TSG-RAN Meeting #26
Athen, Greece, 08-10 December 2004

RP-040477
Agenda item 7.3.4

Source: TSG-RAN WG2.

Title: CRs to 25.331 Rel-4 (onwards)

The following CRs are in RP-040477:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2449	-	Rel-4	ASN.1 clarification on Measurement Report for 1.28 Mcps TDD	F	4.15.0	4.16.0	R2-042592	LCRTDD-L23
25.331	2450	-	Rel-5	ASN.1 clarification on Measurement Report for 1.28 Mcps TDD	A	5.10.0	5.11.0	R2-042593	LCRTDD-L23
25.331	2451	-	Rel-6	ASN.1 clarification on Measurement Report for 1.28 Mcps TDD	A	6.3.0	6.4.0	R2-042594	LCRTDD-L23
25.331	2466	1	Rel-4	Missing OTDOA TDD related v4b0 extension in MEASUREMENT CONTROL	F	4.15.0	4.16.0	R2-042693	TEI4
25.331	2467	1	Rel-5	Missing OTDOA TDD related v4b0 extension in MEASUREMENT CONTROL	F	5.10.0	5.11.0	R2-042694	TEI5
25.331	2468	1	Rel-6	Missing OTDOA TDD related v4b0 extension in MEASUREMENT CONTROL	F	6.3.0	6.4.0	R2-042695	TEI6

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CHANGE REQUEST

⌘	**25.331** CR **2449**	⌘**rev**	**-**	⌘	Current version:	**4.15.0**	⌘

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 **X** Radio Access Network **X** Core Network ☐

Title:	⌘	ASN.1 clarification on Measurement Report for 1.28 Mcps TDD

Source:	⌘	RAN WG2

Work item code:	⌘	LCRTDD-L23		*Date:*	⌘	10 Nov. 2004

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:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	Regarding the naming of R4 non-critical extension "additionalMeasuredResults" in MEASUREMENT REPORT message,
		additionalMeasuredResults-LCR MeasuredResultsList-LCR-r4-ext OPTIONAL,
		both UE and RNC implementation may be misguided into incorrect ASN.1 IE setting and reading with measurement results. Actually, the only correct understanding is that both R4 measurement results and additional measurement results(if exists) shall be contained in the single IE "MeasuredResultsList-LCR-r4-ext", regardless of their presence ranking.

Summary of change:	⌘	One note was inserted in ASN description associated with R4 non-critical extension IE 'MeasuredResultsList-LCR-r4-ext'.

Consequences if not approved:	⌘	If not approved, and UE or RNC was implemented following the misguidance, i.e. sets and reads measurement results at/from the wrong place, this will lead to inter-operation failure given that 't-adv' was required to be reported.
		This clarification was for 1.28 Mcps TDD mode only.

Clauses affected:	⌘	11.3

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

Other comments:	⌘	

How to create CRs using this form:

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

```
MeasurementReport ::= SEQUENCE {
    -- Measurement IEs
        measurementIdentity     MeasurementIdentity,
        measuredResults                 MeasuredResults                     OPTIONAL,
        measuredResultsOnRACH           MeasuredResultsOnRACH               OPTIONAL,
        additionalMeasuredResults       MeasuredResultsList                 OPTIONAL,
        eventResults                    EventResults                        OPTIONAL,
    -- Non-critical extensions
        v390nonCriticalExtensions           SEQUENCE {
            measurementReport-v390ext       MeasurementReport-v390ext,
            laterNonCriticalExtensions      SEQUENCE {
                -- Container for additional R99 extensions
                measurementReport-r3-add-ext        BIT STRING      OPTIONAL,
                v4b0NonCriticalExtensions       SEQUENCE {
                    measurementReport-v4b0ext       MeasurementReport-v4b0ext-IEs,
                    -- Extension mechanism for non-Rel4 information
                    nonCriticalExtensions           SEQUENCE {}                      OPTIONAL
                }       OPTIONAL
            }   OPTIONAL
        }   OPTIONAL
}

MeasurementReport-v390ext ::= SEQUENCE {
        measuredResults-v390ext         MeasuredResults-v390ext             OPTIONAL
}

MeasurementReport-v4b0ext-IEs ::= SEQUENCE {
        interFreqEventResults-LCR       InterFreqEventResults-LCR-r4-ext        OPTIONAL,
        --additionalMeasuredResults-LCR shall contain measurement results and additional measurement
        --results list.
        additionalMeasuredResults-LCR   MeasuredResultsList-LCR-r4-ext          OPTIONAL,
        gsmOTDreferenceCell             PrimaryCPICH-Info                       OPTIONAL
}
```

