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## 2GHz TD-SCDMA 数字蜂窝移动通信网 Iub 接口技术要求 第四部分:NBAP 信令

Technical requirements for Iub interface of 2GHz TD-SCDMA  
digital cellular mobile communication network  
part 4:NBAP signalling

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## 前 言

《2GHz TD-SCDMA数字蜂窝移动通信网 Iub接口技术要求 第四部分：NBAP信令》是《2GHz TD-SCDMA数字蜂窝移动通信网 Iub接口技术要求》标准的第四部分。该标准共分8个部分：

1. 第一部分：总则；
2. 第二部分：层 1；
3. 第三部分：信令传输；
4. 第四部分：NBAP 信令；
5. 第五部分：公共传输信道数据流的数据传输和传输信令；
6. 第六部分：公共传输信道数据流的用户平面协议；
7. 第七部分：专用传输信道数据流的数据传输和传输信令；
8. 第八部分：专用传输信道数据流的用户平面协议。

《2GHz TD-SCDMA数字蜂窝移动通信网 Iub接口技术要求》是2GHz TD-SCDMA数字蜂窝移动通信网系列标准之一。该系列标准的结构和名称预计如下：

1. 《2GHz TD-SCDMA 数字蜂窝移动通信网 无线接入子系统设备技术要求》；
2. 《2GHz TD-SCDMA 数字蜂窝移动通信网 无线接入子系统设备测试方法》；
3. 《2GHz TD-SCDMA 数字蜂窝移动通信网 终端设备技术要求》；
4. 《2GHz TD-SCDMA 数字蜂窝移动通信网 终端设备测试方法》；
5. 《2GHz TD-SCDMA 数字蜂窝移动通信网 Uu 接口物理层技术要求》；
6. 《2GHz TD-SCDMA 数字蜂窝移动通信网 Uu 接口层 2 技术要求》；
7. 《2GHz TD-SCDMA 数字蜂窝移动通信网 Uu 接口 RRC 层技术要求》；
8. 《2GHz WCDMA/TD-SCDMA 数字蜂窝移动通信网 Iu 接口技术要求》；
9. 《2GHz WCDMA/TD-SCDMA 数字蜂窝移动通信网 Iu 接口测试方法》；
10. 《2GHz TD-SCDMA 数字蜂窝移动通信网 Iub 接口技术要求》；
11. 《2GHz TD-SCDMA 数字蜂窝移动通信网 Iub 接口测试方法》。

随着技术的发展，还将制定后续的相关标准。

本部分修改采用《3GPP TS25.433 V4.8.0 - UTRAN Iub接口：NBAP信令》（版本：V4.8.0）；与《3GPP TS25.433 V4.8.0 - UTRAN Iub接口：NBAP信令》相比，本部分有如下修改：

— 完善多载频频点特性，对相关信令流程与参数定义进行修改（修改主要体现在对9.1.24 CELL SETUP REQUEST、9.1.27 CELL RECONFIGURATION REQUEST、9.1.36 RADIO LINK SETUP REQUEST、9.1.39 RADIO LINK ADDITION REQUEST、9.1.42 RADIO LINK RECONFIGURATION PREPARE、9.1.17 AUDIT RESPONSE、9.1.18 COMMON MEASUREMENT INIATION REQUEST、9.1.32 RESOURCE STATUS INDICATION、9.1.3 COMMON TRANSPORT CHANEL SETUP REQUEST消息及相关过程说明，此外还在附录A中加入了一个实现方法示例）。

- 在8.2.1节，公共传输信道建立过程对多条FPACH的情况进行了澄清。
- 在9.1.3节，COMMON TRANSPORT CHANNEL SETUP REQUEST消息中引入了结构上的修改。
- 在9.1.6节，COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST消息中对FPACH的属性进行了修改。本部分规定了2GHz TD-SCDMA Iub接口NBAP信令的要求。
- 在9.1.17节，AUDIT RESPONSE消息中明确了某些参数是专用于FDD和3.84Mcps TDD。
- 在9.1.27节，CELL RECONFIGURATION REQUEST消息中明确了DPCH Constant Value、PUSCH Constant Value、PRACH Constant Value这3个参数Node B收到后会忽略。
- 在9.1.36节，RADIO LINK SETUP REQUEST消息中对上行同步的处理方式进行了修改。
- 在9.1.42节，RADIO LINK RECONFIGURATION PREPARE消息中对上行同步参数属性进行了修改。
- 在9.1.47节，RADIO LINK RECONFIGURATION REQUEST消息中对上行同步参数属性进行了修改。
- 在9.1.62节，PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST消息中引入了结构上的修改。
- 在9.2.1.11节，Common Measurement Type IE中引入了UpPTS Interference测量。
- 在9.2.1.23节，Dedicated Measurement Type IE中引入了Angle of Arriva LCR测量。
- 在9.2.1.44节，Measurement Threshold IE中修改了表格中Rx Timing Deviation测量的范围。

本部分由中国通信标准化协会提出并归口。

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# 2GHz TD-SCDMA 数字蜂窝移动通信网 Iub 接口技术要求

## 第 4 部分：NBAP 信令

### 1 范围

本部分规定了 2GHz TD-SCDMA 数字蜂窝移动通信网 Iub 接口的无线网络层信令协议：Node B 应用部分（NBAP）。本部分规定了 NBAP 支持的 Iub 接口通过信令过程实现的功能。

本部分适用于 2GHz TD-SCDMA 数字蜂窝移动通信网的 Iub 接口。

### 2 规范性引用文件

下列文件中的条款通过本部分的引用而成为本部分的条款。凡是注日期的引用文件，其随后所有的修改单（不包括勘误的内容）或修订版均不适用于本部分。然而，鼓励根据本部分达成协议的各方研究是否可使用这些文件的最新版本。凡是不注日期的引用文件，其最新版本适用于本部分。

