

TSG-RAN Meeting #28
Quebec, Canada, 01-03 June 2005

RP-050324
agenda item 8.12

Source: TSG-RAN WG2.

Subject: 25.331 on LCR TDD correction (Rel-6 CR)

The following CR is in RP-050324:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2555	-	Rel-6	Closed-Loop Power Control Improvements for 1.28 Mcps TDD – ASN1 Corrections	F	6.5.0	6.6.0	R2-051178	LCRTDD-L23

CHANGE REQUEST

25.331 CR 2555 # rev - # Current version: 6.5.0

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:	# Closed-Loop Power Control Improvements for 1.28 Mcps TDD – ASN1 Corrections		
Source:	# RAN WG2		
Work item code:	# LCRTDD-L23	Date:	# 23/02/2005
Category:	# F	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:	# A CR to 25.331 was agreed at RAN#27 adding BEACON-PL-EST . However this IE was only included in Release 6 ASN.1 Optional Extensions and not in all R6 Extensions.
Summary of change:	# ASN.1 is changed so that it is included in R6 extensions as well as in v6xy extensions
Consequences if not approved:	# Closed-Loop Power Control Improvements for 1.28 Mcps TDD might not be correctly implemented.

Clauses affected:	# 11.2						
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;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N	#	X	#	
Y	N						
#	X						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Test specifications	#	X	#			
#	X						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> O&M Specifications	#	X	#			
#	X						
Other comments:	# Impacts TDD 1.28 Mcps only						

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.

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

```

-- *****
--
-- CELL UPDATE CONFIRM
--
-- *****

CellUpdateConfirm ::= CHOICE {
  r3
    SEQUENCE {
      cellUpdateConfirm-r3          CellUpdateConfirm-r3-IEs,
      v3a0NonCriticalExtensions     SEQUENCE {
        cellUpdateConfirm-v3a0ext   CellUpdateConfirm-v3a0ext,
        laterNonCriticalExtensions  SEQUENCE {
          -- Container for additional R99 extensions
          cellUpdateConfirm-r3-add-ext BIT STRING OPTIONAL,
          v4b0NonCriticalExtensions   SEQUENCE {
            cellUpdateConfirm-v4b0ext CellUpdateConfirm-v4b0ext-IEs,
            v590NonCriticalExtensions SEQUENCE {
              cellUpdateConfirm-v590ext CellUpdateConfirm-v590ext-IEs,
              v6xyNonCriticalExtensions SEQUENCE {
                cellUpdateConfirm-v6xyext CellUpdateConfirm-v6xyext-IEs,
                nonCriticalExtensions    SEQUENCE {} OPTIONAL
              } OPTIONAL
            } OPTIONAL
          } OPTIONAL
        } OPTIONAL
      } OPTIONAL
    } OPTIONAL
  },
  later-than-r3
    SEQUENCE {
      rrc-TransactionIdentifier      RRC-TransactionIdentifier,
      criticalExtensions             CHOICE {
        r4
          SEQUENCE {
            cellUpdateConfirm-r4      CellUpdateConfirm-r4-IEs,
            v4d0NonCriticalExtensions SEQUENCE {
              -- Container for adding non critical extensions after freezing REL-5
              cellUpdateConfirm-r4-add-ext BIT STRING OPTIONAL,
              v590NonCriticalExtensions  SEQUENCE {
                cellUpdateConfirm-v590ext CellUpdateConfirm-v590ext-IEs,
                v6xyNonCriticalExtensions SEQUENCE {
                  cellUpdateConfirm-v6xyext CellUpdateConfirm-v6xyext-IEs,
                  nonCriticalExtensions    SEQUENCE {} OPTIONAL
                } OPTIONAL
              } OPTIONAL
            } OPTIONAL
          } OPTIONAL
        },
        criticalExtensions           CHOICE {
          r5
            SEQUENCE {
              cellUpdateConfirm-r5      CellUpdateConfirm-r5-IEs,
              -- Container for adding non critical extensions after freezing REL-6
              cellUpdateConfirm-r5-add-ext BIT STRING OPTIONAL,
              v6xyNonCriticalExtensions SEQUENCE {
                cellUpdateConfirm-v6xyext CellUpdateConfirm-v6xyext-IEs,
                nonCriticalExtensions    SEQUENCE {} OPTIONAL
              } OPTIONAL
            },
            criticalExtensions         CHOICE {
              r6
                SEQUENCE {
                  cellUpdateConfirm-r6      CellUpdateConfirm-r6-IEs,
                  -- Container for adding non critical extensions after freezing REL-7
                  cellUpdateConfirm-r6-add-ext BIT STRING OPTIONAL,
                  nonCriticalExtensions    SEQUENCE {} OPTIONAL
                },
                criticalExtensions       SEQUENCE {}
            }
          }
        }
      }
    }
  }
}

CellUpdateConfirm-r3-IEs ::= SEQUENCE {
  -- User equipment IES
  rrc-TransactionIdentifier      RRC-TransactionIdentifier,
  integrityProtectionModeInfo    IntegrityProtectionModeInfo      OPTIONAL,
  cipheringModeInfo              CipheringModeInfo                    OPTIONAL,
  activationTime                  ActivationTime                        OPTIONAL,
  new-U-RNTI                      U-RNTI                              OPTIONAL,
  new-C-RNTI                      C-RNTI                              OPTIONAL,
  rrc-StateIndicator              RRC-StateIndicator,

```

```

    utran-DRX-CycleLengthCoeff      UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
    rlc-Re-establishIndicatorRb2-3or4  BOOLEAN,
    rlc-Re-establishIndicatorRb5orAbove  BOOLEAN,
-- CN information elements
    cn-InformationInfo              CN-InformationInfo                OPTIONAL,
-- UTRAN mobility IES
    ura-Identity                    URA-Identity                        OPTIONAL,
-- Radio bearer IES
    rb-InformationReleaseList        RB-InformationReleaseList          OPTIONAL,
    rb-InformationReconfigList       RB-InformationReconfigList         OPTIONAL,
    rb-InformationAffectedList       RB-InformationAffectedList         OPTIONAL,
    dl-CounterSynchronisationInfo    DL-CounterSynchronisationInfo     OPTIONAL,
-- Transport channel IES
    ul-CommonTransChInfo            UL-CommonTransChInfo              OPTIONAL,
    ul-deletedTransChInfoList       UL-DeletedTransChInfoList         OPTIONAL,
    ul-AddReconfTransChInfoList     UL-AddReconfTransChInfoList       OPTIONAL,
    modeSpecificTransChInfo         CHOICE {
        fdd                          SEQUENCE {
            cpch-SetID                CPCH-SetID                        OPTIONAL,
            addReconfTransChDRAC-Info  DRAC-StaticInformationList        OPTIONAL
        },
        tdd                          NULL
    },
    dl-CommonTransChInfo            DL-CommonTransChInfo              OPTIONAL,
    dl-DeletedTransChInfoList       DL-DeletedTransChInfoList         OPTIONAL,
    dl-AddReconfTransChInfoList     DL-AddReconfTransChInfoList       OPTIONAL,
-- Physical channel IES
    frequencyInfo                   FrequencyInfo                       OPTIONAL,
    maxAllowedUL-TX-Power           MaxAllowedUL-TX-Power              OPTIONAL,
    ul-ChannelRequirement           UL-ChannelRequirement              OPTIONAL,
    modeSpecificPhysChInfo         CHOICE {
        fdd                          SEQUENCE {
            dl-PDSCH-Information      DL-PDSCH-Information              OPTIONAL
        },
        tdd                          NULL
    },
    dl-CommonInformation            DL-CommonInformation              OPTIONAL,
    dl-InformationPerRL-List        DL-InformationPerRL-List          OPTIONAL
}

CellUpdateConfirm-v3a0ext ::= SEQUENCE {
    new-DSCH-RNTI                  DSCH-RNTI                          OPTIONAL
}

CellUpdateConfirm-v4b0ext-IES ::= SEQUENCE {
-- Physical channel IES
-- ssdt-UL extends SSdT-Information, which is included in
-- DL-CommonInformation. FDD only.
    ssdt-UL-r4                      SSdT-UL                              OPTIONAL,
-- The order of the RLs in IE cell-id-PerRL-List is the same as
-- in IE DL-InformationPerRL-List included in this message
    cell-id-PerRL-List              CellIdentity-PerRL-List              OPTIONAL
}

CellUpdateConfirm-v590ext-IES ::= SEQUENCE {
-- Physical channel IES
    dl-TPC-PowerOffsetPerRL-List    DL-TPC-PowerOffsetPerRL-List        OPTIONAL
}

CellUpdateConfirm-r4-IES ::= SEQUENCE {
-- User equipment IES
    integrityProtectionModeInfo     IntegrityProtectionModeInfo         OPTIONAL,
    cipheringModeInfo               CipheringModeInfo                    OPTIONAL,
    activationTime                   ActivationTime                        OPTIONAL,
    new-U-RNTI                       U-RNTI                              OPTIONAL,
    new-C-RNTI                       C-RNTI                              OPTIONAL,
    new-DSCH-RNTI                   DSCH-RNTI                           OPTIONAL,
    rrc-StateIndicator              RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff      UTRAN-DRX-CycleLengthCoefficient    OPTIONAL,
    rlc-Re-establishIndicatorRb2-3or4  BOOLEAN,
    rlc-Re-establishIndicatorRb5orAbove  BOOLEAN,
-- CN information elements
    cn-InformationInfo              CN-InformationInfo                OPTIONAL,
-- UTRAN mobility IES
    ura-Identity                    URA-Identity                        OPTIONAL,
-- Radio bearer IES
    rb-InformationReleaseList        RB-InformationReleaseList          OPTIONAL,
    rb-InformationReconfigList       RB-InformationReconfigList-r4      OPTIONAL,
    rb-InformationAffectedList       RB-InformationAffectedList         OPTIONAL,
    dl-CounterSynchronisationInfo    DL-CounterSynchronisationInfo     OPTIONAL
}

