

**TSG-RAN Meeting #14  
Kyoto, Japan, 11 - 14, December, 2001**

**TSGRP#14(01) 0874**

**Title: Agreed CRs to TS 25.433**

**Source: TSG-RAN WG3**

**Agenda item: 8.3.3/8.3.4/9.4.3**

RP Tdoc	R3 Tdoc	Spec	CR_Num	Rev	Release	CR_Subject	Cat	Cur_Ver	New_Ver	Workitem
RP-010874	R3-013696	25.433	580	2	Rel-4	SFN-SFN quality indication	F	4.2.1	4.3.0	LCS1-UEpos-lublur
RP-010874	R3-013170	25.433	547		Rel-4	Cell Parameter ID IE definition for 1.28Mcps TDD	F	4.2.1	4.3.0	LCRTDD-lublur
RP-010874	R3-013677	25.433	546	1	Rel-4	Correction of drift rate resolution	F	4.2.1	4.3.0	LCS1-Uepos-lublur
RP-010874	R3-013173	25.433	548		Rel-4	Amendment of the RADIO LINK ADDITION RESPONSE TDD message for LCR TDD	F	4.2.1	4.3.0	TEI

## CHANGE REQUEST

⌘ **25.433 CR 546** ⌘ rev **1** ⌘ Current version: **4.2.1** ⌘

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

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Correction of drift rate resolution		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCS1-Uepos-lublur	<b>Date:</b>	⌘ November 2001
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		REL-4 (Release 4)
			REL-5 (Release 5)

**Reason for change:** ⌘ R1:  
The range of the following IE were changed:

- SFN-SFN Drift Rate IE is limited to (-100..100)
- SFN-SFN Drift Rate Quality IE is limited to (0..100)
- T<sub>UTRAN-GPS</sub> Drift Rate IE is limited to (-50..50)
- T<sub>UTRAN-GPS</sub> Drift Rate IE is limited to (0..50)

R0:  
Currently, the drift rate of the SFN-SFN and T<sub>UTRAN-GPS</sub> drift rate measurements has a resolution of the 1/16 chip, or 16 ns/s. This is very close to the absolute frequency requirement of the Node B [ref. 25.104] which is 0.05 ppm, or 50 ns/s. In addition the RRC SFN-SFN drift measurement has a resolution of the 1.1 ns/s (smallest).  
It is therefore proposed to change the resolution to 1/256 chip (appr. 1 ns/s).

The range of the IE has been changed to a range corresponding to drift rate of approximately 100 ns/s for the T<sub>UTRAN-GPS</sub>. The range of the SFN-SFN drift rate measurement is changed to twice the T<sub>UTRAN-GPS</sub> drift rate measurement. The drift rate quality measurements have been adjusted accordingly.

**Summary of change:** ⌘ The drift rate resolution has been change to 1/256 chip in the semantic description of the following IEs:

- SFN-SFN Drift Rate IE in the SFN-SFN Measurement Value Information IE.
- T<sub>UTRAN-GPS</sub> Drift Rate IE in the T<sub>UTRAN-GPS</sub> Measurement Value Information IE.

Also, The value range for these measurements and the corresponding quality measurements have been changed.

Impact analysis:

Impact assessment towards the previous version of the specification (same

release):  
 There is an impact. The range and resolution of the measurements have been changed.  
 Compatibility Analysis towards previous release:  
 No impact.

**Consequences if not approved:** ⌘ The resolution of the drift rate will not be enough as it is very close to the Node B drift rate requirement.

**Clauses affected:** ⌘ 9.2.1.53E, 9.2.1.64A and 9.3.4.

**Other specs affected:** ⌘  Other core specifications ⌘ 25.423 4.2.0: CR 486  
 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/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.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.