3GPP TS 25.401	UTRAN Overall Description
3GPP TS 25.426	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams
CCITT Recommendation X.731 (01/92)	Information Technology – Open Systems Interconnection– Systems Management: State Management function
3GPP TS 25.215	Physical layer – Measurements (FDD)
3GPP TS 25.225	Physical layer – Measurements (TDD)
3GPP TS 25.430	UTRAN Iub General Aspect and Principle
3GPP TS 25.211	Physical channels and mapping of transport channels onto physical channels (FDD)
3GPP TS 25.212	Multiplexing and channel coding (FDD)
3GPP TS 25.213 3GPP TS 25.213	Spreading and modulation (FDD)
3GPP TS 25.214	Physical layer procedures (FDD)
ITU-T Recommendation X.691, (12/97)	Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)
ITU-T Recommendation X.680, (12/97)	Information Technology - Abstract Syntax Notation One (ASN.1):Specification of basic notation
ITU-T Recommendation X.681, (12/97)	Information Technology - Abstract Syntax Notation One (ASN.1): Information object specification
3GPP TS 25.104	UTRA (BS) FDD; Radio Transmission and Reception
3GPP TS 25.105	UTRA (BS) TDD; Radio Transmission and Reception
3GPP TS 25.427	UTRAN Iur/Iub Interface User Plane Protocol for DCH Data Stream
3GPP TS 25.402	Synchronisation in UTRAN Stage2
3GPP TS 25.331	RRC Protocol Specification

3GPP TS 25.221	Physical channels and mapping of transport channels onto physical channels ( TDD )
3GPP TS 25.223	Spreading and modulation (TDD)
3GPP TS 25.224	Physical Layer Procedures (TDD)
3GPP TS 25.133 3GPP TS 25.133	Requirements for support of Radio Resource management (FDD)
3GPP TS 25.123	Requirements for support of Radio Resource management (TDD)
3GPP TS 25.435	UTRAN Iub Interface: User Plane Protocols for Common Transport Channel Data Streams
3GPP TS 25.302	Services Provided by the Physical Layer
3GPP TR 25.921	Guidelines and Principles for Protocol Description and Error Handling
ICD-GPS-200	Navstar GPS Space Segment/Navigation User Interface
RTCM-SC104	RTCM Recommended Standards for Differential GNSS Service (v.2.2)

### 3 定义和缩略语

#### 3.1 定义

下列定义适用于本部分。

**CRNC 通信上下文 (CRNC Communication Context)**: 包含 CRNC 与一个特定 UE 之间通信的必要信息, 由 CRNC 通信上下文标识 (CRNC Communication Context ID) 来识别。

**基本过程 (Elementary Procedure)**: NBAP 协议由基本过程 (EPs) 组成, 一个基本过程是 CRNC 和 Node B 之间交互的一个基本单元。

一个基本过程由一个发起消息和一个可能的应答消息构成。

共有两类基本过程:

- 类别 1: 有响应的基本过程 (成功或失败);
- 类别 2: 没有响应的基本过程。

对于类别 1 的基本过程, 有下列两类响应:

- 成功: 收到的响应消息明确指出基本过程已成功完成。
- 不成功: 响应消息明确指出基本过程失败。

类别 2 的基本过程总被认为是成功的。

**Node B 通信上下文 (Node B Communication Context)**: 包含 Node B 与一个特定 UE 之间通信的必要信息。Node B 通信上下文通过无线链路建立过程产生, 并由无线链路删除过程删除。当无线链路删除过程删除 Node B 通信上下文中最后一条无线链路时, Node B 通信上下文将同时被删除。Node B 通信上下文由 Node B 通信上下文标识 (Node B Communication Context ID) 识别。

**准备好的重配置 (Prepared Reconfiguration)**: 当同步无线链路重配置准备过程成功完成后, 将存在一个准备好的重配置 (Prepared Reconfiguration)。在同步无线链路重配置提交或同步无线链路重配置取消过程完成后, 这个准备好的重配置 (Prepared Reconfiguration) 将不再存在。

#### 3.2 缩略语

下列缩略语适用于本部分。

A-GPS	Assisted GPS	辅助 GPS
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ASN.1	Abstract Syntax Notation One	抽象语义描述 1
BCCH	Broadcast Control Channel	广播控制信道
CCPCH	Common Control Physical Channel	公共控制物理信道
CFN	Connection Frame Number	连接帧号
CRNC	Controlling Radio Network Controller	控制 RNC
DCH	Dedicated Channel	专用信道
DL	Downlink	下行
DPCH	Dedicated Physical Channel	专用物理信道
DSCH	Downlink Shared Channel	下行共享信道
FACH	Forward Access Channel	前向接入信道
FDD	Frequency Division Duplex	频分双工
FP	Frame Protocol	帧协议
GPS	Global Positioning System	全球定位系统
ISCP	Interference Signal Code Power	干扰信号码功率
L1	Layer 1	层 1 (物理层)
L2	Layer 2	层 2 (数据链路层)
MIB	Master Information Block	主系统信息块
NBAP	Node B Application Part	Node B 应用部分
O&M	Operation and Maintenance	操作维护
PCCPCH	Primary Common Control Physical Channel	主公共控制物理信道
PCH	Paging Channel	寻呼信道
PDSCH	Physical Downlink Shared Channel	下行物理共享信道
PICH	Paging Indication Channel	寻呼指示信道
PUSCH	Physical Uplink Shared Channel	上行物理共享信道
RACH	Random Access Channel	随机接入信道
RL	Radio Link	无线链路
RLS	Radio Link Set	无线链路集
RNC	Radio Network Controller	无线网络控制器
RRC	Radio Resource Control	无线资源控制
SB	Scheduling Block	分配块
SCCPCH	Secondary Common Control Physical Channel	辅助公共控制物理信道
SIB	System Information Block	系统信息块
SRNC	Serving Radio Network Controller	服务 RNC
TDD	Time Division Duplex	时分双工
TFC	Transport Format Combination	传输格式组合
TFCI	Transport Format Combination Indicator	传输格式组合指示
TFCS	Transport Format Combination Set	传输格式组合集
TFS	Transport Format Set	传输格式集

