the CELL CHANGE ORDER FROM UTRAN FAILURE message to the value of "RRC transaction identifier" in the entry for the CELL CHANGE ORDER FROM UTRAN message in the table "Rejected transactions" in the variable TRANSACTIONS; and
- 1> clear that entry;
- 1> set the IE "Inter-RAT change failure" to the cause value "protocol error";
- 1> include the IE "Protocol error information" with contents set to the value of the variable PROTOCOL_ERROR_INFORMATION;
- 1> transmit a CELL CHANGE ORDER FROM UTRAN FAILURE message on the uplink DCCH using AM RLC;
- 1> when the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layers for transmission:
 - 2> resume normal operation as if the invalid CELL CHANGE ORDER FROM UTRAN message has not been received;
 - 2> and the procedure ends.

10.3.8.4f GERAN system information

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
>>> GERAN System Info	MP	1 to <maxGERAN SI>			REL-5
>>>> GERAN system info block	MP		Octet string(1..23)	The first octet contains octet 1 of the GERAN system information block, the second octet contains octet 2 of the GERAN system information block and so on.	REL-5

CHANGE REQUEST

25.331 CR 2519 # rev - # Current version: 6.4.0

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Clarification of GERAN (P)SI message coding in NACC		
Source:	# RAN WG2		
Work item code:	# TEI5	Date:	# 08/02/2005
Category:	# A	Release:	# Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	# The contents of the GERAN (P)SI blocks is not clear in 25.331 for 3G->2G NACC. It should be clarified that the approach is the same that is used in 2G->2G NACC case, ie. that PSI message are encoded as such, whereas SI messages exclude 2 octets of unnecessary headers. See below the excerpt from 44.060: 44.060 11.2.9e: "If the contained system information messages are copied from the BCCH the information contained in the Packet Neighbour Cell Data message shall exclude the following information elements from the beginning of the messages: L2 Pseudo Length; RR management Protocol Discriminator and Skip Indicator. If the contained system information messages are copied from the PBCCH the information contained in the Packet Neighbour Cell Data message shall include the complete PSI message. Extra octets of padding bits at the end of the SI/PSI messages may be excluded."
Summary of change:	# Added a note to clarify the contents of the GERAN (P)SI blocks in 3G->2G NACC. Isolated Impact Analysis Isolated impact statement: Correction to a function where specification was ambiguous. Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise.

Consequences if not approved: ⌘ Specification is ambiguous and inconsistent, and may lead to inter-operability issues.

Clauses affected: ⌘ 8.3.11.3

	Y	N		⌘
Other specs affected:		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.11 Inter-RAT cell change order from UTRAN

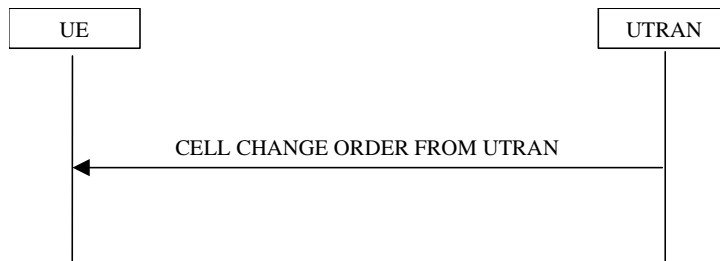


Figure 8.3.11-1: Inter-RAT cell change order from UTRAN

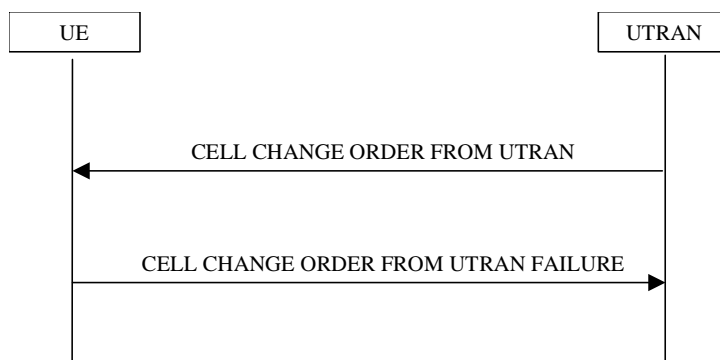


Figure 8.3.11-2: Inter-RAT cell change order from UTRAN, failure case

8.3.11.1 General

The purpose of the inter-RAT cell change order procedure is to transfer, under the control of the network, a connection between the UE and UTRAN to another radio access technology (e.g. GSM). This procedure may be used in CELL_DCH and CELL_FACH state. This procedure may be used when no RABs are established or when the established RABs are only from PS domain. This procedure may not be used when there is no PS signalling connection.

