

TSG RAN Meeting #22
Maui, USA, 9 - 12 December 2003

RP-030674

Title CRs CRs (Rel-4 and Rel-5 Category A) to TS 25.433
Source TSG RAN WG3
Agenda Item 7.4.4

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-031517	25.433	4.10.0	4.11.0	REL-4	899	1	F	Correction of wrong number in GPS Timing calculation	TEI4
R3-031518	25.433	5.6.0	5.7.0	REL-5	900	1	A	Correction of wrong number in GPS Timing calculation	TEI4
R3-031558	25.433	4.10.0	4.11.0	REL-4	912	-	F	Correction of the repetition name for 1.28Mcps TDD in the RADIO LINK RECONFIGURATION PREPARE TDD message	TEI4
R3-031559	25.433	5.6.0	5.7.0	REL-5	913	-	A	Correction of the repetition name for 1.28Mcps TDD in the RADIO LINK RECONFIGURATION PREPARE TDD message	TEI4
R3-031806	25.433	4.10.0	4.11.0	REL-4	914	1	F	Correction of Node B synchronisation procedures	RANimp-Nbsync
R3-031807	25.433	5.6.0	5.7.0	REL-5	915	1	A	Correction of Node B synchronisation procedures	RANimp-Nbsync
R3-031562	25.433	4.10.0	4.11.0	REL-4	916	-	F	Correction of the ProtocolIE-Single-Containers in ASN.1 for TDD	TEI4
R3-031563	25.433	5.6.0	5.7.0	REL-5	917	-	A	Correction of the ProtocolIE-Single-Containers in ASN.1 for TDD	TEI4
R3-031564	25.433	4.10.0	4.11.0	REL-4	918	-	F	ASN.1 corrections for 1.28Mcps TDD	LCRTDD-IubIur
R3-031565	25.433	5.6.0	5.7.0	REL-5	919	-	A	ASN.1 corrections for 1.28Mcps TDD	LCRTDD-IubIur
R3-031614	25.433	4.10.0	4.11.0	REL-4	926	-	F	Clarification of Timing advance applied for 1.28Mcps TDD	TEI4
R3-031615	25.433	5.6.0	5.7.0	REL-5	927	-	A	Clarification of Timing advance applied for 1.28Mcps TDD	TEI4
R3-031751	25.433	4.10.0	4.11.0	REL-4	950	-	F	Extension of <i>Requested Data Value</i> IE	TEI4
R3-031752	25.433	5.6.0	5.7.0	REL-5	951	-	A	Extension of <i>Requested Data Value</i> IE	TEI4

CR-Form-v7

CHANGE REQUEST

25.433 CR 899 # rev **1** # Current version: **4.10.0**

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:	# Correction of Wrong Number in GPS Timing Calculation		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 10/11/2003
Category:	# F	Release:	# Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (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)

Reason for change:	# There is a incorrect number in a formula for a GPS calculation.		
Summary of change:	# The number is changed from 37152912000000 to 37158912000000.		
	<u>Impact Analysis:</u>		
	Impact assessment towards the previous version of the specification (same release):		
	This CR has isolated impact with the previous version of the specification (same release) because it corrects only an obviously incorrect number.		
	This CR has isolated impact under protocol point of view.		
	The impact can be considered isolated because the change affects no functionality.		
Consequences if not approved:	# The number remains incorrect in the document.		

Clauses affected:	# 8.2.8.2										
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;">X</td> <td style="text-align: center;"></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	# CR900r1 25.433 Rel-5
Y	N										
X											
	X										
	X										
		Test specifications									
		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.

8.2.8 Common Measurement Initiation

8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

8.2.8.2 Successful Operation

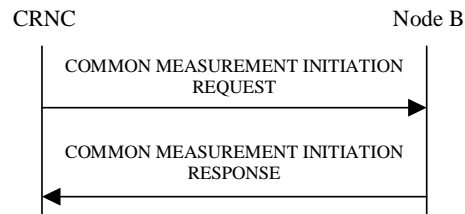


Figure 11: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

[TDD - If the [3.84Mcps TDD – *Time Slot IE*] [1.28Mcps TDD – *Time Slot LCR IE*] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

[FDD - If the *Spreading Factor IE* is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the PCPCHs whose minimum allowed spreading factor (Min UL Channelisation Code Length) is equal to the value of the *Spreading Factor IE*.

If the *Common Measurement Type IE* is not set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator IE* is set to "FN Reporting Required", the *SFN IE* shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics IE* is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25]. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator IE* is ignored.

Common measurement type

If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID IE* and the neighbouring cells identified by the *UTRAN Cell Identifier(UC-Id) IE* in the *Neighbouring Cell Measurement Information IE*.

Report characteristics

The *Report Characteristics IE* indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics IE* is set to "On-Demand" and if the *SFN IE* is not provided, the Node B shall return the result of the requested measurement immediately. If the *SFN IE* is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics IE* is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE* in the *SFN-SFN Measurement Value Information IE* and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE* all the remaining neighbouring cells with no measurement result available in

the Common Measurement Reporting procedure. If the *SFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25]. Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

1. If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":
 - If the *T_{UTRAN-GPS} Change Limit* IE is included in the *T_{UTRAN-GPS} Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of *T_{UTRAN-GPS}* value (F_n). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of F_n rises above the threshold indicated by the *T_{UTRAN-GPS} Change Limit* IE. The change of *T_{UTRAN-GPS}* value (F_n) is calculated according to the following:

$$F_n = 0 \text{ for } n = 0$$

$$F_n = (M_n - M_{n-1}) \bmod 371528912000000 - ((SFN_n - SFN_{n-1}) \bmod 4096) * 10^3 * 3.84 * 10^3 * 16 + F_{n-1}$$

$$\text{for } n > 0$$

F_n is the change of the *T_{UTRAN-GPS}* value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_n is the latest measurement result received after point C in the measurement model [25], measured at SFN_n.

M_{n-1} is the previous measurement result received after point C in the measurement model [25], measured at SFN_{n-1}.

M_1 is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the *Predicted T_{UTRAN-GPS} Deviation Limit* IE is included in the *T_{UTRAN-GPS} Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P_n and F_n. The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when F_n rises above the threshold indicated by the *Predicted T_{UTRAN-GPS} Deviation Limit* IE. The P_n and F_n are calculated according to the following:

$$P_n = b \text{ for } n=0$$

$$P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \text{ mod } 4096)/100 + ((SFN_n - SFN_{n-1}) \text{ mod } 4096) * 10 * 3.84 * 10^3 * 16 + P_{n-1}) \text{ mod } 37158912000000 \text{ for } n>0$$

$$F_n = \min((M_n - P_n) \text{ mod } 37158912000000, (P_n - M_n) \text{ mod } 37158912000000) \text{ for } n>0$$

P_n is the predicted T_{UTRAN-GPS} value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T_{UTRAN-GPS} Drift Rate value.

b is the last reported T_{UTRAN-GPS} value.

F_n is the deviation of the last measurement result from the predicted T_{UTRAN-GPS} value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_n is the latest measurement result received after point C in the measurement model [25], measured at SFN_n.

M_1 is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The T_{UTRAN-GPS} Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

2. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference":

- If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of SFN-SFN value (F_n). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when F_n rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

$$F_n = 0 \text{ for } n=0$$

$$[\text{FDD} - F_n = (M_n - a) \text{ mod } 614400 \text{ for } n>0]$$

$$[\text{TDD} - F_n = (M_n - a) \text{ mod } 40960 \text{ for } n>0]$$

F_n is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN.

M_n is the latest measurement result received after point C in the measurement model [25], measured at SFN_n.

M_j is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P_n and F_n . The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when the F_n rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P_n and F_n are calculated according to the following:

$$P_n = b \text{ for } n=0$$

$$[\text{FDD} - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \bmod 4096)/100 + P_{n-1}) \bmod 614400 \quad \text{for } n>0]$$

$$[\text{FDD} - F_n = \min((M_n - P_n) \bmod 614400, (P_n - M_n) \bmod 614400) \quad \text{for } n>0]$$

$$[\text{TDD} - P_n = ((a/16) * (15*(SFN_n - SFN_{n-1}) \bmod 4096 + (TS_n - TS_{n-1})/1500 + P_{n-1}) \bmod 40960 \quad \text{for } n>0]$$

$$[\text{TDD} - F_n = \min((M_n - P_n) \bmod 40960, (P_n - M_n) \bmod 40960) \quad \text{for } n>0]$$

P_n is the predicted *SFN-SFN* value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported *SFN-SFN Drift Rate* value.

b is the last reported *SFN-SFN* value.

abs denotes the absolute value.

F_n is the deviation of the last measurement result from the predicted *SFN-SFN* value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_n is the latest measurement result received after point C in the measurement model [25], measured at [TDD - the Time Slot TS_n of] the Frame SFN_n .

M_j is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

The *SFN-SFN Drift Rate* is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Common Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

/* partly omitted */

CHANGE REQUEST

25.433 CR 900 # rev **1** # Current version: **5.6.0**

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:	# Correction of Wrong Number in GPS Timing Calculation #		
Source:	# RAN3 #		
Work item code:	# TEI4 #	Date:	# 10/11/2003 #
Category:	# A #	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: 2 (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)

Reason for change:	# There is a incorrect number in a formula for a GPS calculation. #
Summary of change:	# The number is changed from 37152912000000 to 37158912000000. #
	Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it corrects only an obviously incorrect number. This CR has isolated impact under protocol point of view. The impact can be considered isolated because the change affects no functionality.
Consequences if not approved:	# The number remains incorrect in the document. #

Clauses affected:	# 8.2.8.2 #										
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Y	N										
X											
	X										
	X										
Other comments:	# #										

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8.2.8 Common Measurement Initiation

8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

8.2.8.2 Successful Operation

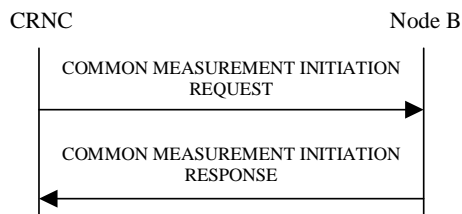


Figure 11: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

[TDD - If the [3.84Mcps TDD - *Time Slot IE*] [1.28Mcps TDD - *Time Slot LCR IE*] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

[FDD - If the *Spreading Factor IE* is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the PCPCHs whose minimum allowed spreading factor (Min UL Channelisation Code Length) is equal to the value of the *Spreading Factor IE*.]

If the *Common Measurement Type IE* is not set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator IE* is set to "FN Reporting Required", the *SFN IE* shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics IE* is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25]. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator IE* is ignored.

Common measurement type:

If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID IE* and the neighbouring cells identified by the *UTRAN Cell Identifier(UC-Id) IE* in the *Neighbouring Cell Measurement Information IE*.

Report characteristics:

The *Report Characteristics IE* indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics IE* is set to "On Demand" and if the *SFN IE* is not provided, the Node B shall return the result of the requested measurement immediately. If the *SFN IE* is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics IE* is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE* in the *SFN-SFN Measurement Value Information IE* and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE* all the remaining neighbouring cells with no measurement result available in

the Common Measurement Reporting procedure. If the *SFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25]. Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

1. If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":
 - If the *T_{UTRAN-GPS} Change Limit* IE is included in the *T_{UTRAN-GPS} Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of *T_{UTRAN-GPS}* value (F_n). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of F_n rises above the threshold indicated by the *T_{UTRAN-GPS} Change Limit* IE. The change of *T_{UTRAN-GPS}* value (F_n) is calculated according to the following:

$$F_n = 0 \text{ for } n = 0$$

$$F_n = (M_n - M_{n-1}) \bmod 371528912000000 - ((SFN_n - SFN_{n-1}) \bmod 4096) * 10^3 * 3.84 * 10^3 * 16 + F_{n-1}$$

$$\text{for } n > 0$$

F_n is the change of the *T_{UTRAN-GPS}* value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_n is the latest measurement result received after point C in the measurement model [25], measured at SFN_n.

M_{n-1} is the previous measurement result received after point C in the measurement model [25], measured at SFN_{n-1}.

M_1 is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the *Predicted T_{UTRAN-GPS} Deviation Limit* IE is included in the *T_{UTRAN-GPS} Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P_n and F_n. The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when F_n rises above the threshold indicated by the *Predicted T_{UTRAN-GPS} Deviation Limit* IE. The P_n and F_n are calculated according to the following:

$$P_n = b \text{ for } n=0$$

$$P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \bmod 4096)/100 + ((SFN_n - SFN_{n-1}) \bmod 4096) * 10 * 3.84 * 10^3 * 16 + P_{n-1}) \bmod 37158912000000 \text{ for } n>0$$

$$F_n = \min((M_n - P_n) \bmod 37158912000000, (P_n - M_n) \bmod 37158912000000) \text{ for } n>0$$

P_n is the predicted T_{UTRAN-GPS} value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T_{UTRAN-GPS} Drift Rate value.

b is the last reported T_{UTRAN-GPS} value.

F_n is the deviation of the last measurement result from the predicted T_{UTRAN-GPS} value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_n is the latest measurement result received after point C in the measurement model [25], measured at SFN_n.

M_1 is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The T_{UTRAN-GPS} Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

2. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference":

- If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of SFN-SFN value (F_n). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when F_n rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

$$F_n = 0 \text{ for } n=0$$

$$[\text{FDD} - F_n = (M_n - a) \bmod 614400 \text{ for } n>0]$$

$$[\text{TDD} - F_n = (M_n - a) \bmod 40960 \text{ for } n>0]$$

F_n is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN.

M_n is the latest measurement result received after point C in the measurement model [25], measured at SFN_n.

M_j is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P_n and F_n . The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when the F_n rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P_n and F_n are calculated according to the following:

$$P_n = b \text{ for } n=0$$

$$[\text{FDD} - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \bmod 4096)/100 + P_{n-1}) \bmod 614400 \quad \text{for } n>0]$$

$$[\text{FDD} - F_n = \min((M_n - P_n) \bmod 614400, (P_n - M_n) \bmod 614400) \quad \text{for } n>0]$$

$$[\text{TDD} - P_n = ((a/16) * (15*(SFN_n - SFN_{n-1}) \bmod 4096 + (TS_n - TS_{n-1})/1500 + P_{n-1}) \bmod 40960 \quad \text{for } n>0]$$

$$[\text{TDD} - F_n = \min((M_n - P_n) \bmod 40960, (P_n - M_n) \bmod 40960) \quad \text{for } n>0]$$

P_n is the predicted *SFN-SFN* value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported *SFN-SFN Drift Rate* value.

b is the last reported *SFN-SFN* value.

abs denotes the absolute value.

F_n is the deviation of the last measurement result from the predicted *SFN-SFN* value (P_n) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

M_n is the latest measurement result received after point C in the measurement model [25], measured at [TDD - the Time Slot TS_n of] the Frame SFN_n .

M_j is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

The *SFN-SFN Drift Rate* is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Common Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

Higher layer filtering:

/* partly omitted */

CHANGE REQUEST

25.433 CR 912 # rev - # Current version: 4.10.0

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:	#	Correction of the repetition name for 1.28Mcps TDD in the RADIO LINK RECONFIGURATION PREPARE TDD message	
Source:	#	RAN3	
Work item code:	#	LCRTDD-lublur	Date: # 17/11/2003
Category:	#	F	Release: # Rel-4
		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: 2 (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)

Reason for change:	#	The name of the repetition for 1.28Mcps TDD in the RADIO LINK RECONFIGURATION PREPARE TDD message for the DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD and UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR is now maxNrOfDPCHs where it should be maxNrOfDPCHLCRs in order to be aligned with all other 1.28Mcps TDD repetitions.
Summary of change:	#	RADIO LINK RECONFIGURATION PREPARE TDD: The repetition for the DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD and UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR is changed to maxNrOfDPCHLCRs in the ASN.1.
Consequences if not approved:	#	If this CR is not approved, misinterpretation of the repetition for 1.28Mcps TDD is remaining. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it aligns the name of the repetition for 1.28Mcps TDD. This CR has an impact under protocol point of view. The impact can be considered isolated because the change affects one function namely the RADIO LINK RECONFIGURATION PREPARE TDD message.