TPC	Transmit Power Control	发射功率控制
UE	User Equipment	用户设备
UL	Uplink	上行
UMTS	Universal Mobile Telecommunications System	通用移动通信系统
USCH	Uplink Shared Channel	上行共享信道
UTRA	Universal Terrestrial Radio Access	UMTS 陆地无线接入
UTRAN	Universal Terrestrial Radio Access Network	UMTS 陆地无线接入网

## 4 概述

### 4.1 过程描述原理

过程逻辑描述的原则要求准确并完整地描述 Node B 的功能行为,而不对 CRNC 的功能行为进行描述。这一原则惟一例外的是复位过程,在复位过程中既对 Node B 的功能行为进行描述,也对 RNC 的功能行为进行描述。

### 4.2 前向和后向兼容性

协议的前向和后向兼容性可以由如下机理保证。即所有当前和后续版本中的消息、信元或相关信元组,包括标识字段 (Id) 和重要字段 (criticality fields) 都按标准格式编码,并在后续的版本中不做任何改动。即这些部分的解码不随标准版本的改变而改变。

## 5 NBAP 服务

### 5.1 并行处理

除非在过程描述中明确指出,任何时刻一个协议对等层最多有一个正在进行,即与特定 Node B 通信上下文相关的专用 NBAP 过程。

## 6 期待从信令传输中得到的服务

NBAP 需要信令承载提供一个顺序传送服务,如果不能提供,则需要通知 NBAP。

## 7 NBAP 的功能

NBAP 协议能够提供如下功能:

- 小区配置管理。该功能提供了 CRNC 管理 Node B 中小区配置信息的功能。
- 公共传输信道管理。该功能提供了 CRNC 管理 Node B 中公共传输信道配置的功能。
- 系统信息管理。该功能提供了 CRNC 对小区中广播的系统信息的调度管理能力。
- 资源事件管理。该功能提供了 Node B 通知 CRNC 相关资源状态的能力。
- 配置校准。该功能提供了 CRNC 和 Node B 的审核功能以及强制它们有相同的无线资源配置信息的能力。
- 公共资源测量。该功能允许 CRNC 发起 Node B 公共资源的测量,并且允许 Node B 报告公共测量结果。
- 无线链路管理。该功能允许 CRNC 管理 Node B 中使用专用资源的无线链路。
- 无线链路监视。该功能允许 CRNC 报告无线链路的失败和恢复。

— 专用资源测量。该功能允许 CRNC 发起 Node B 专用资源的测量，并且允许 Node B 报告专用测量结果。

— 报告普通错误情况。该功能允许报告未在特定错误消息中定义普通错误情况。

— 物理共享信道管理。该功能允许 CRNC 管理 Node B 中属于共享信道的物理资源(USCH/DSCH)。

— 下行时隙功率校正。该功能允许 Node B 根据 UE 侧的下行干扰电平为每个时隙提供单独的传输功率偏移。

— 消息互换。该功能允许 CRNC 从 Node B 获取信息，同时也允许 Node B 上报请求的信息。

上述功能与 NBAP 基本过程间的映射见表 1。

表 1 NBAP 功能与基本过程的映射关系

功 能	基本过程
小区配置管理	(1) 小区建立; (2) 小区重配置; (3) 小区删除
公共传输信道管理	(1) 公共传输信道建立; (2) 公共传输信道重配置; (3) 公共传输信道删除
系统信息管理	系统信息更新
资源事件管理	(1) 资源阻塞 ; (2) 资源解阻塞; (3) 资源状态指示
配置校准	(1) 审核请求; (2) 审核; (3) 复位
公共资源测量	(1) 公共测量初始化; (2) 公共测量报告; (3) 公共测量终止; (4) 公共测量失败
无线链路管理	(1) 无线链路建立; (2) 无线链路增加; (3) 无线链路删除; (4) 非同步无线链路重配置; (5) 同步无线链路重配置准备; (6) 同步无线链路重配置提交; (7) 同步无线链路重配置取消; (8) 无线链路抢占
无线链路监视	(1) 无线链路失败; (2) 无线链路恢复

表 1 (续)

功 能	基本过程
专用资源测量	(1) 专用测量初始化; (2) 专用测量报告; (3) 专用测量终止; (4) 专用测量失败
报告普通错误情况	错误指示
物理共享信道管理	物理共享信道重配置
下行时隙功率校正	下行时隙功率控制
消息互换	(1) 消息互换初始化; (2) 消息报告; (3) 消息互换终止; (4) 消息互换失败

## 8 NBAP 过程

### 8.1 基本过程

NBAP 过程分为公共过程和专用过程。

— NBAP 公共过程是为 Node B 中一个特定 UE 初始化 Node B 通信上下文的过程，或者是与任何特定 UE 无关的过程。NBAP 公共过程也包括逻辑 O&M 过程。

— NBAP 专用过程是 Node B 中与某个特定 Node B 通信上下文相关的过程。该 Node B 通信上下文由 Node B 通信上下文标识符标识。

这两种类型的过程可以由分开的信令链路承载。

在表 2 和表 3 中，所有的 EPs 被划分为类型 1 和类型 2。

表 2 类型 1

基本过程	消 息	成功输出	不成功输出
		响应消息	响应消息 定时器
小区建立	CELL SETUP REQUEST	CELL SETUP RESPONSE	CELL SETUP FAILURE
小区重配置	CELL RECONFIGURATION REQUEST	CELL RECONFIGURATION RESPONSE	CELL RECONFIGURATION FAILURE
小区删除	CELL DELETION REQUEST	CELL DELETION RESPONSE	
公共传输信道建立	COMMON TRANSPORT CHANNEL SETUP REQUEST	COMMON TRANSPORT CHANNEL SETUP RESPONSE	COMMON TRANSPORT CHANNEL SETUP FAILURE
公共传输信道重配置	COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST	COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE	COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
公共传输信道删除	COMMON TRANSPORT CHANNEL DELETION REQUEST	COMMON TRANSPORT CHANNEL DELETION RESPONSE	