```

```

-- Transport channel IEs
  ul-CommonTransChInfo          UL-CommonTransChInfo-r4          OPTIONAL,
  ul-deletedTransChInfoList     UL-DeletedTransChInfoList        OPTIONAL,
  ul-AddReconfTransChInfoList   UL-AddReconfTransChInfoList       OPTIONAL,
  modeSpecificTransChInfo       CHOICE {
    fdd                          SEQUENCE {
      cpch-SetID                 CPCH-SetID                 OPTIONAL,
      addReconfTransChDRAC-Info  DRAC-StaticInformationList  OPTIONAL
    },
    tdd                          NULL
  },
  dl-CommonTransChInfo          DL-CommonTransChInfo-r4          OPTIONAL,
  dl-DeletedTransChInfoList     DL-DeletedTransChInfoList        OPTIONAL,
  dl-AddReconfTransChInfoList   DL-AddReconfTransChInfoList-r4   OPTIONAL,
-- Physical channel IEs
  frequencyInfo                 FrequencyInfo                     OPTIONAL,
  maxAllowedUL-TX-Power         MaxAllowedUL-TX-Power            OPTIONAL,
  ul-ChannelRequirement         UL-ChannelRequirement-r4        OPTIONAL,
  modeSpecificPhysChInfo       CHOICE {
    fdd                          SEQUENCE {
      dl-PDSCH-Information       DL-PDSCH-Information       OPTIONAL
    },
    tdd                          NULL
  },
  dl-CommonInformation          DL-CommonInformation-r4         OPTIONAL,
  dl-InformationPerRL-List      DL-InformationPerRL-List-r4     OPTIONAL
}

CellUpdateConfirm-r5-IEs ::= SEQUENCE {
-- User equipment IEs
  integrityProtectionModeInfo   IntegrityProtectionModeInfo     OPTIONAL,
  cipheringModeInfo             CipheringModeInfo                OPTIONAL,
  activationTime                 ActivationTime                    OPTIONAL,
  new-U-RNTI                     U-RNTI                          OPTIONAL,
  new-C-RNTI                     C-RNTI                          OPTIONAL,
  new-DSCH-RNTI                 DSCH-RNTI                       OPTIONAL,
  new-H-RNTI                     H-RNTI                          OPTIONAL,
  rrc-StateIndicator            RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff    UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
  rlc-Re-establishIndicatorRb2-3or4  BOOLEAN,
  rlc-Re-establishIndicatorRb5orAbove  BOOLEAN,
-- CN information elements
  cn-InformationInfo            CN-InformationInfo              OPTIONAL,
-- UTRAN mobility IEs
  ura-Identity                  URA-Identity                    OPTIONAL,
-- Radio bearer IEs
  rb-InformationReleaseList     RB-InformationReleaseList       OPTIONAL,
  rb-InformationReconfigList    RB-InformationReconfigList-r5   OPTIONAL,
  rb-InformationAffectedList    RB-InformationAffectedList-r5   OPTIONAL,
  dl-CounterSynchronisationInfo DL-CounterSynchronisationInfo-r5 OPTIONAL,
-- Transport channel IEs
  ul-CommonTransChInfo          UL-CommonTransChInfo-r4          OPTIONAL,
  ul-deletedTransChInfoList     UL-DeletedTransChInfoList        OPTIONAL,
  ul-AddReconfTransChInfoList   UL-AddReconfTransChInfoList       OPTIONAL,
  modeSpecificTransChInfo       CHOICE {
    fdd                          SEQUENCE {
      cpch-SetID                 CPCH-SetID                 OPTIONAL,
      addReconfTransChDRAC-Info  DRAC-StaticInformationList  OPTIONAL
    },
    tdd                          NULL
  },
  dl-CommonTransChInfo          DL-CommonTransChInfo-r4          OPTIONAL,
  dl-DeletedTransChInfoList     DL-DeletedTransChInfoList-r5     OPTIONAL,
  dl-AddReconfTransChInfoList   DL-AddReconfTransChInfoList-r5   OPTIONAL,
-- Physical channel IEs
  frequencyInfo                 FrequencyInfo                     OPTIONAL,
  maxAllowedUL-TX-Power         MaxAllowedUL-TX-Power            OPTIONAL,
  ul-ChannelRequirement         UL-ChannelRequirement-r5        OPTIONAL,
  modeSpecificPhysChInfo       CHOICE {
    fdd                          SEQUENCE {
      dl-PDSCH-Information       DL-PDSCH-Information       OPTIONAL
    },
    tdd                          NULL
  },
  dl-HSPDSCH-Information        DL-HSPDSCH-Information          OPTIONAL,
  dl-CommonInformation          DL-CommonInformation-r5         OPTIONAL,
  dl-InformationPerRL-List      DL-InformationPerRL-List-r5     OPTIONAL
}

```

```

CellUpdateConfirm-r6-IEs ::= SEQUENCE {
  -- User equipment IES
  integrityProtectionModeInfo    IntegrityProtectionModeInfo    OPTIONAL,
  cipheringModeInfo              CipheringModeInfo                OPTIONAL,
  activationTime                  ActivationTime                    OPTIONAL,
  new-U-RNTI                      U-RNTI                          OPTIONAL,
  new-C-RNTI                      C-RNTI                          OPTIONAL,
  new-DSCH-RNTI                  DSCH-RNTI                       OPTIONAL,
  new-H-RNTI                      H-RNTI                          OPTIONAL,
  new-E-RNTI                      E-RNTI                          OPTIONAL,
  rrc-StateIndicator              RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff      UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
  rlc-Re-establishIndicatorRb2-3or4  BOOLEAN,
  rlc-Re-establishIndicatorRb5orAbove  BOOLEAN,
  -- CN information elements
  cn-InformationInfo              CN-InformationInfo                OPTIONAL,
  -- UTRAN mobility IES
  ura-Identity                    URA-Identity                      OPTIONAL,
  -- Radio bearer IES
  rb-InformationReleaseList        RB-InformationReleaseList          OPTIONAL,
  rb-InformationReconfigList       RB-InformationReconfigList-r6      OPTIONAL,
  rb-InformationAffectedList        RB-InformationAffectedList-r6      OPTIONAL,
  dl-CounterSynchronisationInfo    DL-CounterSynchronisationInfo-r5  OPTIONAL,
  -- Transport channel IES
  ul-CommonTransChInfo            UL-CommonTransChInfo-r4           OPTIONAL,
  ul-DeletedTransChInfoList        UL-DeletedTransChInfoList-r6      OPTIONAL,
  ul-AddReconfTransChInfoList      UL-AddReconfTransChInfoList-r6    OPTIONAL,
  modeSpecificTransChInfo          CHOICE {
    fdd                             SEQUENCE {
      cpch-SetID                    CPCH-SetID                        OPTIONAL,
      addReconfTransChDRAC-Info      DRAC-StaticInformationList        OPTIONAL
    },
    tdd                             NULL
  },
  dl-CommonTransChInfo            DL-CommonTransChInfo-r4           OPTIONAL,
  dl-DeletedTransChInfoList        DL-DeletedTransChInfoList-r5      OPTIONAL,
  dl-AddReconfTransChInfoList      DL-AddReconfTransChInfoList-r5    OPTIONAL,
  -- Physical channel IES
  frequencyInfo                   FrequencyInfo                       OPTIONAL,
  maxAllowedUL-TX-Power            MaxAllowedUL-TX-Power              OPTIONAL,
  ul-ChannelRequirement            UL-ChannelRequirement-r6           OPTIONAL,
  ul-EDCH-Information              UL-EDCH-Information-r6             OPTIONAL,
  modeSpecificPhysChInfo          CHOICE {
    fdd                             SEQUENCE {
      dl-PDSCH-Information           DL-PDSCH-Information              OPTIONAL
    },
    tdd                             NULL
  },
  beaconPLEst                      BEACON-PL-Est                      OPTIONAL
}
}
dl-HSPDSCH-Information            DL-HSPDSCH-Information              OPTIONAL,
dl-CommonInformation              DL-CommonInformation-r6             OPTIONAL,
dl-InformationPerRL-List          DL-InformationPerRL-List-r6         OPTIONAL,
-- MBMS IES
mbms-PL-ServiceRestrictInfo       MBMS-PL-ServiceRestrictInfo-r6    OPTIONAL
}

```

```

CellUpdateConfirm-v6xyext-IEs ::= SEQUENCE {
  -- Core network IES
  primary-plmn-Identity            PLMN-Identity                      OPTIONAL,
  -- Physical channel IES
  harq-Preamble-Mode              HARQ-Preamble-Mode                 OPTIONAL,
  beaconPLEst                      BEACON-PL-Est                      OPTIONAL,
  -- MBMS IES
  mbms-PL-ServiceRestrictInfo       MBMS-PL-ServiceRestrictInfo-r6    OPTIONAL
}

```

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

```

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION
--
-- *****

```

```

PhysicalChannelReconfiguration ::= CHOICE {
  r3                               SEQUENCE {
    physicalChannelReconfiguration-r3
    PhysicalChannelReconfiguration-r3-IEs,

```



```

-- UTRAN mobility IEs
  ura-Identity          URA-Identity          OPTIONAL,
-- Radio bearer IEs
  dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo  OPTIONAL,
-- Physical channel IEs
  frequencyInfo        FrequencyInfo        OPTIONAL,
  maxAllowedUL-TX-Power  MaxAllowedUL-TX-Power  OPTIONAL,
  -- TABULAR: UL-ChannelRequirementWithCPCH-SetID contains the choice
  -- between UL DPCH info, CPCH SET info and CPCH set ID.
  ul-ChannelRequirement  UL-ChannelRequirementWithCPCH-SetID  OPTIONAL,
  modeSpecificInfo      CHOICE {
    fdd                  SEQUENCE {
      dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
    },
    tdd                  NULL
  },
  dl-CommonInformation  DL-CommonInformation  OPTIONAL,
  dl-InformationPerRL-List  DL-InformationPerRL-List  OPTIONAL
}

PhysicalChannelReconfiguration-v3a0ext ::= SEQUENCE {
  new-DSCH-RNTI          DSCH-RNTI          OPTIONAL
}

PhysicalChannelReconfiguration-v4b0ext-IEs ::= SEQUENCE {
  -- Physical channel IEs
  -- ssdt-UL extends SSdT-Information, which is included in
  -- DL-CommonInformation. FDD only.
  ssdt-UL-r4            SSdT-UL            OPTIONAL,
  -- The order of the RLs in IE cell-id-PerRL-List is the same as
  -- in IE DL-InformationPerRL-List included in this message
  cell-id-PerRL-List    CellIdentity-PerRL-List  OPTIONAL
}

PhysicalChannelReconfiguration-v590ext-IEs ::= SEQUENCE {
  -- Physical channel IEs
  dl-TPC-PowerOffsetPerRL-List  DL-TPC-PowerOffsetPerRL-List  OPTIONAL
}

PhysicalChannelReconfiguration-r4-IEs ::= SEQUENCE {
  -- User equipment IEs
  integrityProtectionModeInfo  IntegrityProtectionModeInfo  OPTIONAL,
  cipheringModeInfo            CipheringModeInfo            OPTIONAL,
  activationTime                ActivationTime                OPTIONAL,
  new-U-RNTI                    U-RNTI                    OPTIONAL,
  new-C-RNTI                    C-RNTI                    OPTIONAL,
  new-DSCH-RNTI                DSCH-RNTI                OPTIONAL,
  rrc-StateIndicator            RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff    UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
  -- Core network IEs
  cn-InformationInfo            CN-InformationInfo            OPTIONAL,
  -- UTRAN mobility IEs
  ura-Identity                  URA-Identity                  OPTIONAL,
  -- Radio bearer IEs
  dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo  OPTIONAL,
  -- Physical channel IEs
  frequencyInfo                FrequencyInfo                OPTIONAL,
  maxAllowedUL-TX-Power        MaxAllowedUL-TX-Power        OPTIONAL,
  -- TABULAR: UL-ChannelRequirementWithCPCH-SetID-r4 contains the choice
  -- between UL DPCH info, CPCH SET info and CPCH set ID.
  ul-ChannelRequirement        UL-ChannelRequirementWithCPCH-SetID-r4  OPTIONAL,
  modeSpecificInfo            CHOICE {
    fdd                        SEQUENCE {
      dl-PDSCH-Information    DL-PDSCH-Information    OPTIONAL
    },
    tdd                        NULL
  },
  dl-CommonInformation        DL-CommonInformation-r4        OPTIONAL,
  dl-InformationPerRL-List    DL-InformationPerRL-List-r4    OPTIONAL
}

PhysicalChannelReconfiguration-r5-IEs ::= SEQUENCE {
  -- User equipment IEs
  integrityProtectionModeInfo  IntegrityProtectionModeInfo  OPTIONAL,
  cipheringModeInfo            CipheringModeInfo            OPTIONAL,
  activationTime                ActivationTime                OPTIONAL,
  new-U-RNTI                    U-RNTI                    OPTIONAL,
  new-C-RNTI                    C-RNTI                    OPTIONAL,
  new-DSCH-RNTI                DSCH-RNTI                OPTIONAL,
  new-H-RNTI                    H-RNTI                    OPTIONAL,