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CHANGE REQUEST

⌘ **25.331 CR 2450** ⌘**rev** **-** ⌘ Current version: **5.10.0** ⌘

*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 **X** Radio Access Network **X** Core Network ☐

Title: ⌘	ASN.1 clarification on Measurement Report for 1.28 Mcps TDD	
Source: ⌘	RAN WG2	
Work item code: ⌘	LCRTDD-L23	***Date:*** ⌘ 10 Nov. 2004
Category: ⌘ **A**	Use one 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.	***Release:*** ⌘ *Rel-5* Use one of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change: ⌘	Regarding the naming of R4 non-critical extension "additionalMeasuredResults" in MEASUREMENT REPORT message, additionalMeasuredResults-LCR MeasuredResultsList-LCR-r4-ext OPTIONAL, both UE and RNC implementation may be misguided into incorrect ASN.1 IE setting and reading with measurement results. Actually, the only correct understanding is that both R4 measurement results and additional measurement results(if exists) shall be contained in the single IE "MeasuredResultsList-LCR-r4-ext", regardless of their presence ranking.
Summary of change: ⌘	One note was inserted in ASN description associated with R4 non-critical extension IE 'MeasuredResultsList-LCR-r4-ext'.
Consequences if not approved: ⌘	If not approved, and UE or RNC was implemented following the misguidance, i.e. sets and reads measurement results at/from the wrong place, this will lead to inter-operation failure given that 't-adv' was required to be reported. This clarification was for 1.28 Mcps TDD mode only.

Clauses affected: ⌘	11.3	

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

Other comments:	⌘	

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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:

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2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

```
MeasurementReport ::= SEQUENCE {
    -- Measurement IEs
        measurementIdentity     MeasurementIdentity,
        measuredResults                 MeasuredResults                         OPTIONAL,
        measuredResultsOnRACH           MeasuredResultsOnRACH                   OPTIONAL,
        additionalMeasuredResults       MeasuredResultsList                     OPTIONAL,
        eventResults                    EventResults                            OPTIONAL,
    -- Non-critical extensions
        v390nonCriticalExtensions           SEQUENCE {
            measurementReport-v390ext       MeasurementReport-v390ext,
            laterNonCriticalExtensions      SEQUENCE {
                -- Container for additional R99 extensions
                measurementReport-r3-add-ext        BIT STRING      OPTIONAL,
                v4b0NonCriticalExtensions       SEQUENCE {
                    measurementReport-v4b0ext       MeasurementReport-v4b0ext-IEs,
                    -- Extension mechanism for non-Rel4 information
                    v590NonCriticalExtensions   SEQUENCE {
                        measurementReport-v590ext       MeasurementReport-v590ext-IEs,
                        nonCriticalExtensions           SEQUENCE {}                 OPTIONAL
                    }                               OPTIONAL
                }                               OPTIONAL
            }                       OPTIONAL
        }                       OPTIONAL
}

MeasurementReport-v390ext ::= SEQUENCE {
        measuredResults-v390ext         MeasuredResults-v390ext                 OPTIONAL
}

MeasurementReport-v4b0ext-IEs ::= SEQUENCE {
    interFreqEventResults-LCR       InterFreqEventResults-LCR-r4-ext         OPTIONAL,
    --additionalMeasuredResults-LCR shall contain measurement results and additional measurement
    --results list.
    additionalMeasuredResults-LCR   MeasuredResultsList-LCR-r4-ext           OPTIONAL,
    gsmOTDreferenceCell             PrimaryCPICH-Info                        OPTIONAL
}

MeasurementReport-v590ext-IEs ::= SEQUENCE {
    measuredResults-v590ext             MeasuredResults-v590ext                 OPTIONAL
}
```