### 9.2.1.53E SFN-SFN Measurement Value Information

The SFN-SFN Measurement Value Information IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information</b>		1..<maxnoMeasN Cell>		
>UC-Id	M		9.2.1.65B	
>SFN-SFN	M		INTEGER(0..40961)	According to mapping in [22]. TBD by RAN4.
>SFN-SFN Quality	M		INTEGER(0..16383)	Indicates the standard deviation of the SFN-SFN measurements.
>SFN-SFN Drift Rate	M		INTEGER(-46383100..+46383100)	Indicates the SFN-SFN drift rate in 4461/256 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell.
>SFN-SFN Drift Rate Quality	M		INTEGER(0..46383100)	Indicates the standard deviation of the SFN-SFN drift rate measurements.
>SFN-SFN Measurement Time Stamp	M		9.2.1.53D	
<b>Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information</b>		0..<maxnoMeasN Cell-1>		
>UC-Id	M		9.2.1.65B	

Range bound	Explanation
<i>maxnoMeasNCell</i>	Maximum number of neighbouring cells that can be measured on.

### 9.2.1.64A T<sub>UTRAN-GPS</sub> Measurement Value Information

The T<sub>UTRAN-GPS</sub> *Measurement Value Information* IE indicates the measurement results related to the UTRAN GPS Timing of Cell Frame for LCS measurements.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
T <sub>UTRAN-GPS</sub>	M		INTEGER(0..3715891199999)	Indicates the UTRAN GPS Timing of Cell Frame for LCS. According to mapping in [22].
T <sub>UTRAN-GPS</sub> Quality	M		INTEGER(0..2 <sup>20</sup> -1)	Indicates the standard deviation of the T <sub>UTRAN-GPS</sub> measurements.
T <sub>UTRAN-GPS</sub> Drift Rate	M		INTEGER(-2 <sup>14</sup> +150..+2 <sup>14</sup> -150)	Indicates the T <sub>UTRAN-GPS</sub> drift rate in <del>4/46</del> <u>1/256</u> chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock.
T <sub>UTRAN-GPS</sub> Drift Rate Quality	M		INTEGER(0..2 <sup>14</sup> -150)	Indicates the standard deviation of the T <sub>UTRAN-GPS</sub> drift rate measurements.

## 9.3.4 Information Element Definitions

```
-- /Unaffceted parats are not included/
```

```
SFNSFNChangeLimit ::= INTEGER (0..16384)
```

```
| SFNSFNDriftRate ::= INTEGER (-16384100..16384100)
```

```
| SFNSFNDriftRateQuality ::= INTEGER (0..16384100)
```

```
SFNSFNMeasurementThresholdInformation ::= SEQUENCE {  
    sFNChangeLimit SFNSFNChangeLimit OPTIONAL,  
    predictedSFNSFNDeviationLimit PredictedSFNSFNDeviationLimit OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs} } OPTIONAL,  
    ...  
}
```

```
-- /Unaffceted parats are not included/
```

```
TUTRANGPSChangeLimit ::= INTEGER (0..1048575)
```

```
| TUTRANGPSDriftRate ::= INTEGER (-1638550..1638450)
```

```
| TUTRANGPSDriftRateQuality ::= INTEGER (0..1638350)
```

```
TUTRANGPSAccuracyClass ::= ENUMERATED {  
    accuracy-class-A,  
    accuracy-class-B,  
    accuracy-class-C,  
    ...  
}
```

## CHANGE REQUEST

⌘ **25.433 CR 547** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

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

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Cell Parameter ID IE definition for 1.28Mcps TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ November 2001
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-4
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p>Use <u>one</u> of the following releases:</p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>	

<b>Reason for change:</b>	⌘ In the current definition of the Cell Parameter ID IE the identifiers are only for 3.84Mcps TDD explained. Other identifiers are required for 1.28Mcps TDD as described in TS 25.223		
<b>Summary of change:</b>	⌘ The identifiers of the Cell Parameter ID IE for 1.28Mcps TDD are explained. These are: SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes.		
	<p>Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has no impact with the previous version of the specification (same release) because the clarification does not affect the implementation.</p>		
<b>Consequences if not approved:</b>	⌘ If these CR is not approved, the explanation of the identifiers of the Cell Parameter ID IE for 1.28Mcps TDD are incorrect.		