表 2 (续)

基本过程	消 息	成功输出	不成功输出
		响应消息	响应消息 定时器
物理共享信道 重配置	PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST	PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE	PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE
审核	AUDIT REQUEST	AUDIT RESPONSE	AUDIT FAILURE
资源阻塞	BLOCK RESOURCE REQUEST	BLOCK RESOURCE RESPONSE	BLOCK RESOURCE FAILURE
无线链路建立	RADIO LINK SETUP REQUEST	RADIO LINK SETUP RESPONSE	RADIO LINK SETUP FAILURE
系统信息更新	SYSTEM INFORMATION UPDATE REQUEST	SYSTEM INFORMATION UPDATE RESPONSE	SYSTEM INFORMATION UPDATE FAILURE
公共测量发起	COMMON MEASUREMENT INITIATION REQUEST	COMMON MEASUREMENT INITIATION RESPONSE	COMMON MEASUREMENT INITIATION FAILURE
无线链路增加	RADIO LINK ADDITION REQUEST	RADIO LINK ADDITION RESPONSE	RADIO LINK ADDITION FAILURE
无线链路删除	RADIO LINK DELETION REQUEST	RADIO LINK DELETION RESPONSE	
同步无线链路 重配置准备	RADIO LINK RECONFIGURATION PREPARE	RADIO LINK RECONFIGURATION READY	RADIO LINK RECONFIGURATION FAILURE
非同步无线链 路重配置	RADIO LINK RECONFIGURATION REQUEST	RADIO LINK RECONFIGURATION RESPONSE	RADIO LINK RECONFIGURATION FAILURE
专用测量发起	DEDICATED MEASUREMENT INITIATION REQUEST	DEDICATED MEASUREMENT INITIATION RESPONSE	DEDICATED MEASUREMENT INITIATION FAILURE
复位	RESET REQUEST	RESET RESPONSE	
消息互换	INFORMATION EXCHANGE INITIATION REQUEST	INFORMATION EXCHANGE INITIATION RESPONSE	INFORMATION EXCHANGE INITIATION FAILURE

表 3 类型 2

基本过程	消 息
资源状态指示	RESOURCE STATUS INDICATION
审核请求	AUDIT REQUIRED INDICATION
公共测量报告	COMMON MEASUREMENT REPORT
公共测量终止	COMMON MEASUREMENT TERMINATION REQUEST
公共测量失败	COMMON MEASUREMENT FAILURE INDICATION
同步无线链路重配置提交	RADIO LINK RECONFIGURATION COMMIT
同步无线链路重配置取消	RADIO LINK RECONFIGURATION CANCELLATION
无线链路失败	RADIO LINK FAILURE INDICATION
无线链路恢复	RADIO LINK RESTORE INDICATION
专用测量报告	DEDICATED MEASUREMENT REPORT
专用测量终止	DEDICATED MEASUREMENT TERMINATION REQUEST
专用测量失败	DEDICATED MEASUREMENT FAILURE INDICATION
资源解阻塞	UNBLOCK RESOURCE INDICATION
错误指示	ERROR INDICATION
下行时隙功率控制	DL POWER TIMESLOT CONTROL REQUEST
无线链路抢占	RADIO LINK PREEMPTION REQUIRED INDICATION
消息报告	INFORMATION REPORT
消息互换终止	INFORMATION EXCHANGE TERMINATION REQUEST
消息互换失败	INFORMATION EXCHANGE FAILURE INDICATION

## 8.2 NBAP 公共过程

### 8.2.1 公共传输信道的建立

#### 8.2.1.1 概述

该过程用于建立在 Node B 中必须的资源，如 S-CCPCH、PICH、PRACH、FACH、PCH、RACH 和 FPACH。

#### 8.2.1.2 成功的操作

成功操作时，公共传输信道建立过程，如图 1 所示。

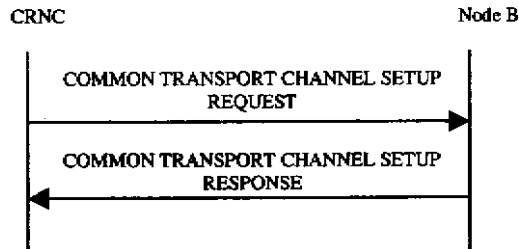


图 1 公共传输信道建立过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息发起。

一条消息一次只能配置成下列组合中的一种：

- 映射到一条 CCTrCH 上的 S-CCPCHs，以及那些与这组 S-CCPCH 相关的 FACHs、PCH，以及和 PCH 相对应的 PICH，
- 一条或多条 PRACH，一条 RACH 及与这组 PRACH 相对应的一条 FPACH。

#### (1) Secondary CCPCH

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中包含 *Secondary CCPCH IE* 时，Node B 将根据消息中的相应参数配置并激活相应的 S-CCPCH 信道。

FACH 和 PCH 可以被映射到由多条 Secondary CCPCH 组构成的一条 CCTrCH 上。

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中包含 *FACH Parameters IE* 时，Node B 将根据消息中的相应参数配置并激活相应的 FACH 信道。

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中包含 *PCH Parameters IE* 以及 *PICH Parameters LCR IE* 时，Node B 将根据消息中的相应参数配置并激活 PCH 信道以及与其相对应的 PICH 信道。

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中的 *PCH Parameters IE* 包含 *PCH Power IE* 时，Node B 将根据这个值来设定 PCH 的发送功率。

#### (2) PRACH

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中包含 *PRACH IE* 时，Node B 将根据消息中的值配置并激活 PRACH 信道和其相对应的 RACH 信道。

#### (3) FPACH

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中包含 *FPACH IE* 时，Node B 将根据消息中的相应参数配置并激活 FPACH 信道。