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **25.331** CR **2451** | ⌘**rev** | **-** | ⌘ | Current version: | **6.3.0** | ⌘ |

*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 **X** Radio Access Network **X** Core Network ☐

Title:	⌘	ASN.1 clarification on Measurement Report for 1.28 Mcps TDD

Source:	⌘	RAN WG2

Work item code:	⌘	LCRTDD-L23		*Date:* ⌘	10 Nov. 2004

Category:	⌘	**A**		*Release:* ⌘	*Rel-6*

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	Regarding the naming of R4 non-critical extension "additionalMeasuredResults" in MEASUREMENT REPORT message,

additionalMeasuredResults-LCR   MeasuredResultsList-LCR-r4-ext   OPTIONAL,

both UE and RNC implementation may be misguided into incorrect ASN.1 IE setting and reading with measurement results. Actually, the only correct understanding is that both R4 measurement results and additional measurement results(if exists) shall be contained in the single IE "MeasuredResultsList-LCR-r4-ext", regardless of their presence ranking.

Summary of change:	⌘	One note was inserted in ASN description associated with R4 non-critical extension IE 'MeasuredResultsList-LCR-r4-ext'.

Consequences if not approved:	⌘	If not approved, and UE or RNC was implemented following the misguidance, i.e. sets and reads measurement results at/from the wrong place, this will lead to inter-operation failure given that 't-adv' was required to be reported.
		This clarification was for 1.28 Mcps TDD mode only.

Clauses affected:	⌘	11.3

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

Other comments:	⌘	

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2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

```
MeasurementReport ::= SEQUENCE {
    -- Measurement IEs
        measurementIdentity     MeasurementIdentity,
        measuredResults                  MeasuredResults                          OPTIONAL,
        measuredResultsOnRACH            MeasuredResultsOnRACH                    OPTIONAL,
        additionalMeasuredResults        MeasuredResultsList                      OPTIONAL,
        eventResults                     EventResults                             OPTIONAL,
    -- Non-critical extensions
        v390nonCriticalExtensions           SEQUENCE {
            measurementReport-v390ext       MeasurementReport-v390ext,
            laterNonCriticalExtensions      SEQUENCE {
                -- Container for additional R99 extensions
                measurementReport-r3-add-ext          BIT STRING      OPTIONAL,
                v4b0NonCriticalExtensions        SEQUENCE {
                    measurementReport-v4b0ext        MeasurementReport-v4b0ext-IEs,
                    -- Extension mechanism for non-Rel4 information
                    v590NonCriticalExtensions    SEQUENCE {
                        measurementReport-v590ext        MeasurementReport-v590ext-IEs,
                        nonCriticalExtensions            SEQUENCE {}                        OPTIONAL
                    }                                OPTIONAL
                }                                OPTIONAL
            }                       OPTIONAL
        }                       OPTIONAL
}

MeasurementReport-v390ext ::= SEQUENCE {
        measuredResults-v390ext         MeasuredResults-v390ext                  OPTIONAL
}

MeasurementReport-v4b0ext-IEs ::= SEQUENCE {
    interFreqEventResults-LCR       InterFreqEventResults-LCR-r4-ext         OPTIONAL,
    --additionalMeasuredResults-LCR shall contain measurement results and additional measurement
    --results list.
    additionalMeasuredResults-LCR   MeasuredResultsList-LCR-r4-ext           OPTIONAL,
    gsmOTDreferenceCell             PrimaryCPICH-Info                        OPTIONAL
}

MeasurementReport-v590ext-IEs ::= SEQUENCE {
    measuredResults-v590ext         MeasuredResults-v590ext                  OPTIONAL
}
```

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **25.331** CR **2466** | ⌘ **rev** | **1** | ⌘ | Current version: | **4.f.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 **X** Radio Access Network **X** Core Network ☐

Title: ⌘	Missing OTDOA TDD related v4b0 extension in MEASUREMENT CONTROL	
Source: ⌘	RAN WG2	
Work item code: ⌘ TEI4	**Date:** ⌘ Nov 2004	

Category: ⌘ **F**

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.