<b>Clauses affected:</b>	⌘ 9.2.3.4		
<b>Other specs affected:</b>	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	25.423 v4.2.0 CR 487, REL-4
<b>Other comments:</b>	⌘ This CR was in principle agreed at R3#24 meeting (R3-012924).		

### 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://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.



### 9.2.3.4 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the [3.84 Mcps TDD - Code Groups, Scrambling Codes, Midambles and Toffset] [1.28 Mcps TDD - SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes] (see ref. [20]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Parameter ID			INTEGER (0..127,...)	

## CHANGE REQUEST

⌘ **25.433** **CR 548** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

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

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

**Title:** ⌘ Amendment of the RADIO LINK ADDITION RESPONSE TDD message for LCR TDD

**Source:** ⌘ R-WG3

**Work item code:** ⌘ TEI

**Date:** ⌘ November 2001

**Category:** ⌘ **F**

**Release:** ⌘ REL-4

Use one of the following categories:

- F** (essential 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 one 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)

**Reason for change:** ⌘ The COMMON MEASUREMENT INITIATION REQUEST TDD message does not fully support 1.28Mcps TDD, because the "UL Time Slot ISCP Info" IE is for HCR TDD only, and for LCR TDD as "UL Time Slot ISCP Info LCR" IE is existing therefore introduction of "RL Information response LCR" IEgroup is required to fully support the COMMON MEASUREMENT INITIATION REQUEST TDD message for 1.28Mcps TDD.

**Summary of change:** ⌘ Modification of the "COMMON MEASUREMENT INITIATION REQUEST TDD message" in the tabular format and ASN.1 for introduction of "UL Time Slot ISCP Info LCR" IE in the "RL Information response LCR" IEgroup.

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 affects the RADIO LINK ADDITION procedure for LCR TDD only.

The impact can be considered isolated because the changes affects one function.

If only NodeB or RNC implement this CR then the affected procedure will not work however all other procedures are not affected.

**Consequences if not approved:** ⌘ If this CR is not approved, the COMMON MEASUREMENT INITIATION REQUEST TDD message is not fully supported for LCR TDD.

**Clauses affected:** ⌘ 9.1.40.2, 9.3.3, 9.3.6

**Other specs affected:** ⌘  Other core specifications ⌘   
 Test specifications ⌘   
 O&M Specifications ⌘

**Other comments:** ☼ This CR was in principle agreed at R3#24 meeting (R3-012927).

**How to create CRs using this form:**

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## 9.1.40 RADIO LINK ADDITION RESPONSE

## 9.1.40.1 FDD message

## 9.1.40.2 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
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information response</b>		0..1		Mandatory for 3.84Mcps TDD only	YES	ignore
>RL ID	M		9.2.1.53		–	
> UL Time Slot ISCP Info	M		9.2.3.26D		–	
>UL PhysCH SF Variation	M		9.2.3.26B		–	
<b>&gt;DCH Information</b>		0..1			–	
>>Diversity Indication	M		9.2.1.26		–	
>>CHOICE <i>diversity indication</i>	M				–	
>>> <i>Combining</i>				In TDD it indicates whether the old Transport Bearer shall be reused or not	–	
>>>>RL ID	M		9.2.1.53	Reference RL	–	
>>>> <i>Non combining</i>					–	
>>>>DCH Information Response	M		9.2.1.20C		–	
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore
<b>RL Information response LCR</b>		0..1		Mandatory for 1.28Mcps TDD only	YES	ignore
>RL ID	M		9.2.1.53		–	
> UL Time Slot ISCP Info LCR	M		9.2.3.26F		–	
>UL PhysCH SF Variation	M		9.2.3.26B		–	
<b>&gt;DCH Information</b>		0..1			–	
>>Diversity Indication	M		9.2.1.26		–	
>>CHOICE <i>diversity indication</i>	M				–	
>>>> <i>Combining</i>				In TDD it indicates whether the old Transport Bearer shall be reused or not	–	
>>>>>RL ID	M		9.2.1.53	Reference RL	–	

>>>Non combining					-	
>>>>DCH Information Response	M		9.2.1.20C		-	
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29		YES	ignore