Clauses affected:	#	9.3.3
--------------------------	---	-------

Other specs affected:		Y	N		
	⌘	X		Other core specifications	⌘ 25.433 CR913 Rel-5
			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.

9.3.3 PDU Definitions

/* partly omitted */

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

```
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationPrepareTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}} OPTIONAL,
    ...
}
```

/* partly omitted */

```
UL-TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 1.28Mcps TDD only
```

```
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR          TimeSlotLCR,
    midambleShiftLCR     MidambleShiftLCR        OPTIONAL,
    tFCI-Presence        TFCI-Presence           OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR     UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
```

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR ::= SEQUENCE {
    dpch-ID              DPCH-ID,
    tdd-ChannelisationCodeLCR     TDD-ChannelisationCodeLCR        OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR-ExtIEs } } OPTIONAL,
    ...
}
```

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE optional},
    ...
}
```



```

}
...
}
UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

/* partly omitted */

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR           OPTIONAL,
    tFCI-Presence               TFCI-Presence             OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD           DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD           OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                    DPCH-ID,
    tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR           OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD   CRITICALITY   reject   EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR   PRESENCE optional},
    ...
}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

/* partly omitted */

```

CHANGE REQUEST

25.433 CR 913 # rev - # Current version: **5.6.0**

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:	#	Correction of the repetition name for 1.28Mcps TDD in the RADIO LINK RECONFIGURATION PREPARE TDD message	
Source:	#	RAN3	
Work item code:	#	LCRTDD-lublur	Date: # 17/11/2003
Category:	#	A	Release: # Rel-5
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		F (correction)	2 (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)

Reason for change:	#	The name of the repetition for 1.28Mcps TDD in the RADIO LINK RECONFIGURATION PREPARE TDD message for the DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD and UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR is now maxNrOfDPCHs where it should be maxNrOfDPCHLCRs in order to be aligned with all other 1.28Mcps TDD repetitions.
Summary of change:	#	RADIO LINK RECONFIGURATION PREPARE TDD: The repetition for the DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD and UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR is changed to maxNrOfDPCHLCRs in the ASN.1.
Consequences if not approved:	#	If this CR is not approved, misinterpretation of the repetition for 1.28Mcps TDD is remaining. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it aligns the name of the repetition for 1.28Mcps TDD. This CR has an impact under protocol point of view. The impact can be considered isolated because the change affects one function namely the RADIO LINK RECONFIGURATION PREPARE TDD message.

Clauses affected:	#	9.3.3		
		<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> </table>	Y	N
Y	N			

Other specs affected:	⌘	<input checked="" type="checkbox"/>	Other core specifications	⌘	25.433 CR912 Rel-4
		<input checked="" type="checkbox"/>	Test specifications		
		<input checked="" type="checkbox"/>	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.

9.3.3 PDU Definitions

/* partly omitted */

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

```
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationPrepareTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer  {{RadioLinkReconfigurationPrepareTDD-Extensions}}      OPTIONAL,
    ...
}
```

/* partly omitted */

```
UL-TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 1.28Mcps TDD only
```

```
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR          TimeSlotLCR,
    midambleShiftLCR     MidambleShiftLCR      OPTIONAL,
    tFCI-Presence        TFCI-Presence         OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLDCR    UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLDCR    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLDCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
```

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLDCR ::= SEQUENCE {
    dPCH-ID              DPCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR      OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLDCR-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLDCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE optional},

```

```

    ...
}

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

/* partly omitted */

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR OPTIONAL,
    tFCI-Presence              TFCI-Presence OPTIONAL,
    dl-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD          DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpch-ID                    DPCH-ID,
    tdd-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR PRESENCE optional},
    ...
}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

/* partly omitted */

```

CHANGE REQUEST

⌘ **25.433 CR 914** ⌘ rev **1** ⌘ Current version: **4.10.0** ⌘

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:	⌘ Correction of Node B synchronisation procedures		
Source:	⌘ RAN3		
Work item code:	⌘ RANimp-Nbsync	Date:	⌘ 17/11/2003
Category:	⌘ F	Release:	⌘ Rel-4
	<i>Use <u>one</u> 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 <u>one</u> of the following releases:</i> 2 (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)

Reason for change:	⌘ In the cell synchronisation procedures are some errors regarding missing ellipsis notations, ProtocollE-Single-Container, incorrect repetition.
Summary of change:	⌘ R0: 9.2.3.4L Cell Sync Burst Timing: The values are made extensible (both in tabular format and in ASN.1). 9.2.3.22a Timing Adjustment Value: The value ranges for the Initial Phase and the Steady State Phase are not correct (both in tabular format and in ASN.1, and are made extensible) with respect to 25.123. ASN.1: CELL SYNCHRONISATION RECONFIGURATION REQUEST 3.84Mcps TDD and CELL SYNCHRONISATION REPORT 3.84Mcps TDD: The construction of the ProtocollE-Single-Containers are corrected. CELL SYNCHRONISATION ADJUSTMENT FAILURE 3.84Mcps TDD: The repetition for the Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD is changed to maxCellinNodeB. R1: Missing Extension Mechanism is added in ASN.1
Consequences if not approved:	⌘ If this CR is not approved, Node B synchronisation will not work correctly. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because the Node B synchronisation is corrected.

This CR has an impact under protocol point of view.
 The impact can be considered isolated because the change affects one function namely Node B synchronisation.

Clauses affected:	⌘	9.2.3.4L, 9.2.3.22a, 9.3.3, 9.3.4										
Other specs affected:	⌘	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ 25.433 CR915 Rel-5
		Y	N									
		X										
	X											
	X											
		Test specifications										
		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.

9.2.3.4L Cell Sync Burst Timing

The *Cell Sync Burst Timing* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>>Cell Synch Burst Timing Value	M		INTEGER (0..1048575...)	
>Steady State Phase				
>>Cell Synch Burst Timing Value	M		INTEGER (0..255...)	

/* partly omitted */

9.2.3.22a Timing Adjustment Value

The *Timing Adjustment Value* IE indicates the timing correction within a Frame. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>>Timing Adjustment Value	M		INTEGER (0..1048575... 255)	
>Steady State Phase				
>>Timing Adjustment Value	M		INTEGER (0.. 1048575 255...)	

/* partly omitted */

9.3.3 PDU Definitions

/* partly omitted */

```

-- *****
--
-- CELL SYNCHRONISATION RECONFIGURATION REQUEST 3.84Mcps TDD
--
-- *****

CellSynchronisationReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{CellSynchronisationReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer  {{CellSynchronisationReconfigurationRequestTDD-Extensions}}  OPTIONAL,
    ...
}

CellSynchronisationReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSynchronisationReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY  reject      TYPE      C-ID                PRESENCE  mandatory }|
    { ID      id-TimeSlot             CRITICALITY  reject      TYPE      TimeSlot              PRESENCE  mandatory }|
    { ID      id-NCyclesPerSFNperiod  CRITICALITY  reject      TYPE      NCyclesPerSFNperiod  PRESENCE  mandatory }|
    { ID      id-NRepetitionsPerCyclePeriod CRITICALITY  reject      TYPE      NRepetitionsPerCyclePeriod PRESENCE  mandatory }|
    { ID      id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD CRITICALITY  reject      TYPE
    CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD  PRESENCE  optional }|
    { ID      id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD CRITICALITY  reject      TYPE  CellSyncBurstMeasInfo-
CellSyncReconfRqstTDDCellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD PRESENCE  optional },
    ...
}

CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD

CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBTransmissionID      CSBTransmissionID,
    syncFrameNumberToTransmit SyncFrameNumber,
    cellSyncBurstCode      CellSyncBurstCode      OPTIONAL,
    cellSyncBurstCodeShift CellSyncBurstCodeShift OPTIONAL,
    dlTransPower           DL-Power              OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

~~CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfo-CellSyncReconfRqstTDD }}~~

CellSyncBurstMeasInfo-CellSyncReconfRqstTDD ::= SEQUENCE {
cellSyncBurstMeasInfoList-CellSyncReconfRqstTDD CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
synchronisationReportType SynchronisationReportTypeIE OPTIONAL,
synchronisationReportCharacteristics SynchronisationReportCharacteristicsIE OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { SYNCd1CodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs } }
OPTIONAL,
...
}

SYNCd1CodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...
}

CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD }}

CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD
PRESENCE mandatory }
}

SynchronisationReportTypeIE ::= ProtocolIE-Single-Container {{ SynchronisationReportTypeIEs }}

SynchronisationReportTypeIEs NBAP-PROTOCOL-IES ::= {
{ ID id-SynchronisationReportType CRITICALITY reject TYPE SynchronisationReportType PRESENCE
mandatory }
}

SynchronisationReportCharacteristicsIE ::= ProtocolIE-Single-Container {{ SynchronisationReportCharacteristicsIEs }}

SynchronisationReportCharacteristicsIEs NBAP-PROTOCOL-IES ::= {
{ ID id-SynchronisationReportCharacteristics CRITICALITY reject TYPE SynchronisationReportCharacteristics PRESENCE mandatory }
}

~~CellSyncBurstMeasInfo-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {~~
~~{ ID id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD PRESENCE~~
~~mandatory }|~~
~~{ ID id-SynchronisationReportType CRITICALITY reject TYPE SynchronisationReportType PRESENCE~~
~~optional }|~~
~~{ ID id-SynchronisationReportCharacteristics CRITICALITY reject TYPE SynchronisationReportCharacteristics PRESENCE optional }|~~
~~...~~
~~}~~

CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD~~CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD~~ ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD

CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
syncFrameNrToReceive SyncFrameNumber,
syncBurstInfo CellSyncBurstInfoList-CellSyncReconfRqstTDD,
iE-Extensions ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs } }
OPTIONAL,
...
}

```
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
    ...
}
```

```
CellSyncBurstInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRqstTDD
```

```
CellSyncBurstInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBMeasurementID          CSBMeasurementID,
    cellSyncBurstCode         CellSyncBurstCode,
    cellSyncBurstCodeShift    CellSyncBurstCodeShift,
    iE-Extensions             ProtocolExtensionContainer { { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}
```

```
CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
    ...
}
```

```
/* partly omitted */
```

```
-- *****
--
-- CELL SYNCHRONISATION ADJUSTMENT FAILURE 3.84Mcps TDD
--
-- *****
```

```
CellSynchronisationAdjustmentFailureTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellSynchronisationAdjustmentFailureTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationAdjustmentFailureTDD-Extensions}}    OPTIONAL,
    ...
}
```

```
CellSynchronisationAdjustmentFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
    ...
}
```

```
CellSynchronisationAdjustmentFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CauseLevel-SyncAdjustmntFailureTDD  CRITICALITY ignore    TYPE    CauseLevel-SyncAdjustmntFailureTDD    PRESENCE mandatory }|
    { ID      id-CriticalityDiagnostics              CRITICALITY ignore    TYPE    CriticalityDiagnostics                PRESENCE optional
    },
    ...
}
```

```
CauseLevel-SyncAdjustmntFailureTDD ::= CHOICE {
    generalCause          GeneralCauseList-SyncAdjustmntFailureTDD,
    cellSpecificCause     CellSpecificCauseList-SyncAdjustmntFailureTDD,
    ...
}
```

```
GeneralCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
    cause                Cause,
```

```

        iE-Extensions          ProtocolExtensionContainer { { GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs } } OPTIONAL,
    ...
}

GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
    unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD      Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD,
    iE-Extensions              ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs } } OPTIONAL,
    ...
}

CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD ::= SEQUENCE (SIZE (1..maxNrOfRRLSCellinNodeB)) OF ProtocolIE-Single-Container {{
Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD }}

Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD      CRITICALITY      ignore      TYPE      Unsuccessful-
cell-InformationRespItem-SyncAdjustmntFailureTDD      PRESENCE      mandatory},
    ...
}

Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD ::= SEQUENCE {
    c-ID          C-ID,
    cause         Cause,
    iE-Extensions ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs }
} OPTIONAL,
    ...
}

Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

/* partly omitted */

```

-- *****
--
-- CELL SYNCHRONISATION REPORT 3.84Mcps TDD
--
-- *****

```

```

CellSynchronisationReportTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{CellSynchronisationReportTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellSynchronisationReportTDD-Extensions}} OPTIONAL,
    ...
}

```

```

}
CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CellSyncInfo-CellSyncReprtTDD      CRITICALITY ignore      TYPE      CellSyncInfo-CellSyncReprtTDD      PRESENCE mandatory  },
    ...
}

CellSyncInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ CellSyncInfoItemIE-CellSyncReprtTDD }}

CellSyncInfoItemIE-CellSyncReprtTDD ::= SEQUENCE {
    c-ID-CellSyncReprtTDD      C-ID-IE-CellSyncReprtTDD,
    syncReportType-CellSyncReprtTDD      SyncReportTypeIE-CellSyncReprtTDD      OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { CellSyncInfoItemIE-CellSyncReprtTDD-ExtIEs } }      OPTIONAL,
    ...
}

CellSyncInfoItemIE-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

C-ID-IE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ C-ID-IEs-CellSyncReprtTDD }}

C-ID-IEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID      CRITICALITY ignore      TYPE C-ID
    PRESENCE      mandatory}
}

SyncReportTypeIE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ SyncReportTypeIEs-CellSyncReprtTDD }}

SyncReportTypeIEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-SyncReportType-CellSyncReprtTDD      CRITICALITY ignore      TYPE SyncReportType-CellSyncReprtTDD      PRESENCE mandatory}
}

CellSyncInfoItemIE-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID      id C ID      CRITICALITY ignore      TYPE C ID
    PRESENCE      mandatory} |
    { ID      id SyncReportType-CellSyncReprtTDD      CRITICALITY ignore      TYPE SyncReportType-CellSyncReprtTDD      PRESENCE optional},
    ...
}

SyncReportType-CellSyncReprtTDD ::= CHOICE {
    intStdPhSyncInfo-CellSyncReprtTDD      IntStdPhCellSyncInfo-CellSyncReprtTDD,
    lateEntrantCell      NULL,
    frequencyAcquisition      NULL,
    ...
}

IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE {

```

```

    cellSyncBurstMeasuredInfo          CellSyncBurstMeasInfoList-CellSyncReprtTDD,
    iE-Extensions                      ProtocolExtensionContainer { { IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs } } OPTIONAL,
    ...
}

IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSyncBurstMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReprtTDD

CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
    sFN                                SFN,
    cellSyncBurstInfo-CellSyncReprtTDD SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
    iE-Extensions                      ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs } } OPTIONAL,
    ...
}

CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
    cellSyncBurstAvailable      CellSyncBurstAvailable-CellSyncReprtTDD,
    cellSyncBurstNotAvailable   NULL,
    ...
}

CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
    cellSyncBurstTiming         CellSyncBurstTiming,
    cellSyncBurstSIR            CellSyncBurstSIR,
    iE-Extensions              ProtocolExtensionContainer { { CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs } } OPTIONAL,
    ...
}

CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

END

```

9.3.4 Information Elements Definitions

/* partly omitted */

```

-- =====
-- C
-- =====

```

```
/* partly omitted */
```

```
CellSyncBurstTiming ::= CHOICE {  
    initialPhase      INTEGER (0..1048575, ...),  
    steadyStatePhase  INTEGER (0..255, ...)  
}
```