Release: ⌘ Rel-4

Use <u>one</u> of the following releases:
Ph2   (GSM Phase 2)
R96   (Release 1996)
R97   (Release 1997)
R98   (Release 1998)
R99   (Release 1999)
Rel-4   (Release 4)
Rel-5   (Release 5)
Rel-6   (Release 6)
Rel-7   (Release 7)

Reason for change: ⌘	One ASN.1 line with the IE "`MeasurementControl-v4b0ext-IEs`" is missing in the MEASUREMENT CONTROL message. The missing line was unintentionally deleted at the update of the TS 25.331 from V5.8.0 to V5.9.0.
Summary of change: ⌘	The missing ASN.1 line is deleted from the Rel-4 version of the specification so that Rel-4/Rel-5 will regain backwards compatibility.
Consequences if not approved: ⌘	The R5 version of the MEASUREMENT CONTROL message would not be compatible with the corresponding R4 version of the message. Consequently, the "r3 branch" of this message could not be used when R4 or R5 information need to be sent. **Impact Analysis:** UTRANs requiring this IE (used for UE Positioning OTDOA AssistanceData for TTD) will have to use the later-than-r3 (r4) branch of the message. Release 4 UEs implementing ASN.1 later than v4b0 will have to implement the change.

Clauses affected: ⌘	11.2	

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

Other comments: ⌘	

```
-- **************************************************
--
-- MEASUREMENT CONTROL
--
-- **************************************************

MeasurementControl ::= CHOICE {
    -- The Rel-4 functionality of UE Positioning OTDOA AssistanceData for TDD is only available
    -- in the later-than-r3 branch of this message (i.e. through the use of the IE
    -- ue-Positioning-OTDOA-AssistanceData-r4)
    r3                                 SEQUENCE {
        measurementControl-r3          MeasurementControl-r3-IEs,
        v390nonCriticalExtensions          SEQUENCE {
            measurementControl-v390ext     MeasurementControl-v390ext,
            v3a0NonCriticalExtensions          SEQUENCE {
                measurementControl-v3a0ext         MeasurementControl-v3a0ext,
                laterNonCriticalExtensions     SEQUENCE {
                    -- Container for additional R99 extensions
                    measurementControl-r3-add-ext      BIT STRING  OPTIONAL,
                    v4b0NonCriticalExtensions          SEQUENCE{
                        -- The content of the v4b0 non-critical extension has been removed. If sent
                        -- to a UE of AS release 4, the UE behaviour is unspecified. A UE of AS
                        -- release 5 onward shall comply with the v4b0 and later extensions in this
                        -- branch of the message.
                        measurementControl-v4b0ext         MeasurementControl-v4b0ext-IEs,
                        nonCriticalExtensions                  SEQUENCE {}                 OPTIONAL
                    }                          OPTIONAL
                }                      OPTIONAL
            }                      OPTIONAL
        }                      OPTIONAL
    },
    later-than-r3                      SEQUENCE {
        rrc-TransactionIdentifier      RRC-TransactionIdentifier,
        criticalExtensions             CHOICE {
            r4                             SEQUENCE {
                measurementControl-r4          MeasurementControl-r4-IEs,
                v4d0NonCriticalExtensions          SEQUENCE {
                    -- Container for adding non critical extensions after freezing REL-5
                    measurementControl-r4-add-ext      BIT STRING     OPTIONAL,
                    nonCriticalExtensions          SEQUENCE {}    OPTIONAL
                }          OPTIONAL
            },
            criticalExtensions             SEQUENCE {}
        }
    }
}

MeasurementControl-r3-IEs ::= SEQUENCE {
    -- User equipment IEs
        rrc-TransactionIdentifier      RRC-TransactionIdentifier,
    -- Measurement IEs
        measurementIdentity    MeasurementIdentity,
        -- TABULAR: The measurement type is included in MeasurementCommand.
        measurementCommand             MeasurementCommand,
        measurementReportingMode       MeasurementReportingMode           OPTIONAL,
        additionalMeasurementList      AdditionalMeasurementID-List       OPTIONAL,
    -- Physical channel IEs
        dpch-CompressedModeStatusInfo  DPCH-CompressedModeStatusInfo      OPTIONAL
}

MeasurementControl-v4b0ext-IEs ::= SEQUENCE {
    ue-Positioning-OTDOA-AssistanceData-r4ext   UE-Positioning-OTDOA-AssistanceData-r4ext   OPTIONAL
}

MeasurementControl-v390ext ::= SEQUENCE {
        ue-Positioning-Measurement-v390ext     UE-Positioning-Measurement-v390ext  OPTIONAL
}

MeasurementControl-v3a0ext ::= SEQUENCE {
    sfn-Offset-Validity            SFN-Offset-Validity    OPTIONAL
}

MeasurementControl-r4-IEs ::= SEQUENCE {
    -- Measurement IEs
        measurementIdentity    MeasurementIdentity,
```

```
        -- TABULAR: The measurement type is included in measurementCommand.
    measurementCommand              MeasurementCommand-r4,
    measurementReportingMode        MeasurementReportingMode          OPTIONAL,
    additionalMeasurementList       AdditionalMeasurementID-List      OPTIONAL,
-- Physical channel IEs
    dpch-CompressedModeStatusInfo   DPCH-CompressedModeStatusInfo     OPTIONAL
}
```