/\* partly omitted \*/

### 9.3.3 PDU Definitions

*/\* partly omitted \*/*

```

id-DwPCH-LCR-Information-Cell-ReconfRqstTDD,
id-DwPCH-LCR-Information-ResourceStatusInd,
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,
id-FPACH-LCR-Information,
id-FPACH-LCR-Information-AuditRsp,
id-FPACH-LCR-InformationList-AuditRsp,
id-FPACH-LCR-InformationList-ResourceStatusInd,
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,
id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD,
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD,
id-PCH-Power-LCR-CTCH-SetupRqstTDD,
id-PCH-Power-LCR-CTCH-ReconfRqstTDD,
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD,
id-PICH-LCR-ParametersItem-CTCH-SetupRqstTDD,
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD,
id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD,
id-RL-InformationResponse-LCR-RL-SetupRspTDD,
id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD,
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,
id-TimeSlot,
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD,
id-TimeSlotLCR-CM-Rqst,
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,
id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD,
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD,
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD,
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-LCR-InformationModify-AddList,
id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD,
id-UL-SIRTarget,
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst,
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst,

```

```

id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Info-DM-Rqst,
id-PUSCH-Info-DM-Rsp,
id-PUSCH-Info-DM-Rprt,
id-RL-InformationResponse-LCR-RL-AdditionRspTDD,

```

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

```

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

```

```

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

```

OPTIONAL,

```

RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE          CRNC-CommunicationContextID
      PRESENCE mandatory }|
    { ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore          TYPE          RL-InformationResponse-RL-
      AdditionRspTDD PRESENCE optional }| -- Mandatory for 3.84Mcps TDD only
    { ID id-CriticalityDiagnostics              CRITICALITY ignore          TYPE          CriticalityDiagnostics
      PRESENCE optional },
    ...
}

```

```

RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-InformationResponse-LCR-RL-AdditionRspTDD CRITICALITY ignore          EXTENSION          RL-InformationResponse-LCR-RL-
      AdditionRspTDD PRESENCE mandatory }, --Mandatory for 1.28Mcps TDD only
    ...
}

```

RL-InformationResponse-LCR-RL-

```

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uL-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info,
    ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
    dCH-Information      DCH-Information-RL-AdditionRspTDD          OPTIONAL,
    dSCH-InformationResponseList DSCH-InformationResponseList-RL-AdditionRspTDD          OPTIONAL,
    uSCH-InformationResponseList USCH-InformationResponseList-RL-AdditionRspTDD          OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} }          OPTIONAL,
    ...
}

```

```

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication          DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    iE-Extensions                ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-Information-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining                    Combining-RL-AdditionRspTDD,
    non-Combining                Non-Combining-RL-AdditionRspTDD
}

Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                        RL-ID,
    iE-Extensions                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Non-Combining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse      DCH-InformationResponse,
    iE-Extensions                ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

Non-CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}

DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse  CRITICALITY ignore  TYPE DSCH-InformationResponse  PRESENCE mandatory }
}

USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-AdditionRspTDD }}

USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponse  CRITICALITY ignore  TYPE USCH-InformationResponse  PRESENCE mandatory }
}