```

```

    rrc-StateIndicator          RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff  UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
-- Core network IEs
    cn-InformationInfo          CN-InformationInfo          OPTIONAL,
-- UTRAN mobility IEs
    ura-Identity                URA-Identity                OPTIONAL,
-- Radio bearer IEs
    dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo-r5  OPTIONAL,
-- Physical channel IEs
    frequencyInfo              FrequencyInfo              OPTIONAL,
    maxAllowedUL-TX-Power       MaxAllowedUL-TX-Power       OPTIONAL,
-- TABULAR: UL-ChannelRequirementWithCPCH-SetID-r5 contains the choice
-- between UL DPCH info, CPCH SET info and CPCH set ID.
    ul-ChannelRequirement       UL-ChannelRequirementWithCPCH-SetID-r5  OPTIONAL,
    modeSpecificInfo            CHOICE {
        fdd                      SEQUENCE {
            dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
        },
        tdd                      NULL
    },
    dl-HSPDSCH-Information       DL-HSPDSCH-Information       OPTIONAL,
    dl-CommonInformation         DL-CommonInformation-r5     OPTIONAL,
    dl-InformationPerRL-List     DL-InformationPerRL-List-r5  OPTIONAL
}

```

```

PhysicalChannelReconfiguration-r6-IEs ::= SEQUENCE {
-- User equipment IEs
    integrityProtectionModeInfo  IntegrityProtectionModeInfo  OPTIONAL,
    cipheringModeInfo            CipheringModeInfo            OPTIONAL,
    activationTime                ActivationTime                OPTIONAL,
    new-U-RNTI                    U-RNTI                      OPTIONAL,
    new-C-RNTI                    C-RNTI                      OPTIONAL,
    new-DSCH-RNTI                DSCH-RNTI                   OPTIONAL,
    new-H-RNTI                    H-RNTI                      OPTIONAL,
    new-E-RNTI                    E-RNTI                      OPTIONAL,
    rrc-StateIndicator          RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff  UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
-- Core network IEs
    cn-InformationInfo          CN-InformationInfo          OPTIONAL,
    plmn-Identity                PLMN-Identity                OPTIONAL,
-- UTRAN mobility IEs
    ura-Identity                URA-Identity                OPTIONAL,
-- Radio bearer IEs
    dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo-r5  OPTIONAL,
-- Physical channel IEs
    frequencyInfo              FrequencyInfo              OPTIONAL,
    maxAllowedUL-TX-Power       MaxAllowedUL-TX-Power       OPTIONAL,
-- TABULAR: UL-ChannelRequirementWithCPCH-SetID-r6 contains the choice
-- between UL DPCH info, CPCH SET info and CPCH set ID.
    ul-ChannelRequirement       UL-ChannelRequirementWithCPCH-SetID-r6  OPTIONAL,
    ul-EDCH-Information         UL-EDCH-Information-r6     OPTIONAL,
    modeSpecificInfo            CHOICE {
        fdd                      SEQUENCE {
            dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
        },
        tdd                      NULLSEQUENCE {
            beaconPLEst          BEACON-PL-Est          OPTIONAL
        }
    },
    dl-HSPDSCH-Information       DL-HSPDSCH-Information       OPTIONAL,
    dl-CommonInformation         DL-CommonInformation-r6     OPTIONAL,
    dl-InformationPerRL-List     DL-InformationPerRL-List-r6  OPTIONAL,
-- MBMS IEs
    mbms-PL-ServiceRestrictInfo  MBMS-PL-ServiceRestrictInfo-r6
}

```

```

PhysicalChannelReconfiguration-v6xyext-IEs ::= SEQUENCE {
-- Core network IEs
    primary-plmn-Identity        PLMN-Identity                OPTIONAL,
-- Physical channel IEs
    harq-Preamble-Mode          HARQ-Preamble-Mode          OPTIONAL,
    beaconPLEst                  BEACON-PL-Est                OPTIONAL,
-- MBMS IEs
    mbms-PL-ServiceRestrictInfo  MBMS-PL-ServiceRestrictInfo-r6  OPTIONAL
}

```

----- 3rd Change -----

```

-- *****
--
-- RADIO BEARER RECONFIGURATION
--
-- *****

RadioBearerReconfiguration ::= CHOICE {
  r3
    SEQUENCE {
      radioBearerReconfiguration-r3 RadioBearerReconfiguration-r3-IEs,
      -- Prefix "v3ao" is used (in one instance) to keep alignment with R99
      v3aoNonCriticalExtensions SEQUENCE {
        radioBearerReconfiguration-v3a0ext RadioBearerReconfiguration-v3a0ext,
        laterNonCriticalExtensions SEQUENCE {
          -- Container for additional R99 extensions
          radioBearerReconfiguration-r3-add-ext BIT STRING OPTIONAL,
          v4b0NonCriticalExtensions SEQUENCE {
            radioBearerReconfiguration-v4b0ext
              RadioBearerReconfiguration-v4b0ext-IEs,
            v590NonCriticalExtensions SEQUENCE {
              radioBearerReconfiguration-v590ext
                RadioBearerReconfiguration-v590ext-IEs,
              v6xyNonCriticalExtensions SEQUENCE {
                radioBearerReconfiguration-v6xyext
                  RadioBearerReconfiguration-v6xyext-IEs,
                nonCriticalExtensions SEQUENCE {} OPTIONAL
              } OPTIONAL
            } OPTIONAL
          } OPTIONAL
        } OPTIONAL
      } OPTIONAL
    },
  later-than-r3
    SEQUENCE {
      rrc-TransactionIdentifier RRC-TransactionIdentifier,
      criticalExtensions CHOICE {
        r4
          SEQUENCE {
            radioBearerReconfiguration-r4 RadioBearerReconfiguration-r4-IEs,
            v4d0NonCriticalExtensions SEQUENCE {
              -- Container for adding non critical extensions after freezing REL-5
              radioBearerReconfiguration-r4-add-ext BIT STRING OPTIONAL,
              v590NonCriticalExtensions SEQUENCE {
                radioBearerReconfiguration-v590ext
                  RadioBearerReconfiguration-v590ext-IEs,
              v6xyNonCriticalExtensions SEQUENCE {
                radioBearerReconfiguration-v6xyext
                  RadioBearerReconfiguration-v6xyext-IEs,
                nonCriticalExtensions SEQUENCE {} OPTIONAL
              } OPTIONAL
            } OPTIONAL
          } OPTIONAL
        },
        criticalExtensions CHOICE {
          r5
            SEQUENCE {
              radioBearerReconfiguration-r5 RadioBearerReconfiguration-r5-IEs,
              -- Container for adding non critical extensions after freezing REL-6
              radioBearerReconfiguration-r5-add-ext BIT STRING OPTIONAL,
              v6xyNonCriticalExtensions SEQUENCE {
                radioBearerReconfiguration-v6xyext
                  RadioBearerReconfiguration-v6xyext-IEs,
                nonCriticalExtensions SEQUENCE {} OPTIONAL
              } OPTIONAL
            },
            criticalExtensions CHOICE {
              r6
                SEQUENCE {
                  radioBearerReconfiguration-r6 RadioBearerReconfiguration-r6-IEs,
                  -- Container for adding non critical extensions after freezing REL-7
                  radioBearerReconfiguration-r6-add-ext BIT STRING OPTIONAL,
                  nonCriticalExtensions SEQUENCE {} OPTIONAL
                },
              criticalExtensions SEQUENCE {}
            }
          }
        }
      }
    },
  RadioBearerReconfiguration-r3-IEs ::= SEQUENCE {
    -- User equipment IEs