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **25.331** CR **2467** | ⌘**rev** | **1** | ⌘ | Current version: | **5.a.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 **[X]** Core Network [ ]

Title: ⌘	Missing OTDOA TDD related v4b0 extension in MEASUREMENT CONTROL	
Source: ⌘	RAN WG2	
Work item code: ⌘	TEI5	***Date:*** ⌘ Nov 2004
Category: ⌘ **F**		***Release:*** ⌘ Rel-5

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
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Use <u>one</u> of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change: ⌘	One ASN.1 line with the IE "`MeasurementControl-v4b0ext-IEs`" is missing in the MEASUREMENT CONTROL message. The missing line was unintentionally deleted at the update of the TS 25.331 from V5.8.0 to V5.9.0.
Summary of change: ⌘	The missing ASN.1 line is deleted from the Rel-4 version of the specification so that Rel-4/Rel-5 will regain backwards compatibility.
Consequences if not approved: ⌘	The R5 version of the MEASUREMENT CONTROL message would not be compatible with the corresponding R4 version of the message. Consequently, the "r3 branch" of this message could not be used when R4 or R5 information need to be sent. **Impact Analysis:** UTRANs requiring this IE (used for UE Positioning OTDOA AssistanceData for TTD) will have to use the later-than-r3 (r4) branch of the message. Release 4 UEs implementing ASN.1 later than v4b0 will have to implement the change.
Clauses affected: ⌘	11.2