```



```

RL-InformationResponse-LCR-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                               RL-ID,
    uL-TimeSlot-ISCP-InfoLCR            UL-TimeSlot-ISCP-Info,
    ul-PhysCH-SF-Variation              UL-PhysCH-SF-Variation,
    dCH-Information                     DCH-Information-RL-AdditionRspTDD OPTIONAL,
    dSCH-InformationResponseList        DSCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL,
    uSCH-InformationResponseList        USCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

/\* partly omitted \*/

### 9.3.6 Constant Definitions

/\* partly omitted \*/

id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID ::= 497
id-PUSCH-Info-DM-Rqst	ProtocolIE-ID ::= 505
id-PUSCH-Info-DM-Rsp	ProtocolIE-ID ::= 506
id-PUSCH-Info-DM-Rprt	ProtocolIE-ID ::= 507
id-InitDL-Power	ProtocolIE-ID ::= 509
id-cellSyncBurstRepetitionPeriod	ProtocolIE-ID ::= 511
id-ReportCharacteristicsType-OnModification	ProtocolIE-ID ::= 512
id-SFNFSNMeasurementValueInformation	ProtocolIE-ID ::= 513
id-SFNFSNMeasurementThresholdInformation	ProtocolIE-ID ::= 514
id-TUTRANGPSMeasurementValueInformation	ProtocolIE-ID ::= 515
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 516
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD	ProtocolIE-ID ::= 51

END

## CHANGE REQUEST

⌘ **25.433 CR 580** ⌘ rev **2** ⌘ Current version: **4.2.1** ⌘

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

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ SFN-SFN quality indication		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCS1-UEpos-lublur	<b>Date:</b>	⌘ November 2001
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-4
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>

<b>Reason for change:</b>	⌘ As TSG RAN WG4 has defined an accuracy for the SFN-SFN Observed Time Difference UTRAN measurement, there is no need to have a quality indication reported to the RNC: this measurement should be handled as all the other measurements for which an accuracy has been defined by RAN4 are currently handled.
<b>Summary of change:</b>	<p>⌘ R1: The SFN-SFN Quality IE are made optional in the SFN-SFN Measurement Value Information IE.</p> <p>Impact assessment towards the version 4.2.1 of the NBAP specification (previous version same release):  This CR has isolated impact on the functionality.  This CR has an impact under protocol point of view (Presence of an IE changed from Mandatory to Optional) and the functional point of view as it is possible now not to report a quality level for the measurement.  The impact can be considered isolated as it concerns only the SFN-SFN Observed Time Difference UTRAN measurement.</p>
<b>Consequences if not approved:</b>	⌘ If this CR is not approved, the specification will remain incorrect.

<b>Clauses affected:</b>	⌘ 9.2.1.53E, 9.3.4		
<b>Other specs affected:</b>	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	25.423 v 4.2.0 CR 530
<b>Other comments:</b>	⌘		

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.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://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

### 9.2.1.53E SFN-SFN Measurement Value Information

The SFN-SFN Measurement Value Information IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information</b>		1..<maxnoMeasN Cell>		
>UC-Id	M		9.2.1.65B	
>SFN-SFN	M		INTEGER(0..40961)	According to mapping in [22]. TBD by RAN4.
>SFN-SFN Quality	<u>MO</u>		INTEGER(0..16383)	Indicates the standard deviation of the SFN-SFN measurements.
>SFN-SFN Drift Rate	M		INTEGER(-16383..+16383)	Indicates the SFN-SFN drift rate in 1/16 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell.
>SFN-SFN Drift Rate Quality	M		INTEGER(0..16383)	Indicates the standard deviation of the SFN-SFN drift rate measurements.
>SFN-SFN Measurement Time Stamp	M		9.2.1.53D	
<b>Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information</b>		0..<maxnoMeasN Cell-1>		
>UC-Id	M		9.2.1.65B	

Range bound	Explanation
<i>maxnoMeasNCell</i>	Maximum number of neighbouring cells that can be measured on.

## 9.3.4 Information Element Definitions

UNCHANGED TEXT IS OMITTED

```

SFNSFNMeasurementValueInformation ::= SEQUENCE {
    successfulNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF
        SEQUENCE {
            uC-Id UC-Id,
            SFNSFN SFNSFN,
            SFNSFNQuality SFNSFNQuality OPTIONAL,
            SFNSFNDriftRate SFNSFNDriftRate,
            SFNSFNDriftRateQuality SFNSFNDriftRateQuality,
            SFNSFNTimeStamp SFNSFNTimeStamp,
            iE-Extensions ProtocolExtensionContainer { { SuccessfulNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs} } OPTIONAL,
            ...
        },
    unsuccessfulNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEQUENCE {
            uC-Id UC-Id,
            iE-Extensions ProtocolExtensionContainer { { UnsuccessfulNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs} } OPTIONAL,
            ...
        },
    iE-Extensions ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs} } OPTIONAL,
    ...
}

```

UNCHANGED TEXT IS OMITTED