```
/* partly omitted */
```

```
-----  
-- T  
-- -----
```

```
/* partly omitted */
```

```
TimeSlotLCR ::= INTEGER (0..6)
```

```
TimeSlotStatus ::= ENUMERATED {  
    active,  
    not-active,  
    ...  
}
```

```
TimingAdjustmentValue ::= CHOICE {  
    initialPhase      INTEGER (0..1048575, ...255),  
    steadyStatePhase  INTEGER (0..255, ...1048575)  
}
```

```
TimingAdvanceApplied ::= ENUMERATED {  
    yes,  
    no  
}
```

```
/* partly omitted */
```

CHANGE REQUEST

⌘ **25.433 CR 915** ⌘ rev **1** ⌘ Current version: **5.6.0** ⌘

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:	⌘ Correction of Node B synchronisation procedures	
Source:	⌘ RAN3	
Work item code:	⌘ RANimp-Nbsync	Date: ⌘ 17/11/2003
Category:	⌘ A	Release: ⌘ Rel-5
	Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
	F (correction)	2 (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)

Reason for change:	⌘ In the cell synchronisation procedures are some errors regarding missing ellipsis notations, ProtocollE-Single-Container, incorrect repetition.
Summary of change:	⌘ R0: 9.2.3.4L Cell Sync Burst Timing: The values are made extensible (both in tabular format and in ASN.1). 9.2.3.22a Timing Adjustment Value: The value ranges for the Initial Phase and the Steady State Phase are not correct (both in tabular format and in ASN.1, and are made extensible) with respect to 25.123. ASN.1: CELL SYNCHRONISATION RECONFIGURATION REQUEST 3.84Mcps TDD and CELL SYNCHRONISATION REPORT 3.84Mcps TDD: The construction of the ProtocollE-Single-Containers are corrected. CELL SYNCHRONISATION ADJUSTMENT FAILURE 3.84Mcps TDD: The repetition for the Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD is changed to maxCellinNodeB. R1: Missing Extension Mechanism is added in ASN.1
Consequences if not approved:	⌘ If this CR is not approved, Node B synchronisation will not work correctly. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because the Node B synchronisation is corrected.

This CR has an impact under protocol point of view.
 The impact can be considered isolated because the change affects one function namely Node B synchronisation.

Clauses affected:	⌘	9.2.3.4L, 9.2.3.22a, 9.3.3, 9.3.4										
Other specs affected:	⌘	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ 25.433 CR914 Rel-4
		Y	N									
		X										
	X											
	X											
	X	Test specifications										
	X	O&M Specifications										
Other comments:	⌘											

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- 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.

9.2.3.4L Cell Sync Burst Timing

The *Cell Sync Burst Timing* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Phase</i>				According to mapping in [23]
> <i>Initial Phase</i>				
>>Cell Synch Burst Timing Value	M		INTEGER (0..1048575...)	
> <i>Steady State Phase</i>				
>>Cell Synch Burst Timing Value	M		INTEGER (0..255...)	

/* partly omitted */

9.2.3.22a Timing Adjustment Value

The *Timing Adjustment Value* IE indicates the timing correction within a Frame. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Phase</i>				According to mapping in [23]
> <i>Initial Phase</i>				
>>Timing Adjustment Value	M		INTEGER (0..1048575... 255)	
> <i>Steady State Phase</i>				
>>Timing Adjustment Value	M		INTEGER (0.. 1048575 255...)	

/* partly omitted */

9.3.3 PDU Definitions

/* partly omitted */

```

-- *****
--
-- CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD
--
-- *****

CellSynchronisationReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{CellSynchronisationReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer  {{CellSynchronisationReconfigurationRequestTDD-Extensions}}  OPTIONAL,
    ...
}

CellSynchronisationReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID   id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD          CRITICALITY   reject          EXTENSION          NSubCyclesPerCyclePeriod
    PRESENCE   optional      }| -- 1.28Mcps TDD only
    { ID   id-SYNCD1CodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD  CRITICALITY   reject          EXTENSION          NSubCyclesPerCyclePeriod
    SYNCD1CodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD  PRESENCE   optional      }| -- 1.28Mcps TDD only
    { ID   id-SYNCD1CodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD  CRITICALITY   reject          EXTENSION          NSubCyclesPerCyclePeriod
    SYNCD1CodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD PRESENCE   optional }| --
    1.28Mcps TDD only
    ...
}

CellSynchronisationReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID   id-C-ID          CRITICALITY   reject          TYPE   C-ID          PRESENCE   mandatory
    }|
    { ID   id-TimeSlot      CRITICALITY   reject          TYPE   TimeSlot      PRESENCE   mandatory }|
    -- 1.28Mcps TDD - There is no Time Slot indication needed, the CRNC should indicate Time Slot 0 and the Node B shall ignore it
    { ID   id-NCyclesPerSFNperiod  CRITICALITY   reject          TYPE   NCyclesPerSFNperiod  PRESENCE   mandatory }|
    { ID   id-NRepetitionsPerCyclePeriod  CRITICALITY   reject          TYPE   NRepetitionsPerCyclePeriod  PRESENCE   mandatory }|
    { ID   id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD  CRITICALITY   reject          TYPE
    CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD  PRESENCE   optional }| -- 3.84Mcps TDD only
    { ID   id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD  CRITICALITY   reject          TYPE   CellSyncBurstMeasInfo-
    CellSyncReconfRqstTDD CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD PRESENCE   optional }, -- 3.84Mcps TDD only
    ...
}

CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-
CellSyncReconfRqstTDD

CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBTransmissionID      CSBTransmissionID,
    syncFrameNumberToTransmit  SyncFrameNumber,
    cellSyncBurstCode       CellSyncBurstCode          OPTIONAL,
    cellSyncBurstCodeShift   CellSyncBurstCodeShift     OPTIONAL,
    dlTransPower             DL-Power          OPTIONAL,
}

```

```

    iE-Extensions
    OPTIONAL,
    ...
}

```

```

CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

~~CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfo-CellSyncReconfRqstTDD }}~~

```

CellSyncBurstMeasInfo-CellSyncReconfRqstTDD ::= SEQUENCE {
    cellSyncBurstMeasInfoList-CellSyncReconfRqstTDD    CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
    synchronisationReportType                          SynchronisationReportTypeIE          OPTIONAL,
    synchronisationReportCharacteristics                SynchronisationReportCharacteristicsIE OPTIONAL,
    iE-Extensions                                     ProtocolExtensionContainer { { SYNCd1CodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}

```

```

SYNCd1CodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD }}

```

```

CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD    CRITICALITY reject    TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD
    PRESENCE mandatory }
}

```

```

SynchronisationReportTypeIE ::= ProtocolIE-Single-Container {{ SynchronisationReportTypeIEs }}

```

```

SynchronisationReportTypeIEs NBAP-PROTOCOL-IES ::= {
    { ID id-SynchronisationReportType                          CRITICALITY reject    TYPE SynchronisationReportType          PRESENCE
    mandatory }
}

```

```

SynchronisationReportCharacteristicsIE ::= ProtocolIE-Single-Container {{ SynchronisationReportCharacteristicsIEs }}

```

```

SynchronisationReportCharacteristicsIEs NBAP-PROTOCOL-IES ::= {
    { ID id-SynchronisationReportCharacteristics                CRITICALITY reject    TYPE SynchronisationReportCharacteristics    PRESENCE mandatory }
}

```

```

CellSyncBurstMeasInfo-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD    CRITICALITY reject    TYPE CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD    PRESENCE
    mandatory }},
    { ID id-SynchronisationReportType                          CRITICALITY reject    TYPE SynchronisationReportType          PRESENCE
    optional }},
    { ID id-SynchronisationReportCharacteristics                CRITICALITY reject    TYPE SynchronisationReportCharacteristics    PRESENCE optional },
    ...
}


```

~~CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD~~ ~~CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD~~ ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD

```
CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive          SyncFrameNumber,
    syncBurstInfo                 CellSyncBurstInfoList-CellSyncReconfRqstTDD,
    iE-Extensions                 ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}
```

~~CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs~~ NBAP-PROTOCOL-EXTENSION ::= {

~~...~~
}

CellSyncBurstInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRqstTDD

```
CellSyncBurstInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBMeasurementID             CSBMeasurementID,
    cellSyncBurstCode            CellSyncBurstCode,
    cellSyncBurstCodeShift      CellSyncBurstCodeShift,
    iE-Extensions                ProtocolExtensionContainer { { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}
```

CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

~~...~~
}

SYNCD1CodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSyncFramesLCR)) OF SYNCD1CodeIdTransReconfItemLCR-CellSyncReconfRqstTDD

```
SYNCD1CodeIdTransReconfItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBTransmissionID           CSBTransmissionID,
    syncFrameNumberforTransmit  SyncFrameNumber,
    uARFCN                       UARFCN,
    SYNCD1CodeId                 SYNCD1CodeId OPTIONAL,
    dwPCH-Power                  DwPCH-Power OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { SYNCD1CodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}
```

SYNCD1CodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

~~...~~
}

~~SYNCD1CodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD ::= ProtocolIE Single Container {{ SYNCD1CodeIdMeasInfoLCR-CellSyncReconfRqstTDD }}~~

```
SYNCD1CodeIdMeasInfoLCR-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-SYNCD1CodeIdMeasInfoList-CellSyncReconfRqstTDD CRITICALITY reject TYPE SYNCD1CodeIdMeasInfoList-CellSyncReconfRqstTDD PRESENCE mandatory }|
```

```

    { ID id-SynchronisationReportType          CRITICALITY reject TYPE SynchronisationReportType          PRESENCE
      optional }|
    { ID id-SynchronisationReportCharacteristics CRITICALITY reject TYPE SynchronisationReportCharacteristics PRESENCE optional },
    ...
}

SYNCD1CodeIdMeasInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfSyncDLCodesLCR)) OF SYNCD1CodeIdMeasInfoItem-CellSyncReconfRqstTDD

SYNCD1CodeIdMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive          SyncFrameNumber,
    sYNCD1CodeIdInfoLCR          SYNCD1CodeIdInfoListLCR-CellSyncReconfRqstTDD,
    iE-Extensions                ProtocolExtensionContainer { { SYNCD1CodeIdMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

SYNCD1CodeIdMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SYNCD1CodeIdInfoListLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCD1CodeIdInfoItemLCR-CellSyncReconfRqstTDD

SYNCD1CodeIdInfoItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBMeasurementID             CSBMeasurementID,
    sYNCD1CodeId                 SYNCD1CodeId,
    uARFCN                       UARFCN,
    propagationDelayCompensation TimingAdjustmentValue OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { SYNCD1CodeIdInfoLCR-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

SYNCD1CodeIdInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

/* partly omitted */

-- *****
--
-- CELL SYNCHRONISATION ADJUSTMENT FAILURE 3.84Mcps TDD
--
-- *****

CellSynchronisationAdjustmentFailureTDD ::= SEQUENCE {
    protocolIEs                 ProtocolIE-Container  {{CellSynchronisationAdjustmentFailureTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{CellSynchronisationAdjustmentFailureTDD-Extensions}} OPTIONAL,
    ...
}

CellSynchronisationAdjustmentFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

CellSynchronisationAdjustmentFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-CauseLevel-SyncAdjustmntFailureTDD  CRITICALITY ignore      TYPE      CauseLevel-SyncAdjustmntFailureTDD  PRESENCE mandatory } |
  { ID      id-CriticalityDiagnostics              CRITICALITY ignore      TYPE      CriticalityDiagnostics                PRESENCE optional }
  },
  ...
}

CauseLevel-SyncAdjustmntFailureTDD ::= CHOICE {
  generalCause          GeneralCauseList-SyncAdjustmntFailureTDD,
  cellSpecificCause     CellSpecificCauseList-SyncAdjustmntFailureTDD,
  ...
}

GeneralCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
  cause                 Cause,
  iE-Extensions         ProtocolExtensionContainer { { GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs } } OPTIONAL,
  ...
}

GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
  unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD  Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD,
  iE-Extensions           ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs } } OPTIONAL,
  ...
}

CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD ::= SEQUENCE (SIZE (1..maxNrOfRRLsCellInNodeB)) OF ProtocolIE-Single-Container {{
  Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD }}

Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD NBAP-PROTOCOL-IES ::= {
  { ID      id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD  CRITICALITY ignore      TYPE      Unsuccessful-
  cell-InformationRespItem-SyncAdjustmntFailureTDD  PRESENCE mandatory},
  ...
}

Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD ::= SEQUENCE {
  c-ID          C-ID,
  cause         Cause,
  iE-Extensions ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs } }
  } OPTIONAL,
  ...
}

Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

/* partly omitted */

-- *****
--
-- CELL SYNCHRONISATION REPORT TDD
--
-- *****

CellSynchronisationReportTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellSynchronisationReportTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationReportTDD-Extensions}}    OPTIONAL,
    ...
}

CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CellSyncInfo-CellSyncReprtTDD    CRITICALITY ignore    TYPE    CellSyncInfo-CellSyncReprtTDD    PRESENCE mandatory    },
    ...
}

CellSyncInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ CellSyncInfoItemIE-CellSyncReprtTDD }}

CellSyncInfoItemIE-CellSyncReprtTDD ::= SEQUENCE {
    c-ID-CellSyncReprtTDD          C-ID-IE-CellSyncReprtTDD,
    syncReportType-CellSyncReprtTDD    SyncReportTypeIE-CellSyncReprtTDD    OPTIONAL,
    ...
}

C-ID-IE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ C-ID-IEs-CellSyncReprtTDD }}

C-ID-IEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID    id-C-ID
    PRESENCE    mandatory}    CRITICALITY ignore    TYPE C-ID
}

SyncReportTypeIE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ SyncReportTypeIEs-CellSyncReprtTDD }}

SyncReportTypeIEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID    id-SyncReportType-CellSyncReprtTDD    CRITICALITY ignore    TYPE SyncReportType-CellSyncReprtTDD    PRESENCE mandatory}
}

CellSyncInfoItemIE-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID    id-C-ID
    PRESENCE    mandatory}    CRITICALITY ignore    TYPE C-ID
    { ID    id-SyncReportType-CellSyncReprtTDD    CRITICALITY ignore    TYPE SyncReportType-CellSyncReprtTDD    PRESENCE optional},