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

Other comments: ⌘	

```
-- **************************************************
--
-- MEASUREMENT CONTROL
--
-- **************************************************

MeasurementControl ::= CHOICE {
    -- The Rel-4 functionality of UE Positioning OTDOA AssistanceData TTD is only available
    -- in the later-than-r3 branch of this message (i.e. through the use of the IE
    -- ue-Positioning-OTDOA-AssistanceData-r4)
    r3                              SEQUENCE {
        measurementControl-r3           MeasurementControl-r3-IEs,
        v390nonCriticalExtensions       SEQUENCE {
            measurementControl-v390ext      MeasurementControl-v390ext,
            v3a0NonCriticalExtensions       SEQUENCE {
                measurementControl-v3a0ext      MeasurementControl-v3a0ext,
                laterNonCriticalExtensions      SEQUENCE {
                    -- Container for additional R99 extensions
                    measurementControl-r3-add-ext       BIT STRING  OPTIONAL,
                    v4b0NonCriticalExtensions           SEQUENCE{
                        -- The content of the v4b0 non-critical extension has been removed. If sent
                        -- to a UE of AS release 4, the UE behaviour is unspecified. A UE of AS
                        -- release 5 onward shall comply with the v4b0 and later extensions in this
                        -- branch of the message.
                        v590NonCriticalExtensions       SEQUENCE {
                            measurementControl-v590ext      MeasurementControl-v590ext-IEs,
                            nonCriticalExtensions               SEQUENCE {}    OPTIONAL
                        }                                   OPTIONAL
                    }                               OPTIONAL
                }                           OPTIONAL
            }                       OPTIONAL
        }                   OPTIONAL
    },
    later-than-r3                   SEQUENCE {
        rrc-TransactionIdentifier       RRC-TransactionIdentifier,
        criticalExtensions              CHOICE {
            r4                              SEQUENCE {
                measurementControl-r4           MeasurementControl-r4-IEs,
                v4d0NonCriticalExtensions       SEQUENCE {
                    -- Container for adding non critical extensions after freezing REL-5
                    measurementControl-r4-add-ext       BIT STRING      OPTIONAL,
                    v590NonCriticalExtensions       SEQUENCE{
                        measurementControl-v590ext      MeasurementControl-v590ext-IEs,
                        nonCriticalExtensions               SEQUENCE {}    OPTIONAL
                    } OPTIONAL
                } OPTIONAL
            },
            criticalExtensions              SEQUENCE {}
        }
    }
}

MeasurementControl-r3-IEs ::= SEQUENCE {
    -- User equipment IEs
    rrc-TransactionIdentifier       RRC-TransactionIdentifier,
    -- Measurement IEs
    measurementIdentity     MeasurementIdentity,
    -- TABULAR: The measurement type is included in MeasurementCommand.
    measurementCommand              MeasurementCommand,
    measurementReportingMode        MeasurementReportingMode            OPTIONAL,
    additionalMeasurementList       AdditionalMeasurementID-List        OPTIONAL,
    -- Physical channel IEs
    dpch-CompressedModeStatusInfo   DPCH-CompressedModeStatusInfo       OPTIONAL
}

MeasurementControl-v4b0ext-IEs ::= SEQUENCE {
    ue-Positioning-OTDOA-AssistanceData-r4ext   UE-Positioning-OTDOA-AssistanceData-r4ext   OPTIONAL
}

MeasurementControl-v390ext ::= SEQUENCE {
    ue-Positioning-Measurement-v390ext      UE-Positioning-Measurement-v390ext  OPTIONAL
}

MeasurementControl-v3a0ext ::= SEQUENCE {
    sfn-Offset-Validity             SFN-Offset-Validity     OPTIONAL
}
```

```
MeasurementControl-r4-IEs ::= SEQUENCE {
    -- Measurement IEs
        measurementIdentity     MeasurementIdentity,
        -- TABULAR: The measurement type is included in measurementCommand.
        measurementCommand          MeasurementCommand-r4,
        measurementReportingMode    MeasurementReportingMode        OPTIONAL,
        additionalMeasurementList   AdditionalMeasurementID-List    OPTIONAL,
    -- Physical channel IEs
        dpch-CompressedModeStatusInfo  DPCH-CompressedModeStatusInfo   OPTIONAL
}

MeasurementControl-v590ext-IEs ::= SEQUENCE {
    measurementCommand-v590ext          CHOICE {
        -- the choice "intra-frequency" shall be used for the case of intra-frequency measurement,
        -- as well as when intra-frequency events are configured for inter-frequency measurement
        intra-frequency                 Intra-FreqEventCriteriaList-v590ext,
        inter-frequency                 Inter-FreqEventCriteriaList-v590ext
    }       OPTIONAL,
    intraFreqReportingCriteria-1b-r5        IntraFreqReportingCriteria-1b-r5        OPTIONAL,
    intraFreqEvent-1d-r5                    IntraFreqEvent-1d-r5                    OPTIONAL,
    -- most significant part of "RRC transaction identifier" (MSP),
    -- "RRC transaction identifier" = rrc-TransactionIdentifier-MSP-v590ext * 4 +
    -- rrc-TransactionIdentifier
    rrc-TransactionIdentifier-MSP-v590ext  RRC-TransactionIdentifier
}
```