8.3.11.2 Initiation

The procedure is initiated when UTRAN orders a UE in CELL_DCH or CELL_FACH state, to make a cell change to a radio access technology other than UTRAN, e.g. GSM.

To initiate the procedure, UTRAN sends a CELL CHANGE ORDER FROM UTRAN message.

8.3.11.3 Reception of an CELL CHANGE ORDER FROM UTRAN message by the UE

The UE shall be able to receive a CELL CHANGE ORDER FROM UTRAN message and perform a cell change order to another RAT, even if no prior UE measurements have been performed on the target cell.

If the variable ESTABLISHED_SIGNALLING_CONNECTIONS does not include the CN domain identity "PS domain", or if the variable ESTABLISHED_SIGNALLING_CONNECTIONS includes the CN domain identity "CS domain":

- 1> the UE shall act as if the message was never received.

The UE shall:

- 1> if the UE has a pending "TGPS reconfiguration CFN" at the activation time received in the CELL CHANGE ORDER FROM UTRAN message the UE may:
 - 2> abort the pending CM activation;
 - 2> set the CM_PATTERN_ACTIVATION_ABORTED to TRUE.

1> otherwise:

2> set the CM_PATTERN_ACTIVATION_ABORTED to FALSE.

1> start timer T309; and

1> establish the connection to the other radio access technology, as specified within IE "Target cell description". This IE specifies the target cell identity, in accordance with the specifications for that other RAT. In case the target cell is a GSM/ GPRS cell, IE "Target cell description" may also include IE "NC mode", which specifies the cell selection mode to be applied in the target cell; and

1> if IE "NC mode" is not included in the CELL CHANGE ORDER FROM UTRAN:

2> retrieve it from the target cell as specified in [43];

2> act upon IE "NC mode" as specified in [43].

1> if the IE "RAB Information List" is included in the CELL CHANGE ORDER FROM UTRAN message:

2> ignore the contents of the IE "RAB Information List".

NOTE: Requirements concerning the establishment of the radio connection towards the other radio access technology and the signalling procedure are outside the scope of this specification. In case of GSM/GPRS proceed according to the procedure Network control cell reselection procedure as specified in [44].

1> if the UE supports UTRAN to GERAN Network Assisted Cell Change, the IE "Geran_System Information" is present and the UE is in CELL_DCH state:

2> if according to [44] the IE "GERAN System Information" includes a correct and consistent set of SI or PSI messages:

3> use this information as the system information to begin access on the target GERAN cell.

2> otherwise:

3> ignore the IE "GERAN System Information" and continue the Cell Change Order procedure.

NOTE: The IE "GERAN System Information" is constructed in the same way as in 2G to 2G NACC, ie. the PSI messages are encoded as such, whereas the SI messages exclude 2 octets of headers, see [44].

8.3.11.4 Successful completion of the cell change order

The UE regards the procedure as completed when it has received a successful response from the target RAT, e.g. in case of GSM when it received the response to a (PACKET) CHANNEL REQUEST in the new cell.

Upon successful completion of the cell change order, the UE shall:

1> stop timer T309;

1> clear or set variables upon leaving UTRA RRC connected mode as specified in subclause 13.4.

Upon indication of the UE having successfully completed the cell change order, UTRAN should:

1> release the radio connection; and

1> remove all context information for the concerned UE.

NOTE: The release of the UMTS radio resources is initiated from another RAT.