```



```

+
SyncReportType-CellSyncReprtTDD ::= CHOICE {
    intStdPhSyncInfo-CellSyncReprtTDD      IntStdPhCellSyncInfo-CellSyncReprtTDD,
    lateEntrantCell                        NULL,
    frequencyAcquisition                   NULL,
    ...
}

IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE {
    cellSyncBurstMeasuredInfo              CellSyncBurstMeasInfoList-CellSyncReprtTDD,
    iE-Extensions                          ProtocolExtensionContainer { { IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs} } OPTIONAL,
    ...
}

IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-AccumulatedClockupdate-CellSyncReprtTDD      CRITICALITY ignore EXTENSION      TimingAdjustmentValue      PRESENCE optional } |
    { ID id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD CRITICALITY ignore EXTENSION      SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD PRESENCE
optional }, -- Mandatory for 1.28Mcps TDD only
    ...
}

CellSyncBurstMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReprtTDD --
Mandatory for 3.84Mcps TDD only

CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
    sFN                                     SFN,
    cellSyncBurstInfo-CellSyncReprtTDD     SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
    iE-Extensions                          ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs} } OPTIONAL,
    ...
}

CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
    cellSyncBurstAvailable                  CellSyncBurstAvailable-CellSyncReprtTDD,
    cellSyncBurstNotAvailable              NULL,
    ...
}

CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
    cellSyncBurstTiming                    CellSyncBurstTiming,
    cellSyncBurstSIR                        CellSyncBurstSIR,
    iE-Extensions                          ProtocolExtensionContainer { { CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs} } OPTIONAL,
    ...
}

CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD
-- Mandatory for 1.28Mcps TDD only
```

```
SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
    sFN                               SFN,
    syncDLCodeIdInfo-CellSyncReprtTDD SyncDLCodeIdInfo-CellSyncReprtTDD,
    iE-Extensions                     ProtocolExtensionContainer { { SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
SyncDLCodeIdInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptionsperSyncFrameLCR)) OF SyncDLCodeIdItem-CellSyncReprtTDD
```

```
SyncDLCodeIdItem-CellSyncReprtTDD ::= CHOICE {
    syncDLCodeIdAvailable             SyncDLCodeIdAvailable-CellSyncReprtTDD,
    syncDLCodeIDNotAvailable          NULL,
    ...
}
```

```
SyncDLCodeIdAvailable-CellSyncReprtTDD ::= SEQUENCE {
    syncDLCodeIdTiming               CellSyncBurstTiming,
    syncDLCodeIdSIR                  CellSyncBurstSIR,
    iE-Extensions                    ProtocolExtensionContainer { { SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
/* partly omitted */
```

9.3.4 Information Elements Definitions

```
/* partly omitted */
```

```
-- =====
-- c
-- =====
```

```
/* partly omitted */
```

```
CellSyncBurstTiming ::= CHOICE {
    initialPhase          INTEGER (0..1048575, ...),
    steadyStatePhase      INTEGER (0..255, ...)
}
```

}

/* partly omitted */

```
-- =====  
-- T  
-- =====
```

/* partly omitted */

TimeSlotLCR ::= INTEGER (0..6)

TimeSlotStatus ::= ENUMERATED {
 active,
 not-active,
 ...
}

TimingAdjustmentValue ::= CHOICE {
 initialPhase INTEGER (0..1048575,...~~255~~),
 steadyStatePhase INTEGER (0..255,...~~1048575~~)
}

TimingAdvanceApplied ::= ENUMERATED {
 yes,
 no
}

-- For 1.28Mcps TDD TimingAdvanceApplied = No

/* partly omitted */

CR-Form-v7

CHANGE REQUEST

25.433 CR 916 # rev - # Current version: **4.10.0**

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:	# Correction of the ProtocolIE-Single-Containers in ASN.1 for TDD		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 17/11/2003
Category:	# F	Release:	# Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (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)

Reason for change:	# There are some misalignments between the tabular format and ASN.1 regarding the ProtocolIE-Single-Containers. Tdoc R3-031450 clarifies the usage of ProtocolIE-Single-Containers.
Summary of change:	# In the COMMON TRANSPORT CHANNEL SETUP REQUEST message the Secondary CCPCH IEgroup and PICH Parameters IE group and PRACH IE groups and in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD] message the PDSCH Sets To Modify IEgroup are corrected in both tabular format (by introducing a CHOICE distinguishing HCR and TDD) and ASN.1.
Consequences if not approved:	# If this CR is not approved, the ProtocolIE-Single-Containers have not the behaviour as expected from the tabular format. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because the usage of ProtocolIE-Single-Containers for TDD is clarified. This CR has an impact under protocol point of view. The impact can be considered isolated because the change affects one function namely TDD.

Clauses affected:	# 9.1.3.2, 9.1.62, 9.3.3								
Other specs affected:	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X	Other core specifications	# 25.433 CR917 Rel-5
Y	N								
X									
	X								
		Test specifications							

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.

9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>Common Physical Channel To Be Configured</i>	M				YES	ignore
>Secondary CCPCHs					–	
>>SCCPCH CCTrCH ID	M		CCTrCH ID 9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>>TFCS	M		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>>TFCI Coding	M		9.2.3.22		–	
>>Puncture Limit	M		9.2.1.50		–	
>>CHOICE <i>HCR or LCR</i>	<u>M</u>			See note 1 below	<u>–</u>	
>>>3.84Mcps TDD					<u>–</u>	
>>>>Secondary CCPCH		01..<maxn of SCCPC Hs>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>>>>Time Slot	M		9.2.3.23		–	
>>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>>>Repetition Period	M		9.2.3.16		–	
>>>>Repetition Length	M		9.2.3.15		–	
>>>>SCCPCH Power	M		DL Power 9.2.1.21		–	
>>>1.28Mcps TDD					<u>–</u>	
>>>>Secondary CCPCH LCR		<u>1..<maxno of SCCPC HsLCR></u>			<u>GLOBAL</u>	<u>reject</u>
>>>>Common	<u>M</u>		<u>9.2.1.13</u>		<u>–</u>	

Physical Channel ID						
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		=	
>>>>Time Slot LCR	M		9.2.3.24A		=	
>>>>Midamble Shift LCR	M		9.2.3.7A		=	
>>>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>>>Repetition Period	M		9.2.3.16		=	
>>>>Repetition Length	M		9.2.3.15		=	
>>>>SCCPCH Power	M		DL Power 9.2.1.21		=	
>>>> SCCPCH Time Slot Format LCR	M		TDD DL DPCH Time Slot Format LCR 9.2.3.19D		=	
>>FACH Parameters		<i>0..<maxno ofFACHs></i>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>FACH CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>Max FACH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>PCH Parameters		<i>0..1</i>			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>PCH CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>CHOICE HCR or LCR	M			See note 1 below	=	
>>>>3.84Mcps TDD					=	
>>>>PICH Parameters		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>>Time Slot	M		9.2.3.23		-	

>>>>>Midamble Shift And Burst Type	M		9.2.3.7		-	
>>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>>Repetition Period	M		9.2.3.16		-	
>>>>>Repetition Length	M		9.2.3.15		-	
>>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>>PICH Power	M		9.2.1.49A		-	
>>>>1.28Mcps TDD					=	
>>>>>PICH Parameters LCR		1			YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		=	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		=	
>>>>>Time Slot LCR	M		9.2.3.24A		=	
>>>>>Midamble Shift LCR	M		9.2.3.7A		=	
>>>>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>>>>Repetition Period	M		9.2.3.16		=	
>>>>>Repetition Length	M		9.2.3.15		=	
>>>>>Paging Indicator Length	M		9.2.3.8		=	
>>>>>PICH Power	M		9.2.1.49A		=	
>>>>>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		=	
>>>>PCH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>>>>PICH Parameters LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>>>TDD Physical	M		9.2.3.20		-	

Channel Offset						
>>>>Repetition Period	M		9.2.3.16		-	
>>>>Repetition Length	M		9.2.3.15		-	
>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>PICH Power	M		9.2.1.49A		-	
>>>>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		YES	reject
>>Secondary CCPCH LCR		0..<maxno ofSCGPG HsLCR>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>Repetition Period	M		9.2.3.16		-	
>>>Repetition Length	M		9.2.3.15		-	
>>>SCCPCH Power	M		DL Power 9.2.1.24		-	
>>> SCCPCH Time Slot Format LCR	M		TDD-DL DPCH Time Slot Format LCR 9.2.3.19D		-	
>PRACH					-	
>>CHOICE HCR or LCR	M			See note 1 below	=	
>>>3.84Mcps TDD					=	
>>>>PRACH	M	0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TFCS	M		9.2.1.58		-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>>Max PRACH Midamble Shifts	M		9.2.3.6		-	
>>>>>PRACH Midamble	M		9.2.3.14		-	
>>>>>RACH		1			YES	reject
>>>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>>>Transport	M		9.2.1.59	For the UL	-	

Format Set						
>>>1.28Mcps TDD						
>>>>PRACH LCR		$\theta 1..<maxnoofPRACH LCRs>$		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>>TFCS	M		9.2.1.58		–	
>>>>>Time Slot LCR	M		9.2.3.24A		–	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
>>>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>>>RACH		1			YES	reject
>>>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>>>Transport Format Set	M		9.2.1.59	For the UL	–	
>>FPACH		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>Max FPACH Power	M		9.2.3.5E		–	

Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.

Range Bound	Explanation
<i>maxnoofSCCPCHs</i>	Maximum number of Secondary CCPCHs per CCTrCH for 3.84Mcps TDD
<i>maxnoofSCCPCHsLCR</i>	Maximum number of Secondary CCPCHs per CCTrCH for 1.28Mcps TDD
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs that can be defined in a cell
<i>maxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH
<i>maxnoofPRACHLCRs</i>	Maximum number of PRACHs LCR that can be defined on a RACH for 1.28Mcps TDD

/* partly omitted */

9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
SFN	O		9.2.1.53A		YES	reject
PDSCH Sets To Add		<i>0..<maxno of PDSCH Sets></i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
>PDSCH To Add Information		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>DL Timeslot Information		<i>1..<maxno of DLts></i>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>DL Code Information		<i>1..<maxno of PDSCHs ></i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>PDSCH To Add Information LCR		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>DL Timeslot Information LCR		<i>1..<maxno of DLtsLCR ></i>			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>DL Code Information LCR		<i>1..<maxno of PDSCHs ></i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	

PDSCH Sets To Modify		<i>0..<maxno of PDSCHSets></i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	
>CHOICE HCR or LCR	M			See note 1 below	=	
>>3.84Mcps TDD					=	
>>>PDSCH To Modify Information		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>DL Timeslot Information		<i>0..<maxno ofDLts></i>			-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>DL Code Information		<i>0..<maxno ofPDSCHs ></i>			-	
>>>>>>PDSCH ID	M		9.2.3.10		-	
>>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>1.28Mcps TDD					=	
>>>PDSCH to Modify Information LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>DL Timeslot Information LCR		<i>0..<maxno ofDLtsLCR ></i>			-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>DL Code Information LCR		<i>0..<maxno ofPDSCHs ></i>			-	
>>>>>>PDSCH ID	M		9.2.3.10		-	
>>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	

PDSCH Sets To Delete		<i>0..<maxno of PDSCHSets></i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
PUSCH Sets To Add		<i>0..<maxno of PUSCHSets></i>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
>PUSCH To Add Information		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>UL Timeslot Information		<i>1..<maxno of ULts></i>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>UL Code Information		<i>1..<maxno of PUSCHs ></i>			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>PUSCH To Add Information LCR		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>UL Timeslot Information LCR		<i>1..<maxno of ULtsLCR ></i>			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>UL Code Information LCR		<i>1..<maxno of PUSCHs ></i>			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
PUSCH Sets To Modify		<i>0..<maxno of PUSCHSets></i>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	

>CHOICE HCR or LCR	M			See note 1 below	=	
>>3.84Mcps TDD					=	
>>>PUSCH To Modify Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>UL Timeslot Information		0..<maxno ofULts>			-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>UL Code Information		0..<maxno ofPUSCHs >			-	
>>>>>>PUSCH ID	M		9.2.3.12		-	
>>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>1.28Mcps TDD					=	
>>>PUSCH To Modify Information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>>UL Timeslot Information LCR		0..<maxno ofULtsLCR >		Applicable to 1.28Mcps TDD only	-	
>>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>>UL Code Information LCR		0..<maxno ofPUSCHs >			-	
>>>>>>>PUSCH ID	M		9.2.3.12		-	
>>>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
PUSCH Sets To Delete		0..<maxno ofPUSCH Sets>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	

Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.

Range Bound	Explanation
<i>maxnoofPDSCHSets</i>	Maximum number of PDSCH Sets in a cell
<i>maxnoofPDSCHs</i>	Maximum number of PDSCHs in a cell
<i>maxnoofPUSCHSets</i>	Maximum number of PUSCH Sets in a cell
<i>maxnoofPUSCHs</i>	Maximum number of PUSCHs in a cell
<i>maxnoofDLts</i>	Maximum number of Downlink time slots in a cell for 3.84Mcps TDD
<i>maxnoofDLtsLCR</i>	Maximum number of Downlink time slots in a cell for 1.28Mcps TDD
<i>maxnoofULts</i>	Maximum number of Uplink time slots in a cell for 3.84Mcps TDD
<i>maxnoofULtsLCR</i>	Maximum number of Uplink time slots in a cell for 1.28Mcps TDD

9.3.3 PDU Definitions

/* partly omitted */

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
--
-- *****

CommonTransportChannelSetupRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{CommonTransportChannelSetupRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer  {{CommonTransportChannelSetupRequestTDD-Extensions}}    OPTIONAL,
    ...
}

CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY reject      TYPE          C-ID
    PRESENCE mandatory  }|
    { ID id-ConfigurationGenerationID CRITICALITY reject      TYPE          ConfigurationGenerationID
    PRESENCE mandatory  }|
    { ID id-CommonPhysicalChannelType-CTCH-SetupRqstTDD CRITICALITY ignore    TYPE          CommonPhysicalChannelType-CTCH-
SetupRqstTDD          PRESENCE mandatory  },
    ...
}

CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstTDD,
    pRACH-parameters                PRACH-CTCH-SetupRqstTDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstTDD ::= SEQUENCE {
    sCCPCH-CCTrCH-ID                CCTrCH-ID,
    tFCS                             TFCS,
    tFCI-Coding                      TFCI-Coding,
    punctureLimit                    PunctureLimit,
    secondaryCCPCH-parameterList     Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    fACH-ParametersList              FACH-ParametersList-CTCH-SetupRqstTDD    OPTIONAL,
    pCH-Parameters                   PCH-Parameters-CTCH-SetupRqstTDD    OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer  {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}    OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject      EXTENSION Secondary-CCPCH-LCR-
parameterList-CTCH-SetupRqstTDD PRESENCE optional  }, Mandatory for 1.28Meps-TDD, Not Applicable to 3.84Meps-TDD

```



```

    ...
}

Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD }}

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD PRESENCE
mandatory optional } | Mandatory for 3.84Meps TDD, Not Applicable to 1.28Meps TDD
  { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD
  PRESENCE optional }
}

Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  timeslot TimeSlot,
  midambleShiftandBurstType MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  s-CCPCH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}

FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstTDD PRESENCE mandatory }
}

FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD

FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  fACH-CCTrCH-ID CCTrCH-ID,
  dl-TransportFormatSet TransportFormatSet,
  toAWS ToAWS,
  toAWE ToAWE,
  iE-Extensions ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional },

```

```

-- Applicable to 1.28Mcps TDD only
...
}

PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}

PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersItem-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE PCH-ParametersItem-CTCH-SetupRqstTDD  PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  pCH-CCTrCH-ID                    CCTrCH-ID,
  dl-TransportFormatSet             TransportFormatSet,
  toAWS                             ToAWS,
  toAWE                             ToAWE,
  pICH-Parameters                   PICH-Parameters-CTCH-SetupRqstTDD,
  iE-Extensions                     ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }  OPTIONAL,
  ...
}

PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PCH-Power-LCR-CTCH-SetupRqstTDD          CRITICALITY reject  EXTENSION DL-Power  PRESENCE optional }+,
  { ID id-PICH-LCR-Parameters-CTCH-SetupRqstTDD  CRITICALITY reject  EXTENSION PICH-LCR-Parameters-CTCH-SetupRqstTDD  PRESENCE optional }, Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  ...
}

PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}

PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-ParametersItem-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE PICH-ParametersItem-CTCH-SetupRqstTDD  PRESENCE optional }+,
  { ID id-PICH-LCR-Parameters-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE PICH-LCR-Parameters-CTCH-SetupRqstTDD  PRESENCE optional }
  Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
}