当定义了多条 FPACH 时, Node B 使用的 FPACH 由 UE 所使用的 UpPCH 物理信号 (SYNC\_UL 码) 定义。FPACH 的编号 =  $N \bmod M$ , 其中,  $N$  代表物理信号 (SYNC\_UL 码) 的编号 (0..7),  $M$  代表一个小区中已经定义的 FPACH 的总数。FPACH 的编号采用 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中 FPACH *Common Physical Channel ID IE* 从小到大的升序排列。*Common Physical Channel ID IE* 最小的 FPACH 编号最小。

当 FPACH IE 中包含 UARFCN IE 时, FPACH 将建立在 UARFCN IE 指示的辅载频上。

当多频点小区在辅载频上建立 FPACH 信道时, Node B 将忽略 PRACH LCR IE 下的所有 IE。

#### (4) 概述

当公共传输信道和公共物理信道配置成功之后, Node B 将存储 *Configuration Generation ID IE* 的值, 并且用 COMMON TRANSPORT CHANNEL SETUP RESPONSE 消息作为对它的响应。该响应消息中带有配置成功的公共传输信道的 *Common Transport Channel ID IE*, *Binding ID IE* 以及 *Transport Layer Address IE* 等参数。

当公共传输信道建立过程成功并且一旦建立传输承载之后, 配置的公共传输信道和公共物理信道在 Node B 中将处于可用状态 (Enabled) (参见 3GPP TS 25.430), 此时公共物理信道在 Uu 接口已经成功建立。

#### 8.2.1.3 不成功的操作

不成功操作时, 公共传输信道建立过程如图 2 所示。

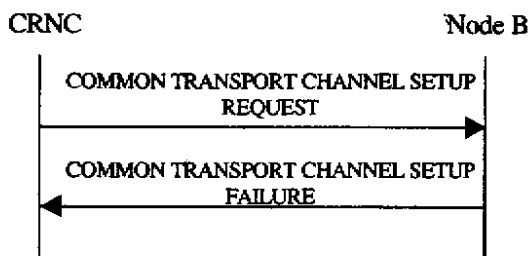


图 2 公共传输信道建立过程, 不成功的操作

当 Node B 不能支持配置的所有或部分内容时, 它将拒绝 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中对所有信道的配置。COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中的信道将保持与此过程之前相同的状态。Cause Value IE 将被设置为一个合适的值。COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中带的 *Configuration Generation ID IE* 值将不被存储。

如果配置不成功, Node B 将使用 COMMON TRANSPORT CHANNEL SETUP FAILURE 消息作为响应。

失败的典型原因有:

##### (1) 无线网络层原因

- 小区不可用;
- 功率电平不支持;
- Node B 资源不可用;
- 请求的发射分集模式不支持;
- 上行链路扩频因子不支持;
- 下行链路扩频因子不支持;

— 公共传输信道类型不支持。

(2) 传输层原因

传输资源不可用。

(3) 其他原因

— O&M 干涉；

— 控制处理过载；

— HW 失败。

#### 8.2.1.4 异常情况

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中包含 *Secondary CCPCH IE*, 但该 IE 既不包含 *FACH IE* 又不包含 *PCH IE* 时, Node B 将发送 COMMON TRANSPORT CHANNEL SETUP FAILURE 消息拒绝该过程。

当 *FACH CCTrCH ID IE* 或 *PCH CCTrCH ID IE* 不等于 *SCCPCH CCTrCH ID IE* 时, Node B 将认为公共传输信道建立过程失败, 并且发送 COMMON TRANSPORT CHANNEL SETUP FAILURE 消息给 CRNC。

当一个 CCTrCH 中每个 S-CCPCH 的 *TDD Physical Channel Offset IE*、*Repetition Period IE*、以及 *Repetition Length IE* 不相同, Node B 将认为公共传输信道建立过程失败, 并且发送 COMMON TRANSPORT CHANNEL SETUP FAILURE 消息给 CRNC。

当一个 PRACH 相对应的每条 RACH 的 *Common Transport Channel ID IE*、*Transport Format Set IE* 不相同, Node B 将认为公共传输信道建立过程失败, 并且发送 COMMON TRANSPORT CHANNEL SETUP FAILURE 消息给 CRNC。

当 COMMON TRANSPORT CHANNEL SETUP REQUEST 消息中标识的要建立的信道中有一条或一条以上信道的状态为可用 (Enabled) 或不可用 (Disabled) (参见 3GPP TS 25.430), 即处于已经存在的状态时, Node B 将拒绝所有信道的配置, 并将原因设为“消息和接收方的状态不匹配”。

### 8.2.2 公共传输信道重配置

#### 8.2.2.1 概述

该过程用于重新配置可能正在使用中的公共传输信道和/或公共物理信道。

#### 8.2.2.2 成功操作

成功操作时, 公共传输信道重配置过程如图 3 所示。

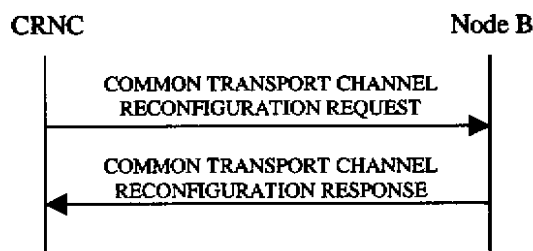


图 3 公共传输信道重配置过程, 成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息发起。

一条消息一次只能配置成下列组合中的一种:

— 映射到一条 CCRCH 上的 S-CCPCHs, 以及那些与该组 S-CCPCH 相关的 FACHs、PCH, 以及和 PCH 对应的 PICH, 或者

— 一条 RACH 和/或与某条 PRACH 相对应的一条 FPACH。

#### (1) S-CCPCH

当 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中包含 *S-CCPCH Power* IE 时, Node B 将重配置 S-CCPCH 使用的功率。

#### (2) FACH

当出现 *FACH Parameters* IE 时, Node B 重配置指示的 FACH(s)。

如果 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息包含 *Max FACH Power* IE, Node B 将重配置 FACH 使用的最大功率。

如果 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息包含 *ToAWS* IE, Node B 将重配置 FACH 使用的到达窗口开始点的时间。