```

```

    rrc-TransactionIdentifier      RRC-TransactionIdentifier,
    integrityProtectionModeInfo    IntegrityProtectionModeInfo    OPTIONAL,
    cipheringModeInfo              CipheringModeInfo              OPTIONAL,
    activationTime                  ActivationTime                  OPTIONAL,
    new-U-RNTI                     U-RNTI                       OPTIONAL,
    new-C-RNTI                     C-RNTI                       OPTIONAL,
    rrc-StateIndicator             RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff     UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
-- Core network IEs
    cn-InformationInfo             CN-InformationInfo            OPTIONAL,
-- UTRAN mobility IEs
    ura-Identity                   URA-Identity                 OPTIONAL,
-- Radio bearer IEs
    rab-InformationReconfigList    RAB-InformationReconfigList   OPTIONAL,
-- NOTE: IE rb-InformationReconfigList should be optional in later versions
-- of this message
    rb-InformationReconfigList     RB-InformationReconfigList,
    rb-InformationAffectedList     RB-InformationAffectedList    OPTIONAL,
-- Transport channel IEs
    ul-CommonTransChInfo          UL-CommonTransChInfo         OPTIONAL,
    ul-deletedTransChInfoList     UL-DeletedTransChInfoList    OPTIONAL,
    ul-AddReconfTransChInfoList   UL-AddReconfTransChInfoList  OPTIONAL,
    modeSpecificTransChInfo       CHOICE {
        fdd                       SEQUENCE {
            cpch-SetID             CPCH-SetID                   OPTIONAL,
            addReconfTransChDRAC-Info DRAC-StaticInformationList  OPTIONAL
        },
        tdd                       NULL
    }
    dl-CommonTransChInfo          DL-CommonTransChInfo         OPTIONAL,
    dl-DeletedTransChInfoList     DL-DeletedTransChInfoList    OPTIONAL,
    dl-AddReconfTransChInfoList   DL-AddReconfTransChInfo2List  OPTIONAL,
-- Physical channel IEs
    frequencyInfo                 FrequencyInfo                  OPTIONAL,
    maxAllowedUL-TX-Power         MaxAllowedUL-TX-Power        OPTIONAL,
    ul-ChannelRequirement         UL-ChannelRequirement        OPTIONAL,
    modeSpecificPhysChInfo        CHOICE {
        fdd                       SEQUENCE {
            dl-PDSCH-Information   DL-PDSCH-Information        OPTIONAL
        },
        tdd                       NULL
    },
    dl-CommonInformation          DL-CommonInformation         OPTIONAL,
-- NOTE: IE dl-InformationPerRL-List should be optional in later versions
-- of this message
    dl-InformationPerRL-List      DL-InformationPerRL-List
}

RadioBearerReconfiguration-v3a0ext ::= SEQUENCE {
    new-DSCH-RNTI                 DSCH-RNTI                    OPTIONAL
}

RadioBearerReconfiguration-v4b0ext-IEs ::= SEQUENCE {
-- Physical channel IEs
-- ssdt-UL extends SSdT-Information, which is included in
-- DL-CommonInformation. FDD only.
    ssdt-UL-r4                    SSdT-UL                       OPTIONAL,
-- The order of the RLs in IE cell-id-PerRL-List is the same as
-- in IE DL-InformationPerRL-List included in this message
    cell-id-PerRL-List            CellIdentity-PerRL-List      OPTIONAL
}

RadioBearerReconfiguration-v590ext-IEs ::= SEQUENCE {
-- Physical channel IEs
    dl-TPC-PowerOffsetPerRL-List  DL-TPC-PowerOffsetPerRL-List  OPTIONAL
}

RadioBearerReconfiguration-r4-IEs ::= SEQUENCE {
-- User equipment IEs
    integrityProtectionModeInfo    IntegrityProtectionModeInfo    OPTIONAL,
    cipheringModeInfo              CipheringModeInfo              OPTIONAL,
    activationTime                  ActivationTime                  OPTIONAL,
    new-U-RNTI                     U-RNTI                       OPTIONAL,
    new-C-RNTI                     C-RNTI                       OPTIONAL,
    new-DSCH-RNTI                  DSCH-RNTI                     OPTIONAL,
    rrc-StateIndicator             RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff     UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
-- Core network IEs
    cn-InformationInfo             CN-InformationInfo            OPTIONAL,
-- UTRAN mobility IEs

```

```

ura-Identity          URA-Identity          OPTIONAL,
-- Radio bearer IEs
  rab-InformationReconfigList  RAB-InformationReconfigList  OPTIONAL,
  rb-InformationReconfigList  RB-InformationReconfigList-r4  OPTIONAL,
  rb-InformationAffectedList  RB-InformationAffectedList  OPTIONAL,
-- Transport channel IEs
  ul-CommonTransChInfo        UL-CommonTransChInfo-r4      OPTIONAL,
  ul-deletedTransChInfoList   UL-DeletedTransChInfoList    OPTIONAL,
  ul-AddReconfTransChInfoList UL-AddReconfTransChInfoList  OPTIONAL,
  modeSpecificTransChInfo     CHOICE {
    fdd          SEQUENCE {
      cpch-SetID          CPCH-SetID          OPTIONAL,
      addReconfTransChDRAC-Info  DRAC-StaticInformationList  OPTIONAL
    },
    tdd          NULL
  }
  dl-CommonTransChInfo        DL-CommonTransChInfo-r4      OPTIONAL,
  dl-DeletedTransChInfoList   DL-DeletedTransChInfoList    OPTIONAL,
  dl-AddReconfTransChInfoList DL-AddReconfTransChInfoList-r4  OPTIONAL,
-- Physical channel IEs
  frequencyInfo              FrequencyInfo                  OPTIONAL,
  maxAllowedUL-TX-Power      MaxAllowedUL-TX-Power        OPTIONAL,
  ul-ChannelRequirement      UL-ChannelRequirement-r4     OPTIONAL,
  modeSpecificPhysChInfo     CHOICE {
    fdd          SEQUENCE {
      dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
    },
    tdd          NULL
  },
  dl-CommonInformation        DL-CommonInformation-r4      OPTIONAL,
  dl-InformationPerRL-List    DL-InformationPerRL-List-r4  OPTIONAL
}

```

```

RadioBearerReconfiguration-r5-IEs ::= SEQUENCE {
-- User equipment IEs
  integrityProtectionModeInfo  IntegrityProtectionModeInfo  OPTIONAL,
  cipheringModeInfo           CipheringModeInfo             OPTIONAL,
  activationTime               ActivationTime                  OPTIONAL,
  new-U-RNTI                   U-RNTI                        OPTIONAL,
  new-C-RNTI                   C-RNTI                        OPTIONAL,
  new-DSCH-RNTI               DSCH-RNTI                     OPTIONAL,
  new-H-RNTI                   H-RNTI                        OPTIONAL,
  rrc-StateIndicator           RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff  UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
-- Core network IEs
  cn-InformationInfo           CN-InformationInfo            OPTIONAL,
-- UTRAN mobility IEs
  ura-Identity                 URA-Identity                  OPTIONAL,
-- Specification mode information
  specificationMode            CHOICE {
    complete                    SEQUENCE {
-- Radio bearer IEs
      rab-InformationReconfigList  RAB-InformationReconfigList  OPTIONAL,
      rb-InformationReconfigList  RB-InformationReconfigList-r5  OPTIONAL,
      rb-InformationAffectedList  RB-InformationAffectedList-r5  OPTIONAL,
      rb-PDCPContextRelocationList  RB-PDCPContextRelocationList  OPTIONAL,
-- Transport channel IEs
      ul-CommonTransChInfo        UL-CommonTransChInfo-r4      OPTIONAL,
      ul-deletedTransChInfoList   UL-DeletedTransChInfoList    OPTIONAL,
      ul-AddReconfTransChInfoList UL-AddReconfTransChInfoList  OPTIONAL,
      modeSpecificTransChInfo     CHOICE {
        fdd          SEQUENCE {
          cpch-SetID          CPCH-SetID          OPTIONAL,
          addReconfTransChDRAC-Info  DRAC-StaticInformationList  OPTIONAL
        },
        tdd          NULL
      }
      dl-CommonTransChInfo        DL-CommonTransChInfo-r4      OPTIONAL,
      dl-DeletedTransChInfoList   DL-DeletedTransChInfoList-r5  OPTIONAL,
      dl-AddReconfTransChInfoList DL-AddReconfTransChInfoList-r5  OPTIONAL
    },
    preconfiguration            SEQUENCE {
-- All IEs that include an FDD/TDD choice are split in two IEs for this message,
-- one for the FDD only elements and one for the TDD only elements, so that one
-- FDD/TDD choice in this level is sufficient.
      preConfigMode             CHOICE {
        predefinedConfigIdentity  PredefinedConfigIdentity,
        defaultConfig            SEQUENCE {
          defaultConfigMode      DefaultConfigMode,
          defaultConfigIdentity  DefaultConfigIdentity-r5
        }
      }
    }
  }
}

```

```

    }
  }
},
-- Physical channel IEs
frequencyInfo          FrequencyInfo          OPTIONAL,
maxAllowedUL-TX-Power  MaxAllowedUL-TX-Power    OPTIONAL,
ul-ChannelRequirement  UL-ChannelRequirement-r5  OPTIONAL,
modeSpecificPhysChInfo CHOICE {
  fdd                   SEQUENCE {
    dl-PDSCH-Information DL-PDSCH-Information  OPTIONAL
  },
  tdd                   NULL
},
dl-HSPDSCH-Information DL-HSPDSCH-Information    OPTIONAL,
dl-CommonInformation   DL-CommonInformation-r5  OPTIONAL,
dl-InformationPerRL-List DL-InformationPerRL-List-r5  OPTIONAL
}

RadioBearerReconfiguration-r6-IEs ::= SEQUENCE {
-- User equipment IEs
integrityProtectionModeInfo IntegrityProtectionModeInfo  OPTIONAL,
cipheringModeInfo          CipheringModeInfo            OPTIONAL,
activationTime             ActivationTime                  OPTIONAL,
new-U-RNTI                 U-RNTI                        OPTIONAL,
new-C-RNTI                 C-RNTI                        OPTIONAL,
new-DSCH-RNTI             DSCH-RNTI                     OPTIONAL,
new-H-RNTI                 H-RNTI                        OPTIONAL,
new-E-RNTI                 E-RNTI                        OPTIONAL,
rrc-StateIndicator        RRC-StateIndicator,
utran-DRX-CycleLengthCoeff UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
-- Core network IEs
cn-InformationInfo        CN-InformationInfo          OPTIONAL,
plmn-Identity             PLMN-Identity          OPTIONAL,
-- UTRAN mobility IEs
ura-Identity              URA-Identity          OPTIONAL,
-- Specification mode information
specificationMode        CHOICE {
  complete                SEQUENCE {
-- Radio bearer IEs
rab-InformationReconfigList RAB-InformationReconfigList  OPTIONAL,
rb-InformationReconfigList  RB-InformationReconfigList-r6  OPTIONAL,
rb-InformationAffectedList  RB-InformationAffectedList-r6  OPTIONAL,
rb-PDCPContextRelocationList RB-PDCPContextRelocationList  OPTIONAL,
-- Transport channel IEs
ul-CommonTransChInfo       UL-CommonTransChInfo-r4       OPTIONAL,
ul-deletedTransChInfoList  UL-DeletedTransChInfoList-r6  OPTIONAL,
ul-AddReconfTransChInfoList UL-AddReconfTransChInfoList-r6  OPTIONAL,
modeSpecificTransChInfo    CHOICE {
  fdd                      SEQUENCE {
    cpch-SetID             CPCH-SetID             OPTIONAL,
    addReconfTransChDRAC-Info DRAC-StaticInformationList  OPTIONAL
  },
  tdd                      NULL
},
dl-CommonTransChInfo       DL-CommonTransChInfo-r4       OPTIONAL,
dl-DeletedTransChInfoList  DL-DeletedTransChInfoList-r5  OPTIONAL,
dl-AddReconfTransChInfoList DL-AddReconfTransChInfoList-r5  OPTIONAL
},
preconfiguration          SEQUENCE {
-- All IEs that include an FDD/TDD choice are split in two IEs for this message,
-- one for the FDD only elements and one for the TDD only elements, so that one
-- FDD/TDD choice in this level is sufficient.
preConfigMode             CHOICE {
  predefinedConfigIdentity  PredefinedConfigIdentity,
  defaultConfig            SEQUENCE {
    defaultConfigMode      DefaultConfigMode,
    defaultConfigIdentity  DefaultConfigIdentity-r5
  }
}
},
},
-- Physical channel IEs
frequencyInfo          FrequencyInfo          OPTIONAL,
maxAllowedUL-TX-Power  MaxAllowedUL-TX-Power    OPTIONAL,
ul-ChannelRequirement  UL-ChannelRequirement-r6  OPTIONAL,
ul-EDCH-Information    UL-EDCH-Information-r6  OPTIONAL,
modeSpecificPhysChInfo CHOICE {
  fdd                   SEQUENCE {
    dl-PDSCH-Information DL-PDSCH-Information  OPTIONAL
  }
}