8.3.11.5 Expiry of timer T309 or UE fails to complete requested cell change order

If:

- timer T309 expires prior to the successful establishment of a connection to the target RAT; or

- if the establishment of the connection to the other RAT failed due to other reasons e.g. (random) access failure, rejection due to lack of resources:

the UE shall:

- 1> if it received the CELL CHANGE ORDER FROM UTRAN message in state CELL_DCH:
 - 2> if the CM_PATTERN_ACTIVATION_ABORTED flag is not set to TRUE:
 - 3> revert back to the UTRA configuration;
 - 3> establish the UTRA physical channel(s) (including HS-DSCH and E-DCH related channels) used at the time for reception of CELL CHANGE ORDER FROM UTRAN.
 - 2> perform the physical layer synchronisation procedure A as specified in [29] (FDD only);
 - 2> after the establishment of the uplink physical channel, send DPCCCH and no DPDCH according to [26] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and
 - 2> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE;
 - 2> if the CM_PATTERN_ACTIVATION_ABORTED flag is set to TRUE or if the UE does not succeed in establishing the UTRA physical channel(s):
 - 3> perform a cell update procedure according to subclause 8.3.1 with cause "Radio link failure";
 - 3> when the cell update procedure has completed successfully:
 - 4> proceed as below.
 - 2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:
 - 3> include the IE "RRC transaction identifier"; and
 - 3> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 3> clear that entry;
 - 3> set the IE "Inter-RAT change failure" to "physical channel failure".
 - 2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission, the procedure ends.
- 1> if the UE receives the CELL CHANGE ORDER FROM UTRAN message in CELL_FACH state:
 - 2> revert to the cell it was camped on at the reception of the CELL CHANGE ORDER FROM UTRAN message;
 - 2> if the UE is unable to return to this cell:
 - 3> select a suitable UTRA cell according to [4];
 - 3> initiate the cell update procedure according to subclause 8.3.1 using the cause "cell re-selection";
 - 3> when the cell update procedure completed successfully:
 - 4> proceed as below.
 - 2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:
 - 3> include the IE "RRC transaction identifier"; and

- 3> set it to the value of "RRC transaction identifier" in the entry for the CELL CHANGE ORDER FROM UTRAN message in the table "Accepted transactions" in the variable TRANSACTIONS; and
- 3> clear that entry;
- 3> set the IE "Inter-RAT change failure" to "physical channel failure".
- 2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission:
 - 3> the procedure ends.

8.3.11.6 Unsupported configuration in CELL CHANGE ORDER FROM UTRAN message

If the UTRAN instructs the UE to perform a non-supported cell change order scenario or to use a non-supported configuration, the UE shall:

- 1> transmit a CELL CHANGE ORDER FROM UTRAN FAILURE message, setting the information elements as specified below:
 - 2> include the IE "RRC transaction identifier"; and
 - 2> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 2> clear that entry;
 - 2> set the IE "Inter-RAT change failure" to "configuration unacceptable";
 - 2> when the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layers for transmission:
 - 3> resume normal operation as if the CELL CHANGE ORDER FROM UTRAN message has not been received;
 - 3> and the procedure ends.

8.3.11.7 Invalid CELL CHANGE ORDER FROM UTRAN message

If the CELL CHANGE ORDER FROM UTRAN message contains a protocol error causing the variable PROTOCOL_ERROR_REJECT to be set to TRUE according to clause 9, the UE shall perform procedure specific error handling as follows. The UE shall:

- 1> set the IE "RRC transaction identifier" in the CELL CHANGE ORDER FROM UTRAN FAILURE message to the value of "RRC transaction identifier" in the entry for the CELL CHANGE ORDER FROM UTRAN message in the table "Rejected transactions" in the variable TRANSACTIONS; and
- 1> clear that entry;
- 1> set the IE "Inter-RAT change failure" to the cause value "protocol error";
- 1> include the IE "Protocol error information" with contents set to the value of the variable PROTOCOL_ERROR_INFORMATION;
- 1> transmit a CELL CHANGE ORDER FROM UTRAN FAILURE message on the uplink DCCH using AM RLC;
- 1> when the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layers for transmission:
 - 2> resume normal operation as if the invalid CELL CHANGE ORDER FROM UTRAN message has not been received;
 - 2> and the procedure ends.

10.3.8.4f GERAN system information

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
>>> GERAN System Info	MP	1 to <maxGERAN SI>			REL-5
>>>> GERAN system info block	MP		Octet string(1..23)	The first octet contains octet 1 of the GERAN system information block, the second octet contains octet 2 of the GERAN system information block and so on.	REL-5