PICH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  tdd-ChannelisationCode           TDD-ChannelisationCode,
  timeSlot                         TimeSlot,
  midambleShiftAndBurstType        MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset         TDD-PhysicalChannelOffset,
  repetitionPeriod                 RepetitionPeriod,
  repetitionLength                 RepetitionLength,
  pagingIndicatorLength            PagingIndicatorLength,
  pICH-Power                       PICH-Power,
  iE-Extensions                    ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }  OPTIONAL,
  ...
}

PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

PICH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    timeSlotLCR                      TimeSlotLCR,
    midambleShiftLCR                 MidambleShiftLCR,
    tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
    repetitionPeriod                  RepetitionPeriod,
    repetitionLength                  RepetitionLength,
    pagingIndicatorLength             PagingIndicatorLength,
    pICH-Power                        PICH-Power,
    second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions                     ProtocolExtensionContainer { { PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD

```

```

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    timeslotLCR                      TimeSlotLCR,
    midambleShiftLCR                 MidambleShiftLCR,
    tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
    repetitionPeriod                  RepetitionPeriod,
    repetitionLength                  RepetitionLength,
    s-CCPCH-Power                    DL-Power,
    s-CCPCH-TimeSlotFormat-LCR       TDD-DL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions                     ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
    pRACH-Parameters-CTCH-SetupRqstTDD PRACH-Parameters-CTCH-SetupRqstTDD,
    iE-Extensions                       ProtocolExtensionContainer { { PRACH-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
 { ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional } } Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { ID id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional }, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
}

```

```

}
...
PRACH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRqstTDD }}

PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional } |
  { ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-
  SetupRqstTDD PRESENCE optional }
} Mandatory for 3.84Meps TDD, Not Applicable to 1.28Meps TDD

PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tFCS TFCS,
  timeslot TimeSlot,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  maxPRACH-MidambleShifts MaxPRACH-MidambleShifts,
  pRACH-Midamble PRACH-Midamble,
  rACH RACH-Parameter-CTCH-SetupRqstTDD,
  iE-Extensions ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}

RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-ParameterItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE RACH-ParameterItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  uL-TransportFormatSet TransportFormatSet,
  iE-Extensions ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tFCS TFCS,
  timeslotLCR TimeSlotLCR,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  midambleShiftLCR MidambleShiftLCR,
  rACH RACH-Parameter-CTCH-SetupRqstTDD,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FPACH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR     TDD-ChannelisationCodeLCR,
    timeslotLCR                   TimeSlotLCR,
    midambleShiftLCR              MidambleShiftLCR,
    fPACH-Power                   FPACH-Power,
    iE-Extensions                 ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
/* partly omitted */

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

PhysicalSharedChannelReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container {{PhysicalSharedChannelReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestTDD-Extensions}} OPTIONAL,
    ...
}

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID          CRITICALITY  reject          TYPE      C-ID
    PRESENCE  mandatory      } |
    { ID      id-SFN          CRITICALITY  reject          TYPE      SFN
    PRESENCE  optional      } |
    { ID      id-PDSCHSets-AddList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PDSCHSets-AddList-PSCH-ReconfRqst  PRESENCE
    optional  } |
    { ID      id-PDSCHSets-ModifyList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PDSCHSets-ModifyList-PSCH-ReconfRqst  PRESENCE
    optional  } |
    { ID      id-PDSCHSets-DeleteList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PDSCHSets-DeleteList-PSCH-ReconfRqst  PRESENCE
    optional  } |
    { ID      id-PUSCHSets-AddList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PUSCHSets-AddList-PSCH-ReconfRqst  PRESENCE
    optional  } |
    { ID      id-PUSCHSets-ModifyList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PUSCHSets-ModifyList-PSCH-ReconfRqst  PRESENCE
    optional  } |
    { ID      id-PUSCHSets-DeleteList-PSCH-ReconfRqst  CRITICALITY  reject          TYPE      PUSCHSets-DeleteList-PSCH-ReconfRqst  PRESENCE
    optional  },

```

```

    ...
}

PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst

PDSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID PDSCHSet-ID,
    pDSCH-InformationList PDSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 1.28Mcps TDD only
    ...
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD

PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-AddItem-PSCH-ReconfRqst PRESENCE
    mandatory}
}

PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    dl-Timeslot-InformationAddList-PSCH-ReconfRqst DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence TFCI-Presence,
    dl-Code-InformationAddList-PSCH-ReconfRqst DL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

```

```

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions           ProtocolExtensionContainer { { PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR              TimeSlotLCR,
    midambleShiftLCR        MidambleShiftLCR,
    tFCI-Presence            TFCI-Presence,
    dL-Code-InformationAddList-LCR-PSCH-ReconfRqst DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions           ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID                PDSCHSet-ID,
    pDSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst,
    iE-Extensions              ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
    PRESENCE optional}, Mandatory for 1.28Meps TDD, Not Applicable to 3.84Meps TDD
    ...
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE optional} Mandatory for 3.84Meps TDD, Not Applicable to 1.28Meps TDD
    {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
    PRESENCE optional}
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                RepetitionPeriod                OPTIONAL,
    repetitionLength                RepetitionLength                OPTIONAL,
    tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset        OPTIONAL,
    dl-Timeslot-InformationModifyList-PSCH-ReconfRqst                DL-Timeslot-InformationModifyList-PSCH-ReconfRqst                OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                        TimeSlot,
    midambleShiftAndBurstType        MidambleShiftAndBurstType        OPTIONAL,
    tFCI-Presence                    TFCI-Presence        OPTIONAL,
    dl-Code-InformationModifyList-PSCH-ReconfRqst                DL-Code-InformationModifyList-PSCH-ReconfRqst                OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

```



```

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID                PDSCH-ID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}

DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod          OPTIONAL,
  repetitionLength          RepetitionLength          OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer { { PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}

PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR              TimeSlotLCR,
  midambleShiftLCR         MidambleShiftLCR OPTIONAL,
  tFCI-Presence            TFCI-Presence OPTIONAL,
  dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID                PDSCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,

```

```

    iE-Extensions                ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID                PDSCHSet-ID,
    iE-Extensions                ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList        PUSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    iE-Extensions                ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-AddInformation-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-AddItem-PSCH-ReconfRqst PRESENCE
    mandatory}
}

PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod            RepetitionPeriod,
    repetitionLength            RepetitionLength,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions                ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType  MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-PSCH-ReconfRqst  UL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst

UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst  UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR          MidambleShiftLCR,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-LCR-PSCH-ReconfRqst  UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

```

```

}

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions           ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList      PUSCH-Information-ModifyList-PSCH-ReconfRqst OPTIONAL,
    Applicable to 3.84Meps TDD only
    iE-Extensions           ProtocolExtensionContainer { { PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-
    PRESENCE optional}, Applicable to 1.28Meps TDD only

    ...
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE mandatoryoptional}|
    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
    PRESENCE optional}
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod                OPTIONAL,
    repetitionLength          RepetitionLength                OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset      OPTIONAL,
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst        UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

```

```

PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence           TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod OPTIONAL,
    repetitionLength        RepetitionLength OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR            TimeSlotLCR,
    midambleShiftLCR      MidambleShiftLCR OPTIONAL,
    tFCI-Presence          TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,

```

```

    iE-Extensions
    OPTIONAL,
    ...
}

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID
    PUSCH-ID,
    tdd-ChannelisationCodeLCR
    TDD-ChannelisationCodeLCR,
    iE-Extensions
    ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst

PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID
    PUSCHSet-ID,
    iE-Extensions
    ProtocolExtensionContainer { {PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

/* partly omitted */

```

CR-Form-v7

CHANGE REQUEST

25.433 CR 917 # rev - # Current version: 5.6.0

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:	# Correction of the ProtocolIE-Single-Containers in ASN.1 for TDD		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 17/11/2003
Category:	# A	Release:	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (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)

Reason for change:	# There are some misalignments between the tabular format and ASN.1 regarding the ProtocolIE-Single-Containers. Tdoc R3-031450 clarifies the usage of ProtocolIE-Single-Containers.
Summary of change:	# In the COMMON TRANSPORT CHANNEL SETUP REQUEST message the Secondary CCPCH IEgroup and PICH Parameters IE group and PRACH IE groups and in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD] message the PDSCH Sets To Modify IEgroup are corrected in both tabular format (by introducing a CHOICE distinguishing HCR and TDD) and ASN.1.
Consequences if not approved:	# If this CR is not approved, the ProtocolIE-Single-Containers have not the behaviour as expected from the tabular format. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because the usage of ProtocolIE-Single-Containers for TDD is clarified. This CR has an impact under protocol point of view. The impact can be considered isolated because the change affects one function namely TDD.

Clauses affected:	# 9.1.3.2, 9.1.62, 9.3.3								
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;">X</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X	Other core specifications	# 25.433 CR916 Rel-4
Y	N								
X									
	X								
		Test specifications							

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.

9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>Common Physical Channel To Be Configured</i>	M				YES	ignore
>Secondary CCPCHs					–	
>>SCCPCH CCTrCH ID	M		CCTrCH ID 9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>>TFCS	M		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>>TFCI Coding	M		9.2.3.22		–	
>>Puncture Limit	M		9.2.1.50		–	
>>CHOICE <i>HCR or LCR</i>	<u>M</u>			See note 1 below	<u>–</u>	
>>>3.84Mcps TDD					<u>–</u>	
>>>>Secondary CCPCH		01..<maxn of SCCPC Hs>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
>>>>Time Slot	M		9.2.3.23		–	
>>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>>>Repetition Period	M		9.2.3.16		–	
>>>>Repetition Length	M		9.2.3.15		–	
>>>>SCCPCH Power	M		DL Power 9.2.1.21		–	
>>>1.28Mcps TDD					<u>–</u>	
>>>>Secondary CCPCH LCR		<u>1..<maxno of SCCPC HsLCR></u>			<u>GLOBAL</u>	<u>reject</u>
>>>>Common	<u>M</u>		<u>9.2.1.13</u>		<u>–</u>	

Physical Channel ID						
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		=	
>>>>Time Slot LCR	M		9.2.3.24A		=	
>>>>Midamble Shift LCR	M		9.2.3.7A		=	
>>>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>>>Repetition Period	M		9.2.3.16		=	
>>>>Repetition Length	M		9.2.3.15		=	
>>>>SCCPCH Power	M		DL Power 9.2.1.21		=	
>>>> SCCPCH Time Slot Format LCR	M		TDD DL DPCH Time Slot Format LCR 9.2.3.19D		=	
>>FACH Parameters		<i>0..<maxno ofFACHs></i>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>FACH CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>Max FACH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>PCH Parameters		<i>0..1</i>			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>PCH CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>CHOICE HCR or LCR	M			See note 1 below	=	
>>>>3.84Mcps TDD					=	
>>>>PICH Parameters		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>>Time Slot	M		9.2.3.23		-	

>>>>>Midamble Shift And Burst Type	M		9.2.3.7		-	
>>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>>Repetition Period	M		9.2.3.16		-	
>>>>>Repetition Length	M		9.2.3.15		-	
>>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>>PICH Power	M		9.2.1.49A		-	
>>>>1.28Mcps TDD					=	
>>>>>PICH Parameters LCR		1			YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		=	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		=	
>>>>>Time Slot LCR	M		9.2.3.24A		=	
>>>>>Midamble Shift LCR	M		9.2.3.7A		=	
>>>>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>>>>Repetition Period	M		9.2.3.16		=	
>>>>>Repetition Length	M		9.2.3.15		=	
>>>>>Paging Indicator Length	M		9.2.3.8		=	
>>>>>PICH Power	M		9.2.1.49A		=	
>>>>>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		=	
>>>>PCH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>>>>PICH Parameters LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>>>TDD Physical	M		9.2.3.20		-	

Channel Offset						
>>>>Repetition Period	M		9.2.3.16		-	
>>>>Repetition Length	M		9.2.3.15		-	
>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>PICH Power	M		9.2.1.49A		-	
>>>>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		YES	reject
>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>Secondary CCPCH LCR		0..<maxno ofSCCPG HsLCR>		Mandatory for 1.28Meps TDD. Not Applicable to 3.84Meps TDD.	GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>Repetition Period	M		9.2.3.16		-	
>>>Repetition Length	M		9.2.3.15		-	
>>>SCCPCH Power	M		DL Power 9.2.1.24		-	
>>> SCCPCH Time Slot Format LCR	M		TDD-DL DPCH Time Slot Format LCR 9.2.3.19D		-	
>PRACH					-	
>>CHOICE HCR or LCR	M			See note 1 below	-	
>>>3.84Mcps TDD					-	
>>>>PRACH	M	0..1		Mandatory for 3.84Meps TDD. Not Applicable to 1.28Meps TDD.	YES	reject
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>TFCS	M		9.2.1.58		-	
>>>>Time Slot	M		9.2.3.23		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	

>>>>Max PRACH Midamble Shifts	M		9.2.3.6		–	
>>>>PRACH Midamble	M		9.2.3.14		–	
>>>>RACH		1			YES	reject
>>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>>Transport Format Set	M		9.2.1.59	For the UL	–	
>>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>1.28Mcps TDD						
>>>>PRACH LCR		0..1.<max number of PRACH LCRs>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>>TFCS	M		9.2.1.58		–	
>>>>>Time Slot LCR	M		9.2.3.24A		–	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
>>>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>>>RACH		1			YES	reject
>>>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>>>Transport Format Set	M		9.2.1.59	For the UL	–	
>>>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>FPACH		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>>Common Physical	M		9.2.1.13		–	

Channel ID						
>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>Max FPACH Power	M		9.2.3.5E		–	

[Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.](#)

Range Bound	Explanation
<i>maxnoofSCCPCHs</i>	Maximum number of Secondary CCPCHs per CCTrCH for 3.84Mcps TDD
<i>maxnoofSCCPCHsLCR</i>	Maximum number of Secondary CCPCHs per CCTrCH for 1.28Mcps TDD
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs that can be defined in a cell
<i>maxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH
<i>maxnoofPRACHLCRs</i>	Maximum number of PRACHs LCR that can be defined on a RACH for 1.28Mcps TDD

/* partly omitted */

9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
SFN	O		9.2.1.53A		YES	reject
PDSCH Sets To Add		<i>0..<maxno ofPDSCH Sets></i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
>PDSCH To Add Information		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>DL Timeslot Information		<i>1..<maxno ofDLts></i>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
>>>DL Code Information		<i>1..<maxno ofPDSCHs ></i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	

>>>>TDD Channelisation Code	M		9.2.3.19		-	
>PDSCH To Add Information LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>DL Timeslot Information LCR		1..<maxno ofDLtsLCR >			-	
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>TFCI Presence	M		9.2.1.57		-	
>>>DL Code Information LCR		1..<maxno ofPDSCHs >			-	
>>>>PDSCH ID	M		9.2.3.10		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
PDSCH Sets To Modify		0..<maxno of PDSCHsets>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	
>CHOICE HCR or LCR	<u>M</u>			See note 1 below	<u>-</u>	
>>3.84Mcps TDD					<u>-</u>	
>>>PDSCH To Modify Information		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>DL Timeslot Information		0..<maxno ofDLts>			-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>DL Code Information		0..<maxno ofPDSCHs >			-	
>>>>>>PDSCH ID	M		9.2.3.10		-	
>>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>1.28Mcps TDD					<u>-</u>	
>>>PDSCH To Modify Information LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject

>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>DL Timeslot Information LCR		0..<maxno ofDLtsLCR>			-	
>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>>TFCI Presence	O		9.2.1.57		-	
>>>>DL Code Information LCR		0..<maxno ofPDSCHs>			-	
>>>>>PDSCH ID	M		9.2.3.10		-	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
PDSCH Sets To Delete		0..<maxno of PDSCHsets>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	
PUSCH Sets To Add		0..<maxno of PUSCHsets>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	
>PUSCH To Add Information		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>UL Timeslot Information		1..<maxno ofULts>			-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift And Burst Type	M		9.2.3.7		-	
>>>TFCI Presence	M		9.2.1.57		-	
>>>UL Code Information		1..<maxno ofPUSCHs>			-	
>>>>PUSCH ID	M		9.2.3.12		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>PUSCH To Add Information LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	

>>UL Timeslot Information LCR		1..<maxno ofULtsLCR >			-	
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>TFCI Presence	M		9.2.1.57		-	
>>>UL Code Information LCR		1..<maxno ofPUSCHs >			-	
>>>>PUSCH ID	M		9.2.3.12		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
PUSCH Sets To Modify		0..<maxno of PUSCHSets>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	
>CHOICE HCR or LCR	M			See note 1 below	=	
>>3.84Mcps TDD					=	
>>>PUSCH To Modify Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>UL Timeslot Information		0..<maxno ofULts>			-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>UL Code Information		0..<maxno ofPUSCHs >			-	
>>>>>>PUSCH ID	M		9.2.3.12		-	
>>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>1.28Mcps TDD					=	
>>>PUSCH To Modify Information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>UL Timeslot Information LCR		0..<maxno ofULtsLCR >		Applicable to 1.28Mcps TDD only	-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>>>TFCI Presence	O		9.2.1.57		-	

>>>>UL Code Information LCR		<i>0..<maxno ofPUSCHs ></i>			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
PUSCH Sets To Delete		<i>0..<maxno ofPUSCH Sets></i>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
HS-PDSCH TDD Information		<i>0..1</i>			GLOBAL	reject
>DL Timeslot and Code Information		<i>0..<maxno ofDLts></i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>Codes		<i>1..<maxno ofHSPDS CHs></i>			–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
>>HS-PDSCH and HS-SCCH Total Power	O		Maximum Transmission Power 9.2.1.40	Maximum transmission power to be allowed for HS-PDSCH and HS-SCCH codes in the timeslot	YES	reject
>DL Timeslot and Code Information LCR		<i>0..<maxno ofDLtsLCR ></i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	–	
>>Time Slot LCR	M		9.2.3.24a		–	
>>Midamble Shift LCR	M		9.2.3.7A		–	
>>Codes LCR		<i>1..<maxno ofHSPDS CHs></i>			–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
>>HS-PDSCH and HS-SCCH Total Power	O		Maximum Transmission Power 9.2.1.40	Maximum transmission power to be allowed for HS-PDSCH and HS-SCCH codes in the timeslot	YES	reject
Add to HS-SCCH Resource Pool		<i>0..1</i>			GLOBAL	reject
>HS-SCCH Information		<i>0..<maxno ofHSSCC Hs></i>		Applicable to 3.84Mcps TDD only	–	
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	

>>TDD Channelisation Code	M		9.2.3.19		–	
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		–	
>>HS-SICH Information		1			–	
>>>HS-SICH ID	M		9.2.3.5Gb		–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
>HS-SCCH Information LCR		0..<maxno ofHSSCC Hs>		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot LCR	M		9.2.3.24a		–	
>>Midamble Shift LCR	M		9.2.3.7A		–	
>>First TDD Channelisation Code	M		TDD Channelisation Code 9.2.3.19		–	
>>Second TDD Channelisation Code	M		TDD Channelisation Code 9.2.3.19		–	
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		–	
>>HS-SICH Information LCR		1			–	
>>>HS-SICH ID	M		9.2.3.5Gb		–	
>>>Time Slot LCR	M		9.2.3.24a		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
Modify HS-SCCH Resource Pool		0..1			GLOBAL	reject
>HS-SCCH Information		0..<maxno ofHSSCC Hs>		Applicable to 3.84Mcps TDD only	–	
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot	O		9.2.3.23		–	
>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>TDD Channelisation Code	O		9.2.3.19		–	
>>Maximum HS-SCCH Power	O		DL Power 9.2.1.21		–	
>>HS-SICH Information		0..1			–	
>>>HS-SICH ID	M		9.2.3.5Gb		–	
>>>Time Slot	O		9.2.3.23		–	
>>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>>TDD Channelisation Code	O		9.2.3.19		–	
>HS-SCCH Information LCR		0..<maxno ofHSSCC Hs>		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot LCR	O		9.2.3.24a		–	
>>Midamble Shift LCR	O		9.2.3.7A		–	

>>First TDD Channelisation Code	O		TDD Channelisation Code 9.2.3.19		-	
>>Second TDD Channelisation Code	O		TDD Channelisation Code 9.2.3.19			
>>Maximum HS-SCCH Power	O		DL Power 9.2.1.21		-	
>>HS-SICH Information LCR		0..1			-	
>>>HS-SICH ID	M		9.2.3.5Gb		-	
>>>Time Slot LCR	O		9.2.3.24a		-	
>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>TDD Channelisation Code	O		9.2.3.19		-	
Delete from HS-SCCH Resource Pool		0..<maxno of HSSCCHs >			GLOBAL	reject
>HS-SCCH ID	M		9.2.3.5Ga		-	

[Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.](#)

Range Bound	Explanation
<i>maxnoofPDSCHSets</i>	Maximum number of PDSCH Sets in a cell
<i>maxnoofPDSCHs</i>	Maximum number of PDSCHs in a cell
<i>maxnoofPUSCHSets</i>	Maximum number of PUSCH Sets in a cell
<i>maxnoofPUSCHs</i>	Maximum number of PUSCHs in a cell
<i>maxnoofDLts</i>	Maximum number of Downlink time slots in a cell for 3.84Mcps TDD
<i>maxnoofDLtsLCR</i>	Maximum number of Downlink time slots in a cell for 1.28Mcps TDD
<i>maxnoofULts</i>	Maximum number of Uplink time slots in a cell for 3.84Mcps TDD
<i>maxnoofULtsLCR</i>	Maximum number of Uplink time slots in a cell for 1.28Mcps TDD
<i>maxnoofHSSCCHs</i>	Maximum number of HS-SCCHs in a Cell
<i>maxnoofHSPDSCHs</i>	Maximum number of HS-PDSCHs in one time slot of a Cell

9.3.3 PDU Definitions

/* partly omitted */

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
--
-- *****

CommonTransportChannelSetupRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{CommonTransportChannelSetupRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer  {{CommonTransportChannelSetupRequestTDD-Extensions}}    OPTIONAL,
    ...
}

CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY reject      TYPE          C-ID
      PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY reject      TYPE          ConfigurationGenerationID
      PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCH-SetupRqstTDD CRITICALITY ignore    TYPE          CommonPhysicalChannelType-CTCH-
      SetupRqstTDD      PRESENCE mandatory },
    ...
}

CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstTDD,
    pRACH-parameters                PRACH-CTCH-SetupRqstTDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstTDD ::= SEQUENCE {
    sCCPCH-CCTrCH-ID                CCTrCH-ID,
    tFCS                             TFCS,
    tFCI-Coding                      TFCI-Coding,
    punctureLimit                    PunctureLimit,
    secondaryCCPCH-parameterList     Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    fACH-ParametersList              FACH-ParametersList-CTCH-SetupRqstTDD    OPTIONAL,
    pCH-Parameters                   PCH-Parameters-CTCH-SetupRqstTDD    OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer  {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}    OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-LCR-
      parameterList-CTCH-SetupRqstTDD PRESENCE optional }, Mandatory for 1.28Meps-TDD, Not Applicable to 3.94Meps-TDD