```

```

    },
    tdd
SEQUENCE {
    beaconPLEst
    BEACON-PL-Est
    OPTIONAL
},
dl-HSPDSCH-Information DL-HSPDSCH-Information OPTIONAL,
dl-CommonInformation DL-CommonInformation-r6 OPTIONAL,
dl-InformationPerRL-List DL-InformationPerRL-List-r6 OPTIONAL,
-- MBMS IEs
mbms-PL-ServiceRestrictInfo MBMS-PL-ServiceRestrictInfo-r6
}

RadioBearerReconfiguration-v6xyext-IEs ::= SEQUENCE {
-- Core network IEs
primary-plmn-Identity PLMN-Identity OPTIONAL,
-- Physical channel IEs
harq-Preamble-Mode HARQ-Preamble-Mode OPTIONAL,
beaconPLEst BEACON-PL-Est OPTIONAL,
-- MBMS IEs
mbms-PL-ServiceRestrictInfo MBMS-PL-ServiceRestrictInfo-r6 OPTIONAL
}

```

----- 4th Change -----

```

-- *****
--
-- RADIO BEARER RELEASE
--
-- *****

RadioBearerRelease ::= CHOICE {
    r3
        SEQUENCE {
            radioBearerRelease-r3 RadioBearerRelease-r3-IEs,
            v3a0NonCriticalExtensions SEQUENCE {
                radioBearerRelease-v3a0ext RadioBearerRelease-v3a0ext,
                laterNonCriticalExtensions SEQUENCE {
                    -- Container for additional R99 extensions
                    radioBearerRelease-r3-add-ext BIT STRING OPTIONAL,
                    v4b0NonCriticalExtensions SEQUENCE {
                        radioBearerRelease-v4b0ext RadioBearerRelease-v4b0ext-IEs,
                        v590NonCriticalExtensions SEQUENCE {
                            radioBearerRelease-v590ext RadioBearerRelease-v590ext-IEs,
                            v6xyNonCriticalExtensions SEQUENCE {
                                radioBearerRelease-v6xyext RadioBearerRelease-v6xyext-IEs,
                                nonCriticalExtensions SEQUENCE {} OPTIONAL
                            } OPTIONAL
                        } OPTIONAL
                    } OPTIONAL
                } OPTIONAL
            } OPTIONAL
        } OPTIONAL
    },
    later-than-r3
        SEQUENCE {
            rrc-TransactionIdentifier RRC-TransactionIdentifier,
            criticalExtensions
                CHOICE {
                    r4
                        SEQUENCE {
                            radioBearerRelease-r4 RadioBearerRelease-r4-IEs,
                            v4d0NonCriticalExtensions SEQUENCE {
                                -- Container for adding non critical extensions after freezing REL-5
                                radioBearerRelease-r4-add-ext BIT STRING OPTIONAL,
                                v590NonCriticalExtensions SEQUENCE {
                                    radioBearerRelease-v590ext RadioBearerRelease-v590ext-IEs,
                                    v6xyNonCriticalExtensions SEQUENCE {
                                        radioBearerRelease-v6xyext RadioBearerRelease-v6xyext-IEs,
                                        nonCriticalExtensions SEQUENCE {} OPTIONAL
                                    } OPTIONAL
                                } OPTIONAL
                            } OPTIONAL
                        } OPTIONAL
                    } OPTIONAL
                } OPTIONAL
            },
            criticalExtensions
                CHOICE {
                    r5
                        SEQUENCE {
                            radioBearerRelease-r5 RadioBearerRelease-r5-IEs,
                            -- Container for adding non critical extensions after freezing REL-6
                            radioBearerRelease-r5-add-ext BIT STRING OPTIONAL,
                            v6xyNonCriticalExtensions SEQUENCE {
                                radioBearerRelease-v6xyext RadioBearerRelease-v6xyext-IEs,
                                nonCriticalExtensions SEQUENCE {} OPTIONAL
                            } OPTIONAL
                        } OPTIONAL
                    } OPTIONAL
                } OPTIONAL
        }
}

```



```

}

RadioBearerRelease-r4-IEs ::= SEQUENCE {
  -- User equipment IEs
  integrityProtectionModeInfo      IntegrityProtectionModeInfo      OPTIONAL,
  cipheringModeInfo                 CipheringModeInfo                 OPTIONAL,
  activationTime                     ActivationTime                     OPTIONAL,
  new-U-RNTI                         U-RNTI                           OPTIONAL,
  new-C-RNTI                         C-RNTI                           OPTIONAL,
  new-DSCH-RNTI                     DSCH-RNTI                        OPTIONAL,
  rrc-StateIndicator                 RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff        UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
  -- Core network IEs
  cn-InformationInfo                 CN-InformationInfo                OPTIONAL,
  signallingConnectionRelIndication CN-DomainIdentity                OPTIONAL,
  -- UTRAN mobility IEs
  ura-Identity                       URA-Identity                      OPTIONAL,
  -- Radio bearer IEs
  rab-InformationReconfigList        RAB-InformationReconfigList        OPTIONAL,
  rb-InformationReleaseList           RB-InformationReleaseList,
  rb-InformationAffectedList          RB-InformationAffectedList          OPTIONAL,
  dl-CounterSynchronisationInfo      DL-CounterSynchronisationInfo      OPTIONAL,
  -- Transport channel IEs
  ul-CommonTransChInfo               UL-CommonTransChInfo-r4           OPTIONAL,
  ul-deletedTransChInfoList          UL-DeletedTransChInfoList          OPTIONAL,
  ul-AddReconfTransChInfoList        UL-AddReconfTransChInfoList        OPTIONAL,
  modeSpecificTransChInfo            CHOICE {
    fdd                               SEQUENCE {
      cpch-SetID                      CPCH-SetID                        OPTIONAL,
      addReconfTransChDRAC-Info        DRAC-StaticInformationList        OPTIONAL
    },
    tdd                               NULL
  }
  dl-CommonTransChInfo               DL-CommonTransChInfo-r4           OPTIONAL,
  dl-DeletedTransChInfoList           DL-DeletedTransChInfoList          OPTIONAL,
  dl-AddReconfTransChInfoList-r4     DL-AddReconfTransChInfoList-r4     OPTIONAL,
  -- Physical channel IEs
  frequencyInfo                      FrequencyInfo                      OPTIONAL,
  maxAllowedUL-TX-Power               MaxAllowedUL-TX-Power              OPTIONAL,
  ul-ChannelRequirement-r4            UL-ChannelRequirement-r4           OPTIONAL,
  modeSpecificPhysChInfo              CHOICE {
    fdd                               SEQUENCE {
      dl-PDSCH-Information             DL-PDSCH-Information              OPTIONAL
    },
    tdd                               NULL
  },
  dl-CommonInformation                DL-CommonInformation-r4            OPTIONAL,
  dl-InformationPerRL-List            DL-InformationPerRL-List-r4        OPTIONAL
}

```

```

RadioBearerRelease-r5-IEs ::= SEQUENCE {
  -- User equipment IEs
  integrityProtectionModeInfo      IntegrityProtectionModeInfo      OPTIONAL,
  cipheringModeInfo                 CipheringModeInfo                 OPTIONAL,
  activationTime                     ActivationTime                     OPTIONAL,
  new-U-RNTI                         U-RNTI                           OPTIONAL,
  new-C-RNTI                         C-RNTI                           OPTIONAL,
  new-DSCH-RNTI                     DSCH-RNTI                        OPTIONAL,
  new-H-RNTI                         H-RNTI                           OPTIONAL,
  rrc-StateIndicator                 RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff        UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
  -- Core network IEs
  cn-InformationInfo                 CN-InformationInfo                OPTIONAL,
  signallingConnectionRelIndication CN-DomainIdentity                OPTIONAL,
  -- UTRAN mobility IEs
  ura-Identity                       URA-Identity                      OPTIONAL,
  -- Radio bearer IEs
  rab-InformationReconfigList        RAB-InformationReconfigList        OPTIONAL,
  rb-InformationReleaseList           RB-InformationReleaseList,
  rb-InformationAffectedList-r5       RB-InformationAffectedList-r5      OPTIONAL,
  dl-CounterSynchronisationInfo-r5   DL-CounterSynchronisationInfo-r5   OPTIONAL,
  -- Transport channel IEs
  ul-CommonTransChInfo               UL-CommonTransChInfo-r4           OPTIONAL,
  ul-deletedTransChInfoList          UL-DeletedTransChInfoList          OPTIONAL,
  ul-AddReconfTransChInfoList        UL-AddReconfTransChInfoList        OPTIONAL,
  modeSpecificTransChInfo            CHOICE {
    fdd                               SEQUENCE {
      cpch-SetID                      CPCH-SetID                        OPTIONAL,
      addReconfTransChDRAC-Info        DRAC-StaticInformationList        OPTIONAL
    },
    tdd                               NULL
  }
}