如果 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息包含 *ToAWE* IE, Node B 将重配置 FACH 使用的到达窗口结束点的时间。

#### (3) PCH

当出现 *PCH Parameters* IE 时, Node B 将重配置指示的 PCH。

如果 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中包含 *PCH Power* IE, Node B 将重配置 PCH 使用的功率。

如果 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中包含 *ToAWS* IE, Node B 将重配置 PCH 使用的到达窗口开始点的时间。

如果 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中包含 *ToAWE* IE, Node B 将重配置 PCH 使用的到达窗口结束点的时间。

#### (4) PICH

当出现 *PICH Parameters* IE 时, Node B 重配置指示的 PICH。

当 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中包含 *PICH Power* IE 时, Node B 将重配置 PICH 使用的功率。

#### (5) FPACH

当出现 *FPACH Parameters* IE 时, Node B 重配置指示的 FPACH。

当 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中包含 *Max FPACH Power* IE 时, Node B 将重配置 FPACH 使用的功率。

#### (6) 概述

在重配置过程成功之后, Node B 中的信道将采用新的配置。在 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中的信道将保持与此过程之前相同的状态。Node B 将存储新的 *Configuration Generation ID* IE 值, 并且 Node B 将使用 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE 消息对它进行响应。

### 8.2.2.3 不成功的操作

不成功操作时, 公共传输信道重配置过程如图 4 所示。

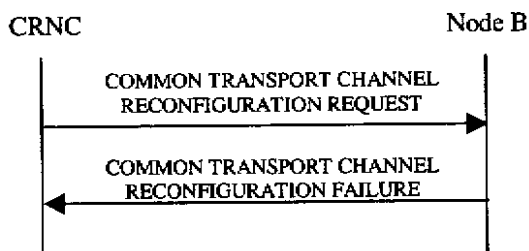


图 4 公共传输信道重配置过程，不成功的操作

如果 Node B 不能够支持重配置的所有或部分内容时，它将拒绝配置 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中提到的所有信道。COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中的信道将保持与此过程之前相同的状态。Cause Value IE 将被设置为一个合适的值。COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST 消息中 Configuration Generation ID IE 值将不被存储。

如果配置不成功，Node B 将使用 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE 消息进行响应。

失败的典型原因有：

(1) 无线网络层原因

- 小区不可用；
- 功率电平不支持；
- Node B 资源不可用。

(2) 传输层原因

传输资源不可用。

(3) 其他原因

- O&M 干涉；
- 控制处理过载；
- HW 失败。

8.2.2.4 异常情况

8.2.3 公共传输信道的删除

8.2.3.1 概述

该过程用于删除公共物理信道和公共传输信道。

8.2.3.2 成功操作

成功操作时，公共传输信道删除过程如图 5 所示。

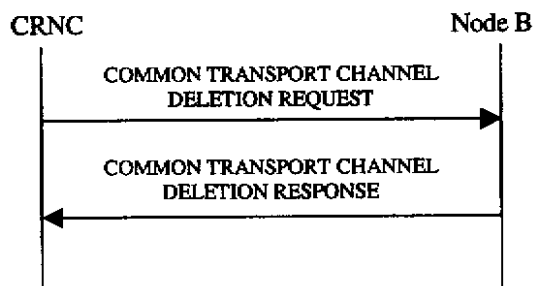


图 5 公共传输信道删除过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 COMMON TRANSPORT CHANNEL DELETION REQUEST 消息发起。

#### (1) Secondary CCPCH

当 COMMON TRANSPORT CHANNEL DELETION REQUEST 消息包含的 *Common Physical Channel ID* IE 指示为一条 S-CCPCH 信道时, Node B 将删除指示的 S-CCPCH 信道和与这条 S-CCPCH 所承载的 FACHs 信道和 PCH 信道。如果一条 PCH 被删除, 那么与这条 PCH 相关联的 PICH 也将被删除。

#### (2) PRACH

当 COMMON TRANSPORT CHANNEL DELETION REQUEST 消息包含的 *Common Physical Channel ID* IE 指示为一条 PRACH 信道时, Node B 将删除指示的信道和与这个 PRACH 相关的 RACH。

#### (3) 概述

如果请求删除的公共物理信道是某个 CCTrCH 的一部分, 那么与这个 CCTrCH 相关联的所有公共传输信道和公共物理信道都将被删除。

在删除过程成功之后, Node B 中的相应信道将被删除。COMMON TRANSPORT CHANNEL DELETION REQUEST 中指示的信道将被设置为不存在状态 (Not Existing) (参见 3GPP TS 25.430)。Node B 将存储新的 *Configuration Generation ID* IE 值, 并且用 COMMON TRANSPORT CHANNEL DELETION RESPONSE 消息进行响应。

### 8.2.3.3 不成功的操作

#### 8.2.3.4 异常情况

如果由 COMMON TRANSPORT CHANNEL DELETION REQUEST 消息中的 C-ID 所指示的小区在 Node B 中不存在, 或由公共物理信道 ID 所指示的公共信道在小区中不存在, Node B 将使用 COMMON TRANSPORT CHANNEL DELETION RESPONSE 消息进行响应。

## 8.2.4 资源阻塞

### 8.2.4.1 概述

Node B 发起该过程请求 CRNC 禁止使用指定的逻辑资源。

可以被阻塞的逻辑资源是小区。

### 8.2.4.2 成功的操作

成功操作时, 资源阻塞过程如图 6 所示。

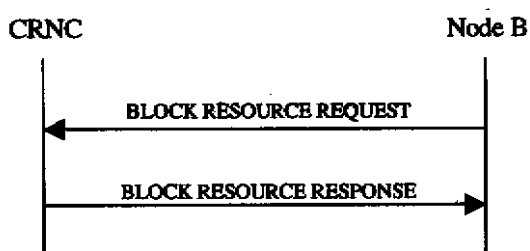


图 6 资源阻塞过程, 成功的操作

该过程由 Node B 通过 Node B 控制端口发送到 CRNC 的 BLOCK RESOURCE REQUEST 消息发起。一旦收到 BLOCK RESOURCE REQUEST 消息, CRNC 将根据 *Blocking Priority Indicator* IE 禁止使用