```

```

    ...
}

Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD }}

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD PRESENCE
mandatory optional } | Mandatory for 3.84Meps TDD, Not Applicable to 1.28Meps TDD
  { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD
  PRESENCE optional }
}

Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  tdd-ChannelisationCode           TDD-ChannelisationCode,
  timeslot                         TimeSlot,
  midambleShiftandBurstType        MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
  repetitionPeriod                 RepetitionPeriod,
  repetitionLength                 RepetitionLength,
  s-CCPCH-Power                    DL-Power,
  iE-Extensions                    ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}

FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstTDD PRESENCE mandatory }
}

FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD

FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  fACH-CCTrCH-ID                   CCTrCH-ID,
  dl-TransportFormatSet             TransportFormatSet,
  toAWS                             ToAWS,
  toAWE                             ToAWE,
  iE-Extensions                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional }
}

```

```

-- Applicable to 1.28Mcps TDD only
{ ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional }|
{ ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
...
}

PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}

PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  pCH-CCTrCH-ID CCTrCH-ID,
  dl-TransportFormatSet TransportFormatSet,
  toAWS ToAWS,
  toAWE ToAWE,
  pICH-Parameters PICH-Parameters-CTCH-SetupRqstTDD,
  iE-Extensions ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PCH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional }|
  { ID id-PICH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PICH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional }, Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional }|
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
  ...
}

PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}

PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional }|
  { ID id-PICH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject TYPE PICH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional }
  Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
}

PICH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  pagingIndicatorLength PagingIndicatorLength,
  pICH-Power PICH-Power,
  iE-Extensions ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    timeSlotLCR                      TimeSlotLCR,
    midambleShiftLCR                 MidambleShiftLCR,
    tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
    repetitionPeriod                 RepetitionPeriod,
    repetitionLength                 RepetitionLength,
    pagingIndicatorLength            PagingIndicatorLength,
    pICH-Power                       PICH-Power,
    second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions                    ProtocolExtensionContainer { { PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    timeslotLCR                      TimeSlotLCR,
    midambleShiftLCR                 MidambleShiftLCR,
    tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
    repetitionPeriod                 RepetitionPeriod,
    repetitionLength                 RepetitionLength,
    s-CCPCH-Power                   DL-Power,
    s-CCPCH-TimeSlotFormat-LCR      TDD-DL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions                    ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
    prach-Parameters-CTCH-SetupRqstTDD PRACH-Parameters-CTCH-SetupRqstTDD,
    iE-Extensions                      ProtocolExtensionContainer { { PRACH-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```



```


{ ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional } | Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
{ ID id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional }, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
...
}

PRACH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRqstTDD }}

PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional } |
  { ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional }
} Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD

PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tFCS TFCS,
  timeslot TimeSlot,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  maxPRACH-MidambleShifts MaxPRACH-MidambleShifts,
  pRACH-Midamble PRACH-Midamble,
  rACH RACH-Parameter-CTCH-SetupRqstTDD,
  iE-Extensions ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}

RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-ParameterItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE RACH-ParameterItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  uL-TransportFormatSet TransportFormatSet,
  iE-Extensions ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tFCS TFCS,


```

```

timeslotLCR                TimeSlotLCR,
tdd-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR,
midambleShiftLCR          MidambleShiftLCR,
rACH                       RACH-Parameter-CTCH-SetupRqstTDD,
iE-Extensions              ProtocolExtensionContainer { { PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FPACH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
commonPhysicalChannelID    CommonPhysicalChannelID,
tdd-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR,
timeslotLCR                TimeSlotLCR,
midambleShiftLCR          MidambleShiftLCR,
fPACH-Power                FPACH-Power,
iE-Extensions              ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
/* partly omitted */

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

PhysicalSharedChannelReconfigurationRequestTDD ::= SEQUENCE {
protocolIEs                ProtocolIE-Container {{PhysicalSharedChannelReconfigurationRequestTDD-IEs}},
protocolExtensions        ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestTDD-Extensions}} OPTIONAL,
...
}

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-C-ID                CRITICALITY reject          TYPE C-ID
PRESENCE mandatory } |
{ ID id-SFN                 CRITICALITY reject          TYPE SFN
PRESENCE optional } |
{ ID id-PDSCHSets-AddList-PSCH-ReconfRqst CRITICALITY reject          TYPE PDSCHSets-AddList-PSCH-ReconfRqst PRESENCE
optional } |
{ ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY reject          TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst PRESENCE
optional } |
{ ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY reject          TYPE PDSCHSets-DeleteList-PSCH-ReconfRqst PRESENCE
optional } |
{ ID id-PUSCHSets-AddList-PSCH-ReconfRqst CRITICALITY reject          TYPE PUSCHSets-AddList-PSCH-ReconfRqst PRESENCE
optional } |

```

```

    { ID id-PUSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-ModifyList-PSCH-ReconfRqst PRESENCE
      optional } |
    { ID id-PUSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-DeleteList-PSCH-ReconfRqst PRESENCE
      optional },
    ...
  }

PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION HS-PDSCH-TDD-Information-PSCH-ReconfRqst
    PRESENCE optional } |
  { ID id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional } |
  { ID id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst
    PRESENCE optional } |
  { ID id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Delete-From-HS-SCCH-Resource-Pool-PSCH-
    ReconfRqst PRESENCE optional },
  ...
}

PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst

PDSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCHSet-ID PDSCHSet-ID,
  pDSCH-InformationList PDSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 1.28Mcps TDD only
  ...
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD

PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-AddItem-PSCH-ReconfRqst PRESENCE
    mandatory}
}

PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  dL-Timeslot-InformationAddList-PSCH-ReconfRqst DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType    MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    dL-Code-InformationAddList-PSCH-ReconfRqst    DL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst    DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { {PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR            MidambleShiftLCR,
    tFCI-Presence            TFCI-Presence,
    dL-Code-InformationAddList-LCR-PSCH-ReconfRqst    DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

```

```

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID                PDSCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCHSet-ID                PDSCHSet-ID,
  pDSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst,
  iE-Extensions             ProtocolExtensionContainer { { PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
  PRESENCE optional}, Mandatory for 1.28Meps TDD, Not Applicable to 3.84Meps TDD
  ...
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-ModifyItem-PSCH-ReconfRqst
  PRESENCE optional}| Mandatory for 3.84Meps TDD, Not Applicable to 1.28Meps TDD
  {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
  PRESENCE optional}
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod          OPTIONAL,
  repetitionLength          RepetitionLength           OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dL-Timeslot-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer { { PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence           TFCI-Presence OPTIONAL,
    dL-Code-InformationModifyList-PSCH-ReconfRqst DL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod OPTIONAL,
    repetitionLength        RepetitionLength OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR            TimeSlotLCR,
    midambleShiftLCR      MidambleShiftLCR OPTIONAL,
    tFCI-Presence         TFCI-Presence OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

```

```

    ...
}

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR,
    iE-Extensions            ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID                PDSCHSet-ID,
    iE-Extensions            ProtocolExtensionContainer { { PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList        PUSCH-Information-AddList-PSCH-ReconfRqst    OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    iE-Extensions            ProtocolExtensionContainer { { PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst    CRITICALITY reject    EXTENSION    PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE    optional}, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst    CRITICALITY reject    TYPE    PUSCH-Information-AddItem-PSCH-ReconfRqst    PRESENCE
    mandatory}
}

```

```

}

PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst    UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions             ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot          TimeSlot,
    midambleShiftAndBurstType    MidambleShiftAndBurstType,
    tFCI-Presence      TFCI-Presence,
    uL-Code-InformationAddList-PSCH-ReconfRqst    UL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions             ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst

UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID          PUSCH-ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst    UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions             ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```



```

    ...
}

UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR,
    tFCI-Presence               TFCI-Presence,
    uL-Code-InformationAddList-LCR-PSCH-ReconfRqst  UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions               ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                   PUSCH-ID,
    tdd-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR,
    iE-Extensions               ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList      PUSCH-Information-ModifyList-PSCH-ReconfRqst OPTIONAL,
    Applicable to 3.84Meps TDD only
    iE-Extensions               ProtocolExtensionContainer { { PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
PRESENCE optional}, Applicable to 1.28Meps TDD only
    ...
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    { ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE mandatoryoptional }
}