CR-Form-v7.1

CHANGE REQUEST

| ⌘ | **25.331 CR 2468** | ⌘**rev** | **1** | ⌘ | Current version: | **6.3.0** | ⌘ |

*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 **X** Radio Access Network **X** Core Network ☐

Title: ⌘	Missing OTDOA TDD related v4b0 extension in MEASUREMENT CONTROL	
Source: ⌘	RAN WG2	
Work item code: ⌘	TEI6	***Date:*** ⌘ Nov 2004
Category: ⌘ **F**		***Release:*** ⌘ Rel-6

Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
F (correction)	Ph2 (GSM Phase 2)
A (corresponds to a correction in an earlier release)	R96 (Release 1996)
B (addition of feature),	R97 (Release 1997)
C (functional modification of feature)	R98 (Release 1998)
D (editorial modification)	R99 (Release 1999)
Detailed explanations of the above categories can	Rel-4 (Release 4)
be found in 3GPP TR 21.900.	Rel-5 (Release 5)
	Rel-6 (Release 6)
	Rel-7 (Release 7)

Reason for change: ⌘	One ASN.1 line with the IE "`MeasurementControl-v4b0ext-IEs`" is missing in the MEASUREMENT CONTROL message. The missing line was unintentionally deleted at the update of the TS 25.331 from V5.8.0 to V5.9.0.
Summary of change: ⌘	The missing ASN.1 line is deleted from the Rel-4 version of the specification so that Rel-4/Rel-5 will regain backwards compatibility.
Consequences if not approved: ⌘	The R5 version of the MEASUREMENT CONTROL message would not be compatible with the corresponding R4 version of the message. Consequently, the "r3 branch" of this message could not be used when R4 or R5 information need to be sent. **Impact Analysis:** UTRANs requiring this IE (used for UE Positioning OTDOA AssistanceData for TTD) will have to use the later-than-r3 (r4) branch of the message. Release 4 UEs implementing ASN.1 later than v4b0 will have to implement the change.