指示的逻辑资源。

当 BLOCK RESOURCE REQUEST 消息中的 *Blocking Priority Indicator* IE 指示“高优先级”时, CRNC 将立即禁止使用指定的逻辑资源。

当 *Blocking Priority Indicator* IE 指示为“普通优先级”时, 如果该逻辑资源空闲, 或当消息中 *Shutdown Timer* IE 指示的定时器超时, CRNC 将禁止使用指定的逻辑资源。当 CRNC 等待资源成为空闲时和资源被阻塞后, 将不允许新业务使用这些逻辑资源。

当 BLOCK RESOURCE REQUEST 消息中的 *Blocking Priority Indicator* IE 指示为“低优先级”时, CRNC 将在资源变为空闲后禁止使用指定的逻辑资源。当 CRNC 等待资源成为空闲时和资源被阻塞后, 将不允许新业务使用这些逻辑资源。

当资源被成功地阻塞后, CRNC 将使用 BLOCK RESOURCE RESPONSE 消息进行响应。一旦收到 BLOCK RESOURCE RESPONSE 消息, Node B 将禁止 DwPCH 和 Primary CCPCH 信道资源的使用。小区中的其他逻辑资源将被认为已被阻塞。

当逻辑资源被阻塞时, 逻辑资源重配置和系统信息变更仍可以进行。

与资源解阻塞过程的相互作用如下所示。

如果 CRNC 正在进行资源阻塞过程时收到针对同一逻辑资源的 UNBLOCK RESOURCE INDICATION 消息, 则 CRNC 将取消资源阻塞过程转而开始执行资源解阻塞过程。

如果 Node B 在发起一个逻辑资源的解阻塞过程后收到对同一逻辑资源的 BLOCK RESOURCE RESPONSE 消息或 BLOCK RESOURCE FAILURE 消息, Node B 将忽略对资源阻塞过程的任何响应。

#### 8.2.4.3 不成功的操作

不成功操作时, 阻塞资源过程如图 7 所示。

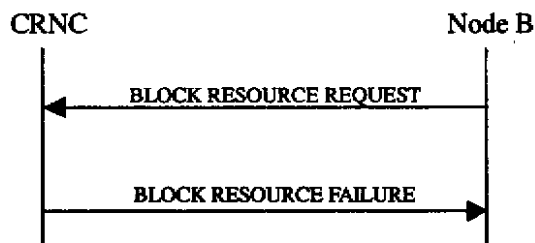


图 7 阻塞资源过程, 不成功的操作

CRNC 可以拒绝逻辑资源阻塞请求, 在此情况下逻辑资源将保持原状态, 并且 CRNC 将使用 BLOCK RESOURCE FAILURE 消息作为对 Node B 请求的响应。Node B 一旦收到 BLOCK RESOURCE FAILURE 消息, Node B 将逻辑资源恢复到资源阻塞过程之前的状态。

典型的原因值有:

(1) 其他原因

- O&M 干涉;
- 控制处理过载;
- HW 失败。

(2) 无线网络层原因

高优先级的传输信道正在使用。

#### 8.2.4.4 异常情况

### 8.2.5 资源解阻塞

#### 8.2.5.1 概述

Node B 发起该过程向 CRNC 指示相应的逻辑资源可以被解除阻塞。

可以被解阻塞的逻辑资源是小区。

#### 8.2.5.2 成功的操作

成功操作时，解除阻塞过程如图 8 所示。



图 8 解除阻塞过程，成功的操作

该过程由 Node B 通过 Node B 控制端口发送到 Node B 的 UNBLOCK RESOURCE INDICATION 消息发起。Node B 将在发送 UNBLOCK RESOURCE INDICATION 消息之前使由于执行资源阻塞过程而被禁止使用的 DwPCH 和 Primary CCPCH 信道的状态重新变为可用状态。一旦收到 UNBLOCK RESOURCE INDICATION 消息，CRNC 将允许使用这些逻辑资源。

当解除阻塞时，该小区中所有被阻塞的物理信道和传输信道都将被解除阻塞。

#### 8.2.5.3 异常情况

### 8.2.6 审核请求

#### 8.2.6.1 概述

Node B 发起该过程请求 CRNC 对 Node B 上的逻辑资源执行一次审核操作。该过程用于对状态或配置信息可能存在的 inconsistency 进行指示。

#### 8.2.6.2 成功的操作

成功操作时，审核请求过程如图 9 所示。

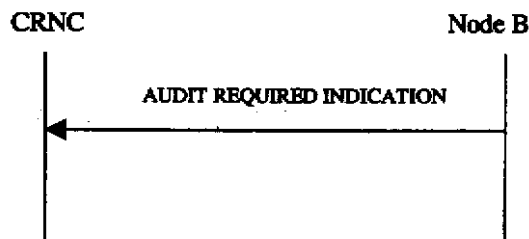


图 9 审核请求过程，成功的操作

该过程由 Node B 通过 Node B 控制端口发送到 CRNC 的 AUDIT REQUIRED INDICATION 消息发起。如果 Node B 不能确保状态和配置信息的一致性，它将发起一个审核请求指示过程。

一旦收到 AUDIT REQUIRED INDICATION 消息，CRNC 将发起审核过程。

#### 8.2.6.3 异常情况

## 8.2.7 审核

### 8.2.7.1 概述

CRNC 通过执行该过程来完成对 Node B 中逻辑资源配置信息以及状态的审核。对 Node B 一个完整的审核可能由一个审核过程或一个包含几个审核过程的审核序列组成。审核可能会引发 CRNC 将 Node B 上的逻辑资源重新同步到 CRNC 已知的状态上，这些逻辑资源的状态应该能被 Node B 所支持。