```

```

{ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
PRESENCE optional}
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence              TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                  PUSCH-ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

```

```

    }
PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR    OPTIONAL,
    tFCI-Presence              TFCI-Presence      OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                   PUSCH-ID,
    tdd-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR,
    iE-Extensions              ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst
PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID               PUSCHSet-ID,
    iE-Extensions              ProtocolExtensionContainer { { PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
HS-PDSCH-TDD-Information-PSCH-ReconfRqst ::= SEQUENCE {
    dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst    OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

```

```

HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst

DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    dl-HS-PDSCH-Codelist-PSCH-ReconfRqst DL-HS-PDSCH-Codelist-PSCH-ReconfRqst,
    maxHSDSCH-HSSCCH-Power MaximumTransmissionPower OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-HS-PDSCH-Codelist-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode

DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlotLCR,
    midambleShiftAndBurstType MidambleShiftLCR,
    dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst,
    maxHSDSCH-HSSCCH-Power MaximumTransmissionPower OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-Information-PSCH-ReconfRqst HS-SCCH-Information-PSCH-ReconfRqst OPTIONAL,
    hS-SCCH-Information-LCR-PSCH-ReconfRqst HS-SCCH-Information-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRqst

```

```

HS-SCCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
    hs-SCCH-ID                HS-SCCH-ID,
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    hs-SCCH-MaxPower          DL-Power,
    hs-SICH-Information       HS-SICH-Information-PSCH-ReconfRqst,
    iE-Extensions             ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Information-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID                HS-SICH-ID,
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

HS-SICH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hs-SCCH-ID                HS-SCCH-ID,
    timeSlotLCR               TimeSlotLCR,
    midambleShiftLCR          MidambleShiftLCR,
    first-TDD-ChannelisationCode TDD-ChannelisationCode,
    second-TDD-ChannelisationCode TDD-ChannelisationCode,
    hs-SCCH-MaxPower          DL-Power,
    hs-SICH-Information-LCR    HS-SICH-Information-LCR-PSCH-ReconfRqst,
    iE-Extensions             ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID                HS-SICH-ID,
    timeSlotLCR               TimeSlotLCR,
    midambleShiftLCR          MidambleShiftLCR,
    tdd-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
}

```

```

    ...
}

HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-InformationModify-PSCH-ReconfRqst      HS-SCCH-InformationModify-PSCH-ReconfRqst  OPTIONAL,
    hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst  HS-SCCH-InformationModify-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions                                 ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-ID                HS-SCCH-ID,
    timeSlot                  TimeSlot  OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType  OPTIONAL,
    tdd-ChannelisationCode    TDD-ChannelisationCode  OPTIONAL,
    hS-SCCH-MaxPower          DL-Power  OPTIONAL,
    hS-SICH-Information       HS-SICH-Information-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }  OPTIONAL,
    ...
}

HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID                HS-SICH-ID,
    timeSlot                  TimeSlot  OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType  OPTIONAL,
    tdd-ChannelisationCode    TDD-ChannelisationCode  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs } }  OPTIONAL,
    ...
}

HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-ID                HS-SCCH-ID,

```

```

timeSlotLCR                TimeSlotLCR    OPTIONAL,
midambleShiftLCR          MidambleShiftLCR  OPTIONAL,
first-TDD-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
second-TDD-ChannelisationCode TDD-ChannelisationCode  OPTIONAL,
hS-SCCH-MaxPower          DL-Power    OPTIONAL,
hS-SICH-Information-LCR    HS-SICH-Information-LCR-PSCH-ReconfRqst  OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
...
}

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  hsSICH-ID                HS-SICH-ID,
  timeSlotLCR              TimeSlotLCR    OPTIONAL,
  midambleShiftLCR         MidambleShiftLCR  OPTIONAL,
  tdd-ChannelisationCode    TDD-ChannelisationCode  OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer { { HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-ID                HS-SCCH-ID,
  iE-Extensions             ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
...
}

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

/* partly omitted */

```

CHANGE REQUEST

25.433 CR 918 # rev - # Current version: 4.10.0

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 corrections for 1.28Mcps TDD		
Source:	# RAN3		
Work item code:	# LCRTDD-lublur	Date:	# 17/11/2003
Category:	# F	Release:	# Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (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)

Reason for change:	# There are corrections in ASN.1 for 1.28Mcps TDD needed regarding that some of the IEs that are used for LCR TDD resulting in orphaned IEs.
Summary of change:	# The following ASN.1 IEs for LCR TDD are corrected in the RADIO LINK RECONFIGURATION PREPARE TDD message: UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD And in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD message: DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
Consequences if not approved:	# If this CR is not approved, LCR TDD will not work correctly. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because IEs for LCR TDD in ASN.1 is corrected. This CR has an impact under protocol point of view. The impact can be considered isolated because the change affects one function namely LCR TDD.

Clauses affected:	# 9.3.3
--------------------------	---------

Other specs affected:		Y	N		
	⌘	X		Other core specifications	⌘ 25.433 CR919 Rel-5
			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.

9.3.3 PDU Definitions

/* partly omitted */

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

/* partly omitted */

UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD    CRITICALITY reject    EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR    PRESENCE
    optional},
    ...
}
```

/* partly omitted */

DL-TimeSlot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeSlot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
DL-TimeSlot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD    ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR            MidambleShiftLCR            OPTIONAL,
    tFCI-Presence                TFCI-Presence                OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD    DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-TimeSlot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
DL-TimeSlot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD    CRITICALITY    reject    EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR    PRESENCE
    optional},
    ...
}
```

```
/* partly omitted */
```

```
-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****
```

```
/* partly omitted */
```

```
DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst
```

```
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR            MidambleShiftLCR    OPTIONAL,
    tFCI-Presence                TFCI-Presence    OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst    DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst
```

```
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR,
    iE-Extensions            ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}
```

```
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```

    ...
}

```

```
/* partly omitted */
```

```
UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst
```

```
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR    OPTIONAL,
    tFCI-Presence               TFCI-Presence      OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst  UL-Code-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

```

```
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst
```

```
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                    PUSCH-ID,
    tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
    iE-Extensions               ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

```

```
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
/* partly omitted */
```

CHANGE REQUEST

25.433 CR 919 # rev - # Current version: **5.6.0**

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 corrections for 1.28Mcps TDD		
Source:	# RAN3		
Work item code:	# LCRTDD-lublur	Date:	# 17/11/2003
Category:	# A	Release:	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (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)

Reason for change:	# There are corrections in ASN.1 for 1.28Mcps TDD needed regarding that some of the IEs that are used for LCR TDD resulting in orphaned IEs.
Summary of change:	# The following ASN.1 IEs for LCR TDD are corrected in the RADIO LINK RECONFIGURATION PREPARE TDD message: UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDL DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD hS-SCCH-Information-LCR-PSCH-ReconfRqst hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst And in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD message: DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
Consequences if not approved:	# If this CR is not approved, LCR TDD will not work correctly. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because IEs for LCR TDD in ASN.1 is corrected. This CR has an impact under protocol point of view. The impact can be considered isolated because the change affects one function namely LCR TDD.

Clauses affected:	⌘	9.3.3								
Other specs affected:		<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X
	Y	N								
	X									
	X									
	X									
	Other core specifications	⌘ 25.433 CR918 Rel-4								
	Test specifications									
	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.

9.3.3 PDU Definitions

/* partly omitted */

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

/* partly omitted */

UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLPCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLPCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE
    optional},
    ...
}
```

...

/* partly omitted */

DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR            MidambleShiftLCR    OPTIONAL,
    tFCI-Presence                TFCI-Presence    OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD    DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}
```

```
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
DL-Code-PCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCodePCR    TDD-ChannelisationCodePCR    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-Code-PCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-Code-PCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-TimeSlotFormat-PCR-ModifyItem-RL-ReconfPrepTDD    CRITICALITY    reject    EXTENSION TDD-DL-DPCH-TimeSlotFormat-PCR    PRESENCE
optional},
    ...
}

```

/* partly omitted */

```
Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-Information-PSCH-ReconfRqst    HS-SCCH-Information-PSCH-ReconfRqst    OPTIONAL,
    hS-SCCH-Information-PCR-PSCH-ReconfRqst HS-SCCH-Information-PCR-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

```

/* partly omitted */

```
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-InformationModify-PSCH-ReconfRqst    HS-SCCH-InformationModify-PSCH-ReconfRqst    OPTIONAL,
    hS-SCCH-InformationModify-PCR-PSCH-ReconfRqst HS-SCCH-InformationModify-PCR-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

```

/* partly omitted */

```
-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

```

/* partly omitted */

```
DL-TimeSlot-PCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeSlot-PCR-InformationModifyItem-PSCH-ReconfRqst

```

```
DL-TimeSlot-PCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotPCR            TimeSlotPCR,
    midambleShiftPCR        MidambleShiftPCR    OPTIONAL,
    tFCI-Presence          TFCI-Presence    OPTIONAL,
    dL-Code-PCR-InformationModifyList-PSCH-ReconfRqst    DL-Code-PCR-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
}

```



```

    iE-Extensions
    OPTIONAL,
    ...
}

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                               PDSCH-ID,
    tdd-ChannelisationCodeLCR              TDD-ChannelisationCodeLCR,
    iE-Extensions                          ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

/* partly omitted */

UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                            TimeSlotLCR,
    midambleShiftLCR                       MidambleShiftLCR OPTIONAL,
    tFCI-Presence                          TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                               PUSCH-ID,
    tdd-ChannelisationCodeLCR              TDD-ChannelisationCodeLCR,
    iE-Extensions                          ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

}

/ partly omitted */*

CHANGE REQUEST

25.433 CR 926 # rev - # Current version: **4.10.0**

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 Timing advance applied for 1.28Mcps TDD		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 12/11/2003
Category:	# F	Release:	# Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2	(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)

Reason for change:	# In TS25.225 it is mentioned that RX Timing Deviation can also be used for 1.28Mcps TDD, e.g. for location services. Since the <i>Timing Advance Applied</i> IE defines the need for Rx Timing Deviation measurement results to be reported in a particular cell, the <i>Timing Advance Applied</i> IE should not only be set to "No" for 1.28Mcps TDD.
Summary of change:	# <i>Timing Advance Applied</i> IE could also be used for 1.28Mcps TDD. The corresponding changes have been made in ASN.1. Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects only the usage of Timing Advance Applied for 1.28Mcps TDD.
Consequences if not approved:	# If this CR is not approved, Rx Timing Deviation measurement results would not to be reported in a particular cell for 1.28Mcps TDD .

Clauses affected:	# 8.2.13.2, 9.1.27.2, 9.2.3.22A, 9.3.3, 9.3.4										
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;">X</td> <td style="text-align: center;"></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	# TS25.433 REL-5 CR927
Y	N										
X											
	X										
	X										
		Test specifications									
		O&M Specifications									
Other comments:	#										

How to create CRs using this form:

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- 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.

8.2.13 Cell Reconfiguration

8.2.13.1 General

This procedure is used to reconfigure a cell in the Node B.

8.2.13.2 Successful Operation

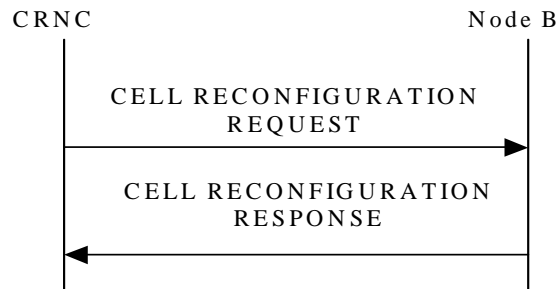


Figure 18: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information IE*, the Node B shall reconfigure the Primary SCH power in the cell according to *Primary SCH Power IE* value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information IE*, the Node B shall reconfigure the Secondary SCH power in the cell according to the *Secondary SCH Power IE* value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information IE*, the Node B shall reconfigure the Primary CPICH power in the cell according to the *Primary CPICH Power IE* value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information IE*, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power IE* value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information IE*, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power IE* value.]

[~~3.84Mcps~~ TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied IE*, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied IE* value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information IE*, the Node B shall reconfigure the BCH power in the cell according to the *BCH Power IE* value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information IE*, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power IE* value. The Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power IE*, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot* IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration LCR* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot LCR* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *DPCH/PUSCH/PRACH Constant Value* IEs, the Node B shall use these values when generating the appropriate SIB.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *DwPCH Information* IE, the Node B shall reconfigure the DwPCH power in the Cell according to the *DwPCH Power* IE]

[FDD – If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL FDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Information* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received downloaded parameters defined by the *IPDL TDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Information* IE, the IPDL shall be operated in burst mode according to ref [21].]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the *N_INSYNC_IND*, *N_OUTSYNC_IND* and *T_RLFAILURE* IEs. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

8.2.13.3 Unsuccessful Operation

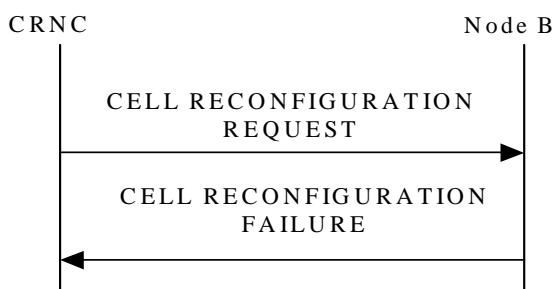


Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message, the CELL RECONFIGURATION FAILURE message shall be sent to the CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in the Node B.

The *Cause* IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause

- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.2.13.4 Abnormal Conditions

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL already activated".]

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored in the Node B defining the IPDL, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL parameters not available".]

/* partly omitted */

9.1.27 CELL RECONFIGURATION REQUEST

/* partly omitted */

9.1.27.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Synchronisation Configuration		0..1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		–	
>N_OUTSYNC_IND	M		9.2.1.47B		–	
>T_RLFAILURE	M		9.2.1.56A		–	
Timing Advance Applied	O		9.2.3.22A	Applicable to 3.84Mcps TDD only	YES	reject
SCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>SCH Power	M		DL Power 9.2.1.21		–	
PCCPCH Information		0..1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>PCCPCH Power	M		9.2.3.9		–	
Maximum Transmission Power	O		9.2.1.40		YES	reject
DPCH Constant Value	O		Constant Value		YES	reject
PUSCH Constant Value	O		Constant Value		YES	reject
PRACH Constant Value	O		Constant Value		YES	reject
Time Slot Configuration		0..15		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	
Time Slot Configuration LCR		0..7		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	
DwPCH Information		0..1		Applicable to 1.28Mcps TDD only.	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>DwPCH Power	M		9.2.3.5B		–	
IPDL Parameter Information		0..1			YES	reject
>IPDL TDD Parameters	O		9.2.3.5D		–	
>IPDL Indicator	M		9.2.1.36F		–	

/* partly omitted */

9.2.3.22A Timing Advance Applied

Defines the need for Rx Timing Deviation measurement results to be reported in a particular cell.

~~{1.28Meps TDD, this IE shall be set to "No"}.~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timing Advance Applied			ENUMERATED (Yes, No)	

/* partly omitted */

9.3.3 PDU Definitions

/* partly omitted */

```
-- *****
--
-- CELL RECONFIGURATION REQUEST TDD
--
-- *****
```

```
CellReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{CellReconfigurationRequestTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
    ...
}