Clauses affected: ⌘	11.2

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

Other comments: ⌘	

```
-- **************************************************
--
-- MEASUREMENT CONTROL
--
-- **************************************************

MeasurementControl ::= CHOICE {
    -- The Rel-4 functionality of UE Positioning OTDOA AssistanceData TTD is only available
    -- in the later-than-r3 branch of this message (i.e. through the use of the IE
    -- ue-Positioning-OTDOA-AssistanceData-r4)
    r3                              SEQUENCE {
        measurementControl-r3        MeasurementControl-r3-IEs,
        v390nonCriticalExtensions       SEQUENCE {
            measurementControl-v390ext      MeasurementControl-v390ext,
            v3a0NonCriticalExtensions          SEQUENCE {
                measurementControl-v3a0ext        MeasurementControl-v3a0ext,
                laterNonCriticalExtensions       SEQUENCE {
                    -- Container for additional R99 extensions
                    measurementControl-r3-add-ext        BIT STRING  OPTIONAL,
                    v4b0NonCriticalExtensions             SEQUENCE{
                        -- The content of the v4b0 non-critical extension has been removed. If sent
                        -- to a UE of AS release 4, the UE behaviour is unspecified. A UE of AS
                        -- release 5 onward shall comply with the v4b0 and later extensions in this
                        -- branch of the message.
                        measurementControl-v4b0ext          MeasurementControl-v4b0ext-IEs,
                        v590NonCriticalExtensions           SEQUENCE {
                            measurementControl-v590ext      MeasurementControl-v590ext-IEs,
                            nonCriticalExtensions                   SEQUENCE {}    OPTIONAL
                        }   OPTIONAL
                    }   OPTIONAL
                }   OPTIONAL
            }   OPTIONAL
        }   OPTIONAL
    },
    later-than-r3                   SEQUENCE {
        rrc-TransactionIdentifier       RRC-TransactionIdentifier,
        criticalExtensions              CHOICE {
            r4                          SEQUENCE {
                measurementControl-r4           MeasurementControl-r4-IEs,
                v4d0NonCriticalExtensions           SEQUENCE {
                    -- Container for adding non critical extensions after freezing REL-5
                    measurementControl-r4-add-ext        BIT STRING      OPTIONAL,
                    v590NonCriticalExtensions        SEQUENCE{
                        measurementControl-v590ext       MeasurementControl-v590ext-IEs,
                        nonCriticalExtensions            SEQUENCE {}     OPTIONAL
                    }   OPTIONAL
                }   OPTIONAL
            },
            criticalExtensions              SEQUENCE {}
        }
    }
}

MeasurementControl-r3-IEs ::= SEQUENCE {
    -- User equipment IEs
    rrc-TransactionIdentifier       RRC-TransactionIdentifier,
    -- Measurement IEs
    measurementIdentity     MeasurementIdentity,
    -- TABULAR: The measurement type is included in MeasurementCommand.
    measurementCommand          MeasurementCommand,
    measurementReportingMode        MeasurementReportingMode            OPTIONAL,
    additionalMeasurementList       AdditionalMeasurementID-List        OPTIONAL,
    -- Physical channel IEs
    dpch-CompressedModeStatusInfo   DPCH-CompressedModeStatusInfo       OPTIONAL
}

MeasurementControl-v4b0ext-IEs ::= SEQUENCE {
    ue-Positioning-OTDOA-AssistanceData-r4ext    UE-Positioning-OTDOA-AssistanceData-r4ext   OPTIONAL
}

MeasurementControl-v390ext ::= SEQUENCE {
    ue-Positioning-Measurement-v390ext      UE-Positioning-Measurement-v390ext  OPTIONAL
}

MeasurementControl-v3a0ext ::= SEQUENCE {
    sfn-Offset-Validity             SFN-Offset-Validity     OPTIONAL
```

```
}

MeasurementControl-r4-IEs ::= SEQUENCE {
    -- Measurement IEs
        measurementIdentity     MeasurementIdentity,
        -- TABULAR: The measurement type is included in measurementCommand.
        measurementCommand          MeasurementCommand-r4,
        measurementReportingMode        MeasurementReportingMode        OPTIONAL,
        additionalMeasurementList       AdditionalMeasurementID-List        OPTIONAL,
    -- Physical channel IEs
        dpch-CompressedModeStatusInfo   DPCH-CompressedModeStatusInfo       OPTIONAL
}

MeasurementControl-v590ext-IEs ::= SEQUENCE {
    measurementCommand-v590ext          CHOICE {
        -- the choice "intra-frequency" shall be used for the case of intra-frequency measurement,
        -- as well as when intra-frequency events are configured for inter-frequency measurement
        intra-frequency                 Intra-FreqEventCriteriaList-v590ext,
        inter-frequency                 Inter-FreqEventCriteriaList-v590ext
    }       OPTIONAL,
    intraFreqReportingCriteria-1b-r5        IntraFreqReportingCriteria-1b-r5        OPTIONAL,
    intraFreqEvent-1d-r5                 IntraFreqEvent-1d-r5                    OPTIONAL,
    -- most significant part of "RRC transaction identifier" (MSP),
    -- "RRC transaction identifier" = rrc-TransactionIdentifier-MSP-v590ext * 4 +
    -- rrc-TransactionIdentifier
    rrc-TransactionIdentifier-MSP-v590ext   RRC-TransactionIdentifier
}
```