```

```

        tdd                                NULL                                OPTIONAL,
    }
    dl-CommonTransChInfo                   DL-CommonTransChInfo-r4             OPTIONAL,
    dl-DeletedTransChInfoList              DL-DeletedTransChInfoList-r5        OPTIONAL,
    dl-AddReconfTransChInfoList            DL-AddReconfTransChInfoList-r5     OPTIONAL,
-- Physical channel IEs
    frequencyInfo                           FrequencyInfo                         OPTIONAL,
    maxAllowedUL-TX-Power                   MaxAllowedUL-TX-Power               OPTIONAL,
    ul-ChannelRequirement                   UL-ChannelRequirement-r5           OPTIONAL,
    modeSpecificPhysChInfo                  CHOICE {
        fdd                                SEQUENCE {
            dl-PDSCH-Information            DL-PDSCH-Information              OPTIONAL
        },
        tdd                                NULL
    },
    dl-HSPDSCH-Information                  DL-HSPDSCH-Information              OPTIONAL,
    dl-CommonInformation                    DL-CommonInformation-r5             OPTIONAL,
    dl-InformationPerRL-List                DL-InformationPerRL-List-r5        OPTIONAL
}

RadioBearerRelease-v6xyext-IEs ::= SEQUENCE {
-- Core network IEs
    primary-plmn-Identity                   PLMN-Identity                       OPTIONAL,
-- Physical channel IEs
    harq-Preamble-Mode                     HARQ-Preamble-Mode                  OPTIONAL,
    beaconPLEst                             BEACON-PL-Est                      OPTIONAL,
-- MBMS IEs
    mbms-PL-ServiceRestrictInfo            MBMS-PL-ServiceRestrictInfo-r6     OPTIONAL,
    mbms-RB-ListReleasedToChangeTransferMode
                                            RB-InformationReleaseList          OPTIONAL
}

RadioBearerRelease-r6-IEs ::= SEQUENCE {
-- User equipment IEs
    integrityProtectionModeInfo            IntegrityProtectionModeInfo         OPTIONAL,
    cipheringModeInfo                       CipheringModeInfo                   OPTIONAL,
    activationTime                           ActivationTime                       OPTIONAL,
    new-U-RNTI                               U-RNTI                             OPTIONAL,
    new-C-RNTI                               C-RNTI                             OPTIONAL,
    new-DSCH-RNTI                           DSCH-RNTI                          OPTIONAL,
    new-H-RNTI                               H-RNTI                             OPTIONAL,
    new-E-RNTI                               E-RNTI                             OPTIONAL,
    rrc-StateIndicator                       RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff              UTRAN-DRX-CycleLengthCoefficient    OPTIONAL,
-- Core network IEs
    cn-InformationInfo                       CN-InformationInfo                  OPTIONAL,
    plmn-Identity                           PLMN-Identity                      OPTIONAL,
    signallingConnectionRelIndication        CN-DomainIdentity                  OPTIONAL,
-- UTRAN mobility IEs
    ura-Identity                             URA-Identity                       OPTIONAL,
-- Radio bearer IEs
    rab-InformationReconfigList              RAB-InformationReconfigList         OPTIONAL,
    rb-InformationReleaseList                RB-InformationReleaseList,
    rb-InformationAffectedList              RB-InformationAffectedList-r6       OPTIONAL,
    dl-CounterSynchronisationInfo           DL-CounterSynchronisationInfo-r5    OPTIONAL,
-- Transport channel IEs
    ul-CommonTransChInfo                    UL-CommonTransChInfo-r4            OPTIONAL,
    ul-deletedTransChInfoList               UL-DeletedTransChInfoList-r6       OPTIONAL,
    ul-AddReconfTransChInfoList            UL-AddReconfTransChInfoList-r6     OPTIONAL,
    modeSpecificTransChInfo                  CHOICE {
        fdd                                SEQUENCE {
            cpch-SetID                       CPCH-SetID                         OPTIONAL,
            addReconfTransChDRAC-Info        DRAC-StaticInformationList         OPTIONAL
        },
        tdd                                NULL
    }
    dl-CommonTransChInfo                    DL-CommonTransChInfo-r4            OPTIONAL,
    dl-DeletedTransChInfoList              DL-DeletedTransChInfoList-r5        OPTIONAL,
    dl-AddReconfTransChInfoList            DL-AddReconfTransChInfoList-r5     OPTIONAL,
-- Physical channel IEs
    frequencyInfo                           FrequencyInfo                         OPTIONAL,
    maxAllowedUL-TX-Power                   MaxAllowedUL-TX-Power               OPTIONAL,
    ul-ChannelRequirement                   UL-ChannelRequirement-r6           OPTIONAL,
    ul-EDCH-Information                     UL-EDCH-Information-r6             OPTIONAL,
    modeSpecificPhysChInfo                  CHOICE {
        fdd                                SEQUENCE {
            dl-PDSCH-Information            DL-PDSCH-Information              OPTIONAL
        },
        tdd                                NULL SEQUENCE {
            beaconPLEst                       BEACON-PL-Est                     OPTIONAL
        }
    }
}

```

```

    },
    dl-HSPDSCH-Information          DL-HSPDSCH-Information          OPTIONAL,
    dl-CommonInformation            DL-CommonInformation-r5        OPTIONAL,
    dl-InformationPerRL-List        DL-InformationPerRL-List-r6    OPTIONAL,
    -- MBMS IEs
    mbms-PL-ServiceRestrictInfo     MBMS-PL-ServiceRestrictInfo-r6,
    mbms-RB-ListReleasedToChangeTransferMode
                                     RB-InformationReleaseList        OPTIONAL
}

```

----- 5th Change -----

```

-- *****
--
-- RADIO BEARER SETUP
--
-- *****

RadioBearerSetup ::= CHOICE {
    r3
        SEQUENCE {
            radioBearerSetup-r3          RadioBearerSetup-r3-IEs,
            v3a0NonCriticalExtensions     SEQUENCE {
                radioBearerSetup-v3a0ext  RadioBearerSetup-v3a0ext,
                laterNonCriticalExtensions SEQUENCE {
                    -- Container for additional R99 extensions
                    radioBearerSetup-r3-add-ext  BIT STRING      OPTIONAL,
                    v4b0NonCriticalExtensions     SEQUENCE {
                        radioBearerSetup-v4b0ext  RadioBearerSetup-v4b0ext-IEs,
                        v590NonCriticalExtensions SEQUENCE {
                            radioBearerSetup-v590ext  RadioBearerSetup-v590ext-IEs,
                            v6xyNonCriticalExtensions SEQUENCE {
                                radioBearerSetup-v6xyext  RadioBearerSetup-v6xyext-IEs,
                                nonCriticalExtensions     SEQUENCE {} OPTIONAL
                            } OPTIONAL
                        } OPTIONAL
                    } OPTIONAL
                } OPTIONAL
            } OPTIONAL
        } OPTIONAL
    },
    later-than-r3
        SEQUENCE {
            rrc-TransactionIdentifier      RRC-TransactionIdentifier,
            criticalExtensions              CHOICE {
                r4
                    SEQUENCE {
                        radioBearerSetup-r4          RadioBearerSetup-r4-IEs,
                        v4d0NonCriticalExtensions     SEQUENCE {
                            -- Container for adding non critical extensions after freezing REL-5
                            radioBearerSetup-r4-add-ext  BIT STRING      OPTIONAL,
                            v590NonCriticalExtensions     SEQUENCE {
                                radioBearerSetup-v590ext  RadioBearerSetup-v590ext-IEs,
                                v6xyNonCriticalExtensions SEQUENCE {
                                    radioBearerSetup-v6xyext  RadioBearerSetup-v6xyext-IEs,
                                    nonCriticalExtensions     SEQUENCE {}      OPTIONAL
                                } OPTIONAL
                            } OPTIONAL
                        } OPTIONAL
                    } OPTIONAL
                },
                criticalExtensions              CHOICE {
                    r5
                        SEQUENCE {
                            radioBearerSetup-r5          RadioBearerSetup-r5-IEs,
                            -- Container for adding non critical extensions after freezing REL-6
                            radioBearerSetup-r5-add-ext  BIT STRING      OPTIONAL,
                            v6xyNonCriticalExtensions     SEQUENCE {
                                radioBearerSetup-v6xyext  RadioBearerSetup-v6xyext-IEs,
                                nonCriticalExtensions     SEQUENCE {}      OPTIONAL
                            } OPTIONAL
                        },
                        criticalExtensions              CHOICE {
                            r6
                                SEQUENCE {
                                    radioBearerSetup-r6          RadioBearerSetup-r6-IEs,
                                    -- Container for adding non critical extensions after freezing REL-7
                                    radioBearerSetup-r6-add-ext  BIT STRING      OPTIONAL,
                                    nonCriticalExtensions         SEQUENCE {}      OPTIONAL
                                },
                                criticalExtensions              SEQUENCE {}
                            }
                        }
                    }
                }
            }
        }
}

```

```

RadioBearerSetup-r3-IEs ::= SEQUENCE {
  -- User equipment IEs
  rrc-TransactionIdentifier      RRC-TransactionIdentifier,
  integrityProtectionModeInfo    IntegrityProtectionModeInfo    OPTIONAL,
  cipheringModeInfo              CipheringModeInfo                OPTIONAL,
  activationTime                  ActivationTime                    OPTIONAL,
  new-U-RNTI                      U-RNTI                          OPTIONAL,
  new-C-RNTI                      C-RNTI                          OPTIONAL,
  rrc-StateIndicator              RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff      UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
  -- UTRAN mobility IEs
  ura-Identity                    URA-Identity                    OPTIONAL,
  -- Core network IEs
  cn-InformationInfo              CN-InformationInfo              OPTIONAL,
  -- Radio bearer IEs
  srb-InformationSetupList        SRB-InformationSetupList        OPTIONAL,
  rab-InformationSetupList        RAB-InformationSetupList        OPTIONAL,
  rb-InformationAffectedList      RB-InformationAffectedList      OPTIONAL,
  dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo  OPTIONAL,
  -- Transport channel IEs
  ul-CommonTransChInfo            UL-CommonTransChInfo            OPTIONAL,
  ul-deletedTransChInfoList       UL-DeletedTransChInfoList       OPTIONAL,
  ul-AddReconfTransChInfoList     UL-AddReconfTransChInfoList     OPTIONAL,
  modeSpecificTransChInfo         CHOICE {
    fdd                            SEQUENCE {
      cpch-SetID                    CPCH-SetID                    OPTIONAL,
      addReconfTransChDRAC-Info     DRAC-StaticInformationList    OPTIONAL
    },
    tdd                            NULL
  }
  dl-CommonTransChInfo            DL-CommonTransChInfo            OPTIONAL,
  dl-DeletedTransChInfoList       DL-DeletedTransChInfoList       OPTIONAL,
  dl-AddReconfTransChInfoList     DL-AddReconfTransChInfoList     OPTIONAL,
  -- Physical channel IEs
  frequencyInfo                   FrequencyInfo                     OPTIONAL,
  maxAllowedUL-TX-Power            MaxAllowedUL-TX-Power            OPTIONAL,
  ul-ChannelRequirement            UL-ChannelRequirement            OPTIONAL,
  modeSpecificPhysChInfo          CHOICE {
    fdd                            SEQUENCE {
      dl-PDSCH-Information           DL-PDSCH-Information           OPTIONAL
    },
    tdd                            NULL
  },
  dl-CommonInformation             DL-CommonInformation             OPTIONAL,
  dl-InformationPerRL-List         DL-InformationPerRL-List         OPTIONAL
}

RadioBearerSetup-v3a0ext ::= SEQUENCE {
  new-DSCH-RNTI                    DSCH-RNTI                    OPTIONAL
}

RadioBearerSetup-v4b0ext-IEs ::= SEQUENCE {
  -- Physical channel IEs
  -- ssdt-UL extends SSdT-Information, which is included in
  -- DL-CommonInformation. FDD only.
  ssdt-UL-r4                        SSdT-UL                        OPTIONAL,
  -- The order of the RLs in IE cell-id-PerRL-List is the same as
  -- in IE DL-InformationPerRL-List included in this message
  cell-id-PerRL-List                CellIdentity-PerRL-List        OPTIONAL
}

RadioBearerSetup-v590ext-IEs ::= SEQUENCE {
  -- Physical channel IEs
  dl-TPC-PowerOffsetPerRL-List      DL-TPC-PowerOffsetPerRL-List  OPTIONAL
}

RadioBearerSetup-r4-IEs ::= SEQUENCE {
  -- User equipment IEs
  integrityProtectionModeInfo        IntegrityProtectionModeInfo    OPTIONAL,
  cipheringModeInfo                  CipheringModeInfo                OPTIONAL,
  activationTime                      ActivationTime                    OPTIONAL,
  new-U-RNTI                          U-RNTI                          OPTIONAL,
  new-C-RNTI                          C-RNTI                          OPTIONAL,
  new-DSCH-RNTI                      DSCH-RNTI                        OPTIONAL,
  rrc-StateIndicator                  RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff          UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
  -- UTRAN mobility IEs
  ura-Identity                        URA-Identity                    OPTIONAL,
  -- Core network IEs