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY  reject    TYPE          C-ID
      PRESENCE  mandatory    }|
    { ID      id-ConfigurationGenerationID  CRITICALITY  reject    TYPE          ConfigurationGenerationID
      PRESENCE  mandatory    }|
    { ID      id-Synchronisation-Configuration-Cell-ReconfRqst  CRITICALITY  reject    TYPE          Synchronisation-Configuration-
Cell-ReconfRqst PRESENCE  optional    }|
    { ID      id-TimingAdvanceApplied  CRITICALITY  reject    TYPE          TimingAdvanceApplied
      PRESENCE  optional    }| Applicable to 3.84Mcps TDD only
    { ID      id-SCH-Information-Cell-ReconfRqstTDD  CRITICALITY  reject    TYPE          SCH-Information-Cell-
ReconfRqstTDD PRESENCE  optional    }| -- Applicable to 3.84Mcps TDD only
    { ID      id-PCCPCH-Information-Cell-ReconfRqstTDD  CRITICALITY  reject    TYPE          PCCPCH-Information-Cell-
ReconfRqstTDD PRESENCE  optional    }|
    { ID      id-MaximumTransmissionPower  CRITICALITY  reject    TYPE          MaximumTransmissionPower
      PRESENCE  optional    }|
    { ID      id-DPCHConstant              CRITICALITY  reject    TYPE          ConstantValue
      PRESENCE  optional    }|
    { ID      id-PUSCHConstant              CRITICALITY  reject    TYPE          ConstantValue
      PRESENCE  optional    }|
    { ID      id-PRACHConstant              CRITICALITY  reject    TYPE          ConstantValue
      PRESENCE  optional    }|
    { ID      id-TimeSlotConfigurationList-Cell-ReconfRqstTDD  CRITICALITY  reject    TYPE          TimeSlotConfigurationList-Cell-
ReconfRqstTDD PRESENCE  optional    }, -- Applicable to 3.84Mcps TDD only
    ...
}

CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD  CRITICALITY  reject    EXTENSION  TimeSlotConfigurationList-LCR-
Cell-ReconfRqstTDD PRESENCE  optional    }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { ID      id-DwPCH-LCR-Information-Cell-ReconfRqstTDD  CRITICALITY  reject    EXTENSION  DwPCH-LCR-Information-Cell-
ReconfRqstTDD PRESENCE  optional    }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { ID      id-IPDLParameter-Information-Cell-ReconfRqstTDD  CRITICALITY  reject    EXTENSION  IPDLParameter-Information-
Cell-ReconfRqstTDD PRESENCE  optional    },
    ...
}

```

```
SCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {  
    commonPhysicalChannelID      CommonPhysicalChannelID,  
    sCH-Power                    DL-Power,  
    iE-Extensions                ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL,  
    ...  
}
```

```
PSCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

/* partly omitted */

9.3.4 Information Elements Definitions

/* partly omitted */

```
TimingAdvanceApplied ::= ENUMERATED {  
    yes,  
    no  
}
```

~~For 1.28Meps TDD TimingAdvanceApplied = No~~

/* partly omitted */

CHANGE REQUEST

25.433 CR 927 # rev - # Current version: 5.6.0

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 Timing advance applied for 1.28Mcps TDD		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 12/11/2003
Category:	# A	Release:	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (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)

Reason for change:	# In TS25.225 it is mentioned that RX Timing Deviation can also be used for 1.28Mcps TDD, e.g. for location services. Since the <i>Timing Advance Applied</i> IE defines the need for Rx Timing Deviation measurement results to be reported in a particular cell, the <i>Timing Advance Applied</i> IE should not only be set to "No" for 1.28Mcps TDD.
Summary of change:	# <i>Timing Advance Applied</i> IE could also be used for 1.28Mcps TDD. The corresponding changes have been made in ASN.1. Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the change affects only the usage of Timing Advance Applied for 1.28Mcps TDD.
Consequences if not approved:	# If this CR is not approved, Rx Timing Deviation measurement results would not to be reported in a particular cell for 1.28Mcps TDD .

Clauses affected:	# 8.2.13.2, 9.1.27.2, 9.2.3.22A, 9.3.3, 9.3.4										
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;">X</td> <td style="text-align: center;"></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	# TS25.433 REL-4 CR926
Y	N										
X											
	X										
	X										
		Test specifications									
		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.

8.2.13 Cell Reconfiguration

8.2.13.1 General

This procedure is used to reconfigure a cell in the Node B.

8.2.13.2 Successful Operation

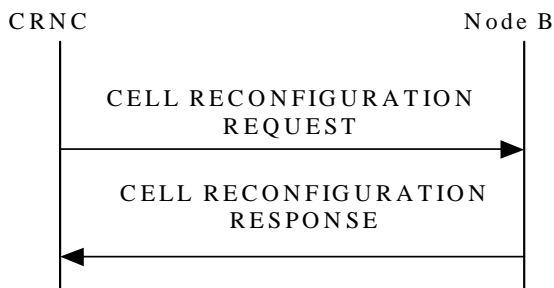


Figure 18: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information IE*, the Node B shall reconfigure the Primary SCH power in the cell according to *Primary SCH Power IE* value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information IE*, the Node B shall reconfigure the Secondary SCH power in the cell according to the *Secondary SCH Power IE* value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information IE*, the Node B shall reconfigure the Primary CPICH power in the cell according to the *Primary CPICH Power IE* value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information IE*, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power IE* value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information IE*, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power IE* value.]

[~~3.84Mcps~~ TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied IE*, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied IE* value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information IE*, the Node B shall reconfigure the BCH power in the cell according to the *BCH Power IE* value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information IE*, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power IE* value. The Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power IE*, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot* IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration LCR* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot LCR* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *DPCH/PUSCH/PRACH Constant Value* IEs, the Node B shall ignore them]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *DwPCH Information* IE, the Node B shall reconfigure the DwPCH power in the Cell according to the *DwPCH Power* IE]

[FDD -If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active" the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL FDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Information* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Information LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information LCR* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters LCR* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Information LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the *N_INSYNC_IND*, *N_OUTSYNC_IND* and *T_RLFAILURE* IEs. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD – If the CELL RECONFIGURATION REQUEST message includes the *Maximum PDSCH Power* IE, the Node B shall, if supported, store the values in the Node B and apply the indicated maximum power levels to the PDSCH. For spreading factors for which a maximum PDSCH power level was already configured and the CELL RECONFIGURATION REQUEST does not provide a new value for the concerning spreading factor, the Node B shall continue to use the existing value.]

/* partly omitted */

9.1.27 CELL RECONFIGURATION REQUEST

/* partly omitted */

9.1.27.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Synchronisation Configuration		0..1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		–	
>N_OUTSYNC_IND	M		9.2.1.47B		–	
>T_RLFAILURE	M		9.2.1.56A		–	
Timing Advance Applied	O		9.2.3.22A	Applicable to 3.84Mcps TDD only	YES	reject
SCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>SCH Power	M		DL Power 9.2.1.21		–	
PCCPCH Information		0..1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>PCCPCH Power	M		9.2.3.9		–	
Maximum Transmission Power	O		9.2.1.40		YES	reject
DPCH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PUSCH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PRACH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
Time Slot Configuration		0..15		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	
Time Slot Configuration LCR		0..7		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	
DwPCH Information		0..1		Applicable to 1.28Mcps TDD only.	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>DwPCH Power	M		9.2.3.5B		–	
IPDL Parameter Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>IPDL TDD Parameters	O		9.2.3.5D		–	

>IPDL Indicator	M		9.2.1.36F		–	
IPDL Parameter Information LCR		<i>0..1</i>		Applicable to 1.28Mcps TDD only	YES	reject
>IPDL TDD Parameters LCR	O		9.2.3.5H		–	
>IPDL Indicator	M		9.2.1.36F		–	

/ partly omitted */*

9.2.3.22A Timing Advance Applied

Defines the need for Rx Timing Deviation measurement results to be reported in a particular cell.

~~{1.28Mcps TDD—this IE shall be set to "No".}~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timing Advance Applied			ENUMERATED (Yes, No)	

/ partly omitted */*

9.3.3 PDU Definitions

/* partly omitted */

```

-- *****
--
-- CELL RECONFIGURATION REQUEST TDD
--
-- *****
CellReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CellReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}
    ...
}

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                                CRITICALITY  reject      TYPE      C-ID
    PRESENCE  mandatory }|
    { ID      id-ConfigurationGenerationID           CRITICALITY  reject      TYPE      ConfigurationGenerationID
    PRESENCE  mandatory }|
    { ID      id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY  reject      TYPE      Synchronisation-Configuration-
Cell-ReconfRqst PRESENCE  optional }|
    { ID      id-TimingAdvanceApplied                CRITICALITY  reject      TYPE      TimingAdvanceApplied
    PRESENCE  optional }| --- Applicable to 3.84Mcps TDD only
    { ID      id-SCH-Information-Cell-ReconfRqstTDD   CRITICALITY  reject      TYPE      SCH-Information-Cell-
ReconfRqstTDD PRESENCE  optional }| -- Applicable to 3.84Mcps TDD only
    { ID      id-PCCPCH-Information-Cell-ReconfRqstTDD CRITICALITY  reject      TYPE      PCCPCH-Information-Cell-
ReconfRqstTDD PRESENCE  optional }|
    { ID      id-MaximumTransmissionPower            CRITICALITY  reject      TYPE      MaximumTransmissionPower
    PRESENCE  optional }|
    { ID      id-DPCHConstant                         CRITICALITY  reject      TYPE      ConstantValue
    PRESENCE  optional }| -- This IE shall be ignored by the Node B.
    { ID      id-PUSCHConstant                       CRITICALITY  reject      TYPE      ConstantValue
    PRESENCE  optional }| -- This IE shall be ignored by the Node B.
    { ID      id-PRACHConstant                       CRITICALITY  reject      TYPE      ConstantValue
    PRESENCE  optional }| -- This IE shall be ignored by the Node B.
    { ID      id-TimeSlotConfigurationList-Cell-ReconfRqstTDD CRITICALITY  reject      TYPE      TimeSlotConfigurationList-Cell-
ReconfRqstTDD PRESENCE  optional }, -- Applicable to 3.84Mcps TDD only
    ...
}

CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD CRITICALITY  reject      EXTENSION  TimeSlotConfigurationList-LCR-
Cell-ReconfRqstTDD PRESENCE  optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { ID      id-DwPCH-LCR-Information-Cell-ReconfRqstTDD CRITICALITY  reject      EXTENSION  DwPCH-LCR-Information-Cell-
ReconfRqstTDD PRESENCE  optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { ID      id-IPDLParameter-Information-Cell-ReconfRqstTDD CRITICALITY  reject      EXTENSION  IPDLParameter-Information-
Cell-ReconfRqstTDD PRESENCE  optional }| -- Applicable to 3.84Mcps TDD only
    { ID      id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD CRITICALITY  reject      EXTENSION  IPDLParameter-
Information-LCR-Cell-ReconfRqstTDD PRESENCE  optional }, -- Applicable to 1.28Mcps TDD only
    ...
}

```

```
}  
SCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {  
    commonPhysicalChannelID      CommonPhysicalChannelID,  
    sCH-Power                    DL-Power,  
    iE-Extensions                ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,  
    ...  
}  
PSCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

/* partly omitted */

9.3.4 Information Elements Definitions

/* partly omitted */

```
TimingAdvanceApplied ::= ENUMERATED {  
    yes,  
    no  
}
```

~~For 1.28Meps TDD TimingAdvanceApplied = No~~

/* partly omitted */

CHANGE REQUEST

25.433 CR 950 # rev - # Current version: 4.10.0

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:	# Extension of <i>Requested Data Value IE</i>		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 17/11/2003
Category:	# F	Release:	# Rel-4
	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: 2 (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)

Reason for change:	# There is no extension mechanism in the ASN.1 definition of the <i>Requested Data Value IE</i> . This endangers forwards compatibility for an IE which is highly likely to be extended in the future.
Summary of change:	# An extension container is added to the ASN.1 definition of the <i>Requested Data Value IE</i> .
	<u>Impact Analysis:</u> Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it might affect implementations supporting Information Exchange function. This CR has an impact under functional and the protocol point of view. The impact can be considered isolated because the change affects one system function namely Information Exchange function.
Consequences if not approved:	# Forwards compatibility will not be ensured for the <i>Requested Data Value IE</i> which is very likely to need extension in the future.

Clauses affected:	# 9.3.4
	# Y N

Other specs affected:	⌘	<input checked="" type="checkbox"/>	Other core specifications	⌘	25.433 v 5.6.0	CR 951
		<input checked="" type="checkbox"/>	Test specifications			
		<input checked="" type="checkbox"/>	O&M Specifications			
Other comments:	⌘					

How to create CRs using this form:

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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.

9.3.4 Information Elements Definitions

```

--*****
--
-- Information Element Definitions
--
--*****

```

```

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

```

```

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

```

UNCHANGED TEXT IS REMOVED.

```

RequestedDataValue ::= SEQUENCE {
  dgps-corrections _____ DGPSCorrections _____ OPTIONAL,
  _____ gps-navandrecovery _____ GPS-NavgationModel-and-TimeRecovery _____ OPTIONAL,
  _____ gps-ionos-model _____ GPS-Ionospheric-Model _____ OPTIONAL,
  _____ gps-utc-model _____ GPS-UTC-Model _____ OPTIONAL,
  _____ gps-almanac _____ GPS-Almanac _____ OPTIONAL,
  _____ gps-rt-integrity _____ GPS-RealTime-Integrity _____ OPTIONAL,
  _____ gpsrxpos _____ GPS-RX-POS _____ OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RequestedDataValue-ExtIEs } } OPTIONAL,
  ...
}

```

```

RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

UNCHANGED TEXT IS REMOVED.

CHANGE REQUEST

25.433 CR 951 # rev - # Current version: 5.6.0

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:	# Extension of <i>Requested Data Value IE</i>		
Source:	# RAN3		
Work item code:	# TEI4	Date:	# 17/11/2003
Category:	# A	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: 2 (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)

Reason for change:	# There is no extension mechanism in the ASN.1 definition of the <i>Requested Data Value IE</i> . This endangers forwards compatibility for an IE which is highly likely to be extended in the future.
Summary of change:	# An extension container is added to the ASN.1 definition of the <i>Requested Data Value IE</i> .
	<u>Impact Analysis:</u> Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because it might affect implementations supporting Information Exchange function. This CR has an impact under functional and the protocol point of view. The impact can be considered isolated because the change affects one system function namely Information Exchange function.
Consequences if not approved:	# Forwards compatibility will not be ensured for the <i>Requested Data Value IE</i> which is very likely to need extension in the future.

Clauses affected:	# 9.3.4
	# Y N

Other specs affected:	⌘	<input checked="" type="checkbox"/>	Other core specifications	⌘	25.433 v 4.10.0	CR 950
		<input checked="" type="checkbox"/>	Test specifications			
		<input checked="" type="checkbox"/>	O&M Specifications			
Other comments:	⌘					

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9.3.4 Information Elements Definitions

```

--*****
--
-- Information Element Definitions
--
--*****

```

```

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

```

```

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

```

UNCHANGED TEXT IS REMOVED.

```

RequestedDataValue ::= SEQUENCE {
  dgps-corrections _____ DGPSCorrections _____ OPTIONAL,
  _____ gps-navandrecovery _____ GPS-NavigationModel-and-TimeRecovery _____ OPTIONAL,
  _____ gps-ionos-model _____ GPS-Ionospheric-Model _____ OPTIONAL,
  _____ gps-utc-model _____ GPS-UTC-Model _____ OPTIONAL,
  _____ gps-almanac _____ GPS-Almanac _____ OPTIONAL,
  _____ gps-rt-integrity _____ GPS-RealTime-Integrity _____ OPTIONAL,
  _____ gpsrxpos _____ GPS-RX-POS _____ OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RequestedDataValue-ExtIEs } } OPTIONAL,
  ...
}

```

```

RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

UNCHANGED TEXT IS REMOVED.