```

```

    cn-InformationInfo          CN-InformationInfo          OPTIONAL,
-- Radio bearer IEs
  srb-InformationSetupList     SRB-InformationSetupList     OPTIONAL,
  rab-InformationSetupList     RAB-InformationSetupList-r4  OPTIONAL,
  rb-InformationAffectedList   RB-InformationAffectedList   OPTIONAL,
  dl-CounterSynchronisationInfo DL-CounterSynchronisationInfo OPTIONAL,
-- Transport channel IEs
  ul-CommonTransChInfo        UL-CommonTransChInfo-r4      OPTIONAL,
  ul-deletedTransChInfoList   UL-DeletedTransChInfoList   OPTIONAL,
  ul-AddReconfTransChInfoList UL-AddReconfTransChInfoList OPTIONAL,
  modeSpecificTransChInfo     CHOICE {
    fdd                        SEQUENCE {
      cpch-SetID              CPCH-SetID                  OPTIONAL,
      addReconfTransChDRAC-Info DRAC-StaticInformationList OPTIONAL
    },
    tdd                        NULL
  }
  dl-CommonTransChInfo        DL-CommonTransChInfo-r4      OPTIONAL,
  dl-DeletedTransChInfoList   DL-DeletedTransChInfoList   OPTIONAL,
  dl-AddReconfTransChInfoList DL-AddReconfTransChInfoList-r4 OPTIONAL,
-- Physical channel IEs
  frequencyInfo               FrequencyInfo                 OPTIONAL,
  maxAllowedUL-TX-Power       MaxAllowedUL-TX-Power       OPTIONAL,
  ul-ChannelRequirement       UL-ChannelRequirement-r4    OPTIONAL,
  modeSpecificPhysChInfo      CHOICE {
    fdd                        SEQUENCE {
      dl-PDSCH-Information    DL-PDSCH-Information       OPTIONAL
    },
    tdd                        NULL
  },
  dl-CommonInformation        DL-CommonInformation-r4      OPTIONAL,
  dl-InformationPerRL-List    DL-InformationPerRL-List-r4  OPTIONAL
}

RadioBearerSetup-r5-IEs ::= SEQUENCE {
-- User equipment IEs
  integrityProtectionModeInfo IntegrityProtectionModeInfo  OPTIONAL,
  cipheringModeInfo          CipheringModeInfo            OPTIONAL,
  activationTime              ActivationTime                OPTIONAL,
  new-U-RNTI                  U-RNTI                      OPTIONAL,
  new-C-RNTI                  C-RNTI                      OPTIONAL,
  new-DSCH-RNTI              DSCH-RNTI                   OPTIONAL,
  new-H-RNTI                  H-RNTI                      OPTIONAL,
  rrc-StateIndicator          RRC-StateIndicator,
  utran-DRX-CycleLengthCoeff UTRAN-DRX-CycleLengthCoefficient OPTIONAL,
-- UTRAN mobility IEs
  ura-Identity                URA-Identity                OPTIONAL,
-- Core network IEs
  cn-InformationInfo          CN-InformationInfo          OPTIONAL,
-- Radio bearer IEs
  srb-InformationSetupList     SRB-InformationSetupList-r5  OPTIONAL,
  rab-InformationSetupList     RAB-InformationSetupList-r5  OPTIONAL,
  rb-InformationAffectedList   RB-InformationAffectedList-r5 OPTIONAL,
  dl-CounterSynchronisationInfo DL-CounterSynchronisationInfo-r5 OPTIONAL,
-- Transport channel IEs
  ul-CommonTransChInfo        UL-CommonTransChInfo-r4      OPTIONAL,
  ul-deletedTransChInfoList   UL-DeletedTransChInfoList   OPTIONAL,
  ul-AddReconfTransChInfoList UL-AddReconfTransChInfoList OPTIONAL,
  modeSpecificTransChInfo     CHOICE {
    fdd                        SEQUENCE {
      cpch-SetID              CPCH-SetID                  OPTIONAL,
      addReconfTransChDRAC-Info DRAC-StaticInformationList OPTIONAL
    },
    tdd                        NULL
  }
  dl-CommonTransChInfo        DL-CommonTransChInfo-r4      OPTIONAL,
  dl-DeletedTransChInfoList   DL-DeletedTransChInfoList-r5 OPTIONAL,
  dl-AddReconfTransChInfoList DL-AddReconfTransChInfoList-r5 OPTIONAL,
-- Physical channel IEs
  frequencyInfo               FrequencyInfo                 OPTIONAL,
  maxAllowedUL-TX-Power       MaxAllowedUL-TX-Power       OPTIONAL,
  ul-ChannelRequirement       UL-ChannelRequirement-r5    OPTIONAL,
  modeSpecificPhysChInfo      CHOICE {
    fdd                        SEQUENCE {
      dl-PDSCH-Information    DL-PDSCH-Information       OPTIONAL
    },
    tdd                        NULL
  },
  dl-HSPDSCH-Information      DL-HSPDSCH-Information      OPTIONAL,
  dl-CommonInformation        DL-CommonInformation-r5     OPTIONAL,

```

```

        dl-InformationPerRL-List          DL-InformationPerRL-List-r5          OPTIONAL
    }

RadioBearerSetup-v6xyext-IEs ::= SEQUENCE {
    -- Core network IEs
    primary-plmn-Identity                PLMN-Identity                OPTIONAL,
    -- Physical channel IEs
    harq-Preamble-Mode                   HARQ-Preamble-Mode           OPTIONAL,
    beaconPLEst                           BEACON-PL-Est                OPTIONAL,
    -- Radio bearer IEs
    rab-InformationSetupList              RAB-InformationSetupList-r6-ext  OPTIONAL,
    -- MBMS IEs
    mbms-PL-ServiceRestrictInfo          MBMS-PL-ServiceRestrictInfo-r6  OPTIONAL
}

RadioBearerSetup-r6-IEs ::= SEQUENCE {
    -- User equipment IEs
    integrityProtectionModeInfo          IntegrityProtectionModeInfo     OPTIONAL,
    cipheringModeInfo                    CipheringModeInfo               OPTIONAL,
    activationTime                        ActivationTime                   OPTIONAL,
    new-U-RNTI                            U-RNTI                         OPTIONAL,
    new-C-RNTI                            C-RNTI                         OPTIONAL,
    new-DSCH-RNTI                         DSCH-RNTI                      OPTIONAL,
    new-H-RNTI                            H-RNTI                         OPTIONAL,
    new-E-RNTI                            E-RNTI                         OPTIONAL,
    rrc-StateIndicator                   RRC-StateIndicator,
    utran-DRX-CycleLengthCoeff           UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
    -- UTRAN mobility IEs
    ura-Identity                          URA-Identity                   OPTIONAL,
    -- Core network IEs
    cn-InformationInfo                    CN-InformationInfo             OPTIONAL,
    plmn-Identity                          PLMN-Identity                  OPTIONAL,
    -- Radio bearer IEs
    srb-InformationSetupList              SRB-InformationSetupList-r6     OPTIONAL,
    rab-InformationSetupList              RAB-InformationSetupList-r6     OPTIONAL,
    rb-InformationAffectedList            RB-InformationAffectedList-r6    OPTIONAL,
    dl-CounterSynchronisationInfo         DL-CounterSynchronisationInfo-r5  OPTIONAL,
    -- Transport channel IEs
    ul-CommonTransChInfo                  UL-CommonTransChInfo-r4        OPTIONAL,
    ul-deletedTransChInfoList             UL-DeletedTransChInfoList-r6    OPTIONAL,
    ul-AddReconfTransChInfoList           UL-AddReconfTransChInfoList-r6  OPTIONAL,
    modeSpecificTransChInfo               CHOICE {
        fdd                                SEQUENCE {
            cpch-SetID                     CPCH-SetID                     OPTIONAL,
            addReconfTransChDRAC-Info       DRAC-StaticInformationList     OPTIONAL
        },
        tdd                                NULL
    }
    dl-CommonTransChInfo                  DL-CommonTransChInfo-r4        OPTIONAL,
    dl-DeletedTransChInfoList             DL-DeletedTransChInfoList-r5    OPTIONAL,
    dl-AddReconfTransChInfoList           DL-AddReconfTransChInfoList-r5  OPTIONAL,
    -- Physical channel IEs
    frequencyInfo                         FrequencyInfo                   OPTIONAL,
    maxAllowedUL-TX-Power                  MaxAllowedUL-TX-Power          OPTIONAL,
    ul-ChannelRequirement                 UL-ChannelRequirement-r6       OPTIONAL,
    ul-EDCH-Information                   UL-EDCH-Information-r6        OPTIONAL,
    modeSpecificPhysChInfo                CHOICE {
        fdd                                SEQUENCE {
            dl-PDSCH-Information            DL-PDSCH-Information           OPTIONAL
        },
        tdd                                NULLSEQUENCE {
            beaconPLEst                     BEACON-PL-Est                  OPTIONAL
        }
    }
    dl-HSPDSCH-Information                DL-HSPDSCH-Information         OPTIONAL,
    dl-CommonInformation                  DL-CommonInformation-r6        OPTIONAL,
    dl-InformationPerRL-List              DL-InformationPerRL-List-r6    OPTIONAL,
    mbms-PL-ServiceRestrictInfo          MBMS-PL-ServiceRestrictInfo-r6  OPTIONAL,
    -- MBMS IEs
}

```

----- 6th Change -----

```

-- *****
--
-- TRANSPORT CHANNEL RECONFIGURATION
--
-- *****

```

```

TransportChannelReconfiguration ::= CHOICE {
    r3                                SEQUENCE {

```



```

    utran-DRX-CycleLengthCoeff      UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
-- Core network IES
  cn-InformationInfo                CN-InformationInfo                OPTIONAL,
-- UTRAN mobility IES
  ura-Identity                       URA-Identity                       OPTIONAL,
-- Radio bearer IES
  dl-CounterSynchronisationInfo     DL-CounterSynchronisationInfo     OPTIONAL,
-- Transport channel IES
  ul-CommonTransChInfo              UL-CommonTransChInfo              OPTIONAL,
  ul-AddReconfTransChInfoList       UL-AddReconfTransChInfoList       OPTIONAL,
  modeSpecificTransChInfo           CHOICE {
    fdd                               SEQUENCE {
      cpch-SetID                     CPCH-SetID                       OPTIONAL,
      addReconfTransChDRAC-Info       DRAC-StaticInformationList       OPTIONAL
    },
    tdd                               NULL
  }
  dl-CommonTransChInfo              DL-CommonTransChInfo              OPTIONAL,
  dl-AddReconfTransChInfoList       DL-AddReconfTransChInfoList       OPTIONAL,
-- Physical channel IES
  frequencyInfo                     FrequencyInfo                       OPTIONAL,
  maxAllowedUL-TX-Power              MaxAllowedUL-TX-Power              OPTIONAL,
  ul-ChannelRequirement              UL-ChannelRequirement              OPTIONAL,
  modeSpecificPhysChInfo             CHOICE {
    fdd                               SEQUENCE {
      dl-PDSCH-Information            DL-PDSCH-Information            OPTIONAL
    },
    tdd                               NULL
  },
  dl-CommonInformation              DL-CommonInformation              OPTIONAL,
  dl-InformationPerRL-List           DL-InformationPerRL-List           OPTIONAL
}

TransportChannelReconfiguration-v3a0ext ::= SEQUENCE {
  new-DSCH-RNTI                      DSCH-RNTI                          OPTIONAL
}

TransportChannelReconfiguration-v4b0ext-IES ::= SEQUENCE {
-- Physical channel IES
  -- ssdt-UL extends SSdT-Information, which is included in
  -- DL-CommonInformation. FDD only.
  ssdt-UL-r4                          SSdT-UL                              OPTIONAL,
  -- The order of the RLs in IE cell-id-PerRL-List is the same as
  -- in IE DL-InformationPerRL-List included in this message
  cell-id-PerRL-List                  CellIdentity-PerRL-List             OPTIONAL
}

TransportChannelReconfiguration-v590ext-IES ::= SEQUENCE {
-- Physical channel IES
  dl-TPC-PowerOffsetPerRL-List        DL-TPC-PowerOffsetPerRL-List        OPTIONAL
}

TransportChannelReconfiguration-r4-IES ::= SEQUENCE {
-- User equipment IES
  integrityProtectionModeInfo         IntegrityProtectionModeInfo          OPTIONAL,
  cipheringModeInfo                   CipheringModeInfo                    OPTIONAL,
  activationTime                       ActivationTime                         OPTIONAL,
  new-U-RNTI                           U-RNTI                               OPTIONAL,
  new-C-RNTI                           C-RNTI                               OPTIONAL,
  new-DSCH-RNTI                        DSCH-RNTI                            OPTIONAL,
  rrc-StateIndicator                  RRC-StateIndicator                  OPTIONAL,
  utran-DRX-CycleLengthCoeff          UTRAN-DRX-CycleLengthCoefficient     OPTIONAL,
-- Core network IES
  cn-InformationInfo                  CN-InformationInfo                   OPTIONAL,
-- UTRAN mobility IES
  ura-Identity                         URA-Identity                         OPTIONAL,
-- Radio bearer IES
  dl-CounterSynchronisationInfo       DL-CounterSynchronisationInfo       OPTIONAL,
-- Transport channel IES
  ul-CommonTransChInfo-r4             UL-CommonTransChInfo-r4             OPTIONAL,
  ul-AddReconfTransChInfoList         UL-AddReconfTransChInfoList         OPTIONAL,
  modeSpecificTransChInfo             CHOICE {
    fdd                               SEQUENCE {
      cpch-SetID                     CPCH-SetID                       OPTIONAL,
      addReconfTransChDRAC-Info       DRAC-StaticInformationList       OPTIONAL
    },
    tdd                               NULL
  }
  dl-CommonTransChInfo-r4             DL-CommonTransChInfo-r4             OPTIONAL,
  dl-AddReconfTransChInfoList-r4      DL-AddReconfTransChInfoList-r4      OPTIONAL
}

```



```

-- Physical channel IEs
frequencyInfo          FrequencyInfo          OPTIONAL,
maxAllowedUL-TX-Power  MaxAllowedUL-TX-Power  OPTIONAL,
ul-ChannelRequirement  UL-ChannelRequirement-r4  OPTIONAL,
modeSpecificPhysChInfo CHOICE {
    fdd                 SEQUENCE {
        dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
    },
    tdd                 NULL
},
dl-CommonInformation  DL-CommonInformation-r4  OPTIONAL,
dl-InformationPerRL-List  DL-InformationPerRL-List-r4  OPTIONAL
}

TransportChannelReconfiguration-r5-IEs ::= SEQUENCE {
-- User equipment IEs
integrityProtectionModeInfo  IntegrityProtectionModeInfo  OPTIONAL,
cipheringModeInfo            CipheringModeInfo            OPTIONAL,
activationTime                ActivationTime                OPTIONAL,
new-U-RNTI                    U-RNTI                      OPTIONAL,
new-C-RNTI                    C-RNTI                      OPTIONAL,
new-DSCH-RNTI                DSCH-RNTI                  OPTIONAL,
new-H-RNTI                    H-RNTI                      OPTIONAL,
rrc-StateIndicator            RRC-StateIndicator,
utran-DRX-CycleLengthCoeff    UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,
-- Core network IEs
cn-InformationInfo            CN-InformationInfo            OPTIONAL,
-- UTRAN mobility IEs
ura-Identity                  URA-Identity                  OPTIONAL,
-- Radio bearer IEs
dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo-r5  OPTIONAL,
-- Transport channel IEs
ul-CommonTransChInfo          UL-CommonTransChInfo-r4        OPTIONAL,
ul-AddReconfTransChInfoList  UL-AddReconfTransChInfoList    OPTIONAL,
modeSpecificTransChInfo      CHOICE {
    fdd                 SEQUENCE {
        cpch-SetID          CPCH-SetID          OPTIONAL,
        addReconfTransChDRAC-Info  DRAC-StaticInformationList  OPTIONAL
    },
    tdd                 NULL
},
dl-CommonTransChInfo          DL-CommonTransChInfo-r4        OPTIONAL,
dl-AddReconfTransChInfoList  DL-AddReconfTransChInfoList-r5  OPTIONAL,
-- Physical channel IEs
frequencyInfo          FrequencyInfo          OPTIONAL,
maxAllowedUL-TX-Power  MaxAllowedUL-TX-Power  OPTIONAL,
ul-ChannelRequirement  UL-ChannelRequirement-r5  OPTIONAL,
modeSpecificPhysChInfo CHOICE {
    fdd                 SEQUENCE {
        dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
    },
    tdd                 NULL
},
dl-HSPDSCH-Information  DL-HSPDSCH-Information  OPTIONAL,
dl-CommonInformation    DL-CommonInformation-r5  OPTIONAL,
dl-InformationPerRL-List  DL-InformationPerRL-List-r5  OPTIONAL
}

TransportChannelReconfiguration-v6xyext-IEs ::= SEQUENCE {
-- Core network IEs
primary-plmn-Identity  PLMN-Identity  OPTIONAL,
-- Physical channel IEs
harq-Preamble-Mode     HARQ-Preamble-Mode  OPTIONAL,
beaconPLEst            BEACON-PL-Est  OPTIONAL,
-- MBMS IEs
mbms-PL-ServiceRestrictInfo  MBMS-PL-ServiceRestrictInfo-r6  OPTIONAL
}

TransportChannelReconfiguration-r6-IEs ::= SEQUENCE {
-- User equipment IEs
integrityProtectionModeInfo  IntegrityProtectionModeInfo  OPTIONAL,
cipheringModeInfo            CipheringModeInfo            OPTIONAL,
activationTime                ActivationTime                OPTIONAL,
new-U-RNTI                    U-RNTI                      OPTIONAL,
new-C-RNTI                    C-RNTI                      OPTIONAL,
new-DSCH-RNTI                DSCH-RNTI                  OPTIONAL,
new-H-RNTI                    H-RNTI                      OPTIONAL,
new-E-RNTI                    E-RNTI                      OPTIONAL,
rrc-StateIndicator            RRC-StateIndicator,
utran-DRX-CycleLengthCoeff    UTRAN-DRX-CycleLengthCoefficient  OPTIONAL,

```

```

-- Core network IEs
  cn-InformationInfo          CN-InformationInfo          OPTIONAL,
  plmn-Identity              PLMN-Identity              OPTIONAL,
-- UTRAN mobility IEs
  ura-Identity              URA-Identity              OPTIONAL,
-- Radio bearer IEs
  dl-CounterSynchronisationInfo  DL-CounterSynchronisationInfo-r5  OPTIONAL,
-- Transport channel IEs
  ul-CommonTransChInfo      UL-CommonTransChInfo-r4          OPTIONAL,
  ul-AddReconfTransChInfoList  UL-AddReconfTransChInfoList-r6  OPTIONAL,
  modeSpecificTransChInfo    CHOICE {
    fdd                      SEQUENCE {
      cpch-SetID            CPCH-SetID          OPTIONAL,
      addReconfTransChDRAC-Info  DRAC-StaticInformationList  OPTIONAL
    },
    tdd                      NULL
  }
  dl-CommonTransChInfo      DL-CommonTransChInfo-r4          OPTIONAL,
  dl-AddReconfTransChInfoList  DL-AddReconfTransChInfoList-r5  OPTIONAL,
-- Physical channel IEs
  frequencyInfo             FrequencyInfo          OPTIONAL,
  maxAllowedUL-TX-Power     MaxAllowedUL-TX-Power  OPTIONAL,
  ul-ChannelRequirement     UL-ChannelRequirement-r6  OPTIONAL,
  ul-EDCH-Information       UL-EDCH-Information-r6  OPTIONAL,
  modeSpecificPhysChInfo    CHOICE {
    fdd                      SEQUENCE {
      dl-PDSCH-Information  DL-PDSCH-Information  OPTIONAL
    },
    tdd                      NULL SEQUENCE {
      beaconPLEst          BEACON-PL-Est          OPTIONAL
    }
  }
  dl-HSPDSCH-Information    DL-HSPDSCH-Information  OPTIONAL,
  dl-CommonInformation      DL-CommonInformation-r6  OPTIONAL,
  dl-InformationPerRL-List  DL-InformationPerRL-List-r6  OPTIONAL,
  mbms-PL-ServiceRestrictInfo  MBMS-PL-ServiceRestrictInfo-r6
}

```

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