### 8.2.7.2 成功的操作

成功操作时，审核过程如图 10 所示。

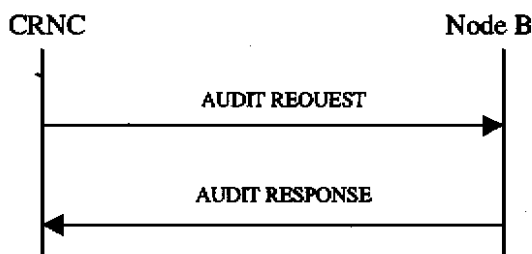


图 10 审核过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 AUDIT REQUEST 消息发起。

如果 AUDIT REQUEST 消息中的 *Start of Audit Sequence Indicator IE* 被设置为“start of audit sequence”，一个新的审核序列将被启用，同时其他任何正在运行的审核序列将被终止，Node B 将向 CRNC 提供（部分）审核信息。如果 *Start of Audit Sequence IE* 被设置为“not start of audit sequence”，Node B 将向 CRNC 提供在本次审核序列中尚未提供的（部分）审核信息。

如果使用 AUDIT RESPONSE 消息完成审核过程，AUDIT RESPONSE 消息中的 *End of Audit Sequence Indicator IE* 被设置为“End of Audit Sequence”。如果部分审核过程还在进行，Node B 将 AUDIT RESPONSE 消息中的 *End of Audit Sequence Indicator IE* 设置为“Not End of Audit Sequence”。

一个审核序列中提供的信息如下。

Node B 应该包含每个逻辑小区的 *Local Cell Information IE*，如果 Node B 知道 *Maximum DL Power Capability IE*、*Minimum Spreading Factor IE* 和 *Minimum DL Power Capability IE*，这些值将包含在 Node B 中。

Node B 应该包含 *Reference Clock availability IE* 指示和本地小区相关的参考时钟的可用性。

当 Node B 的内部资源汇集成组时，Node B 将在 *Local Cell Group Information IE* 中包含 Node B 内部每组小区的资源能力和消耗法则。如果 *Local Cell Group Information IE* 中不包含 *UL Capacity Credit IE*，则 Node B 的内部资源容量将被看成是上行链路和下行链路间的共享资源。

Node B 将在 *Local Cell Information IE* 中提供 Node B 包含的每个本地小区的内部资源能力和消耗法则。如果 *Local Cell Information IE* 中不包含 *UL Capacity Credit IE*，则本地小区的内部资源能力将被看成是上行链路和下行链路间的共享资源。如果本地小区用到 Node B 的内部资源，并且这些资源是有几个本地小区共有的，那么 *Local Cell Group ID IE* 将包含用到这些资源的本地小区组的标识。

Node B 将包含对 Node B 中每个小区的 *Cell Information IE* 组以及每个小区的所有公共传输信道和所有公共物理信道的信息。如果一个小区中的 *Configuration Generation ID IE* 不值得信任的话，Node B 则将这个值设为“0”。

Node B 为 Node B 中每个通信控制端口包含一个 *Communication Control Port Information IE* 信息。



对于多频点小区, NodeB 需要具有向 RNC 上报每个载频逻辑资源容量的状态信息的能力。上报方法可以参考附录 A。

### 8.2.7.3 不成功的操作

不成功操作时, 审核过程如图 10A 所示。

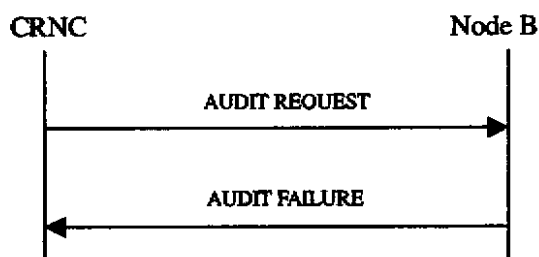


图 10A 审核过程, 不成功的操作

如果 Node B 不能对逻辑资源的配置和状态进行审核, 它将发送一条带有合适 Cause IE 值的 AUDIT FAILURE 消息进行相应的操作。

### 8.2.7.4 异常情况

当 Node B 接收的 AUDIT REQUEST 消息中 *Start of Audit Sequence Indicator* IE 的值为“not start of audit sequence”, 而当前没有正在运行的审核序列时, Node B 将发送一条带有合适 Cause IE 值的 AUDIT FAILURE 消息。

## 8.2.8 公共测量初始化

### 8.2.8.1 概述

该过程用于 CRNC 请求对 Node B 中公共资源的测量进行初始化。

### 8.2.8.2 成功的操作

成功操作时, 公共测量初始化过程如图 11 所示。

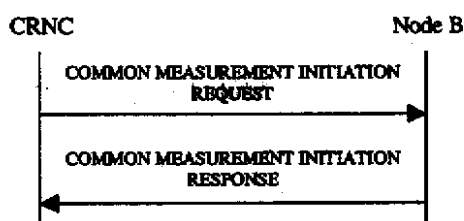


图 11 公共测量初始化过程, 成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 COMMON MEASUREMENT INITIATION REQUEST 消息发起。

一旦收到公共测量请求, Node B 将根据请求中带的参数发起测量。除了下面描述的, 其他参数的含义将在其他规范中给出。

如果在 COMMON MEASUREMENT INITIATION REQUEST 消息中提供了 *Time Slot LCR* IE, 则测量请求将单独应用于请求的时隙。

如果 *Common Measurement Type* IE 没有被设置为“SFN-SFN Observed Time Difference”并且 *SFN Reporting Indicator* IE 被设置为“FN Reporting Required”, 在 COMMON MEASUREMENT REPORT 或 COMMON MEASUREMENT RESPONSE 消息中将包含 *SFN* IE, 后一种情况仅用于 *Report Characteristics*

IE 设置为“On Demand”这种情况。报告的 SFN 值是层三滤波器将测量值上报的时间，参考测量模型中的参考点 C (参见 3GPP TS 25.302)。如果 *Common Measurement Type* IE 被设置为“SFN-SFN Observed Time Difference”，*SFN Reporting Indicator* IE 将被忽略。

### (1) 公共测量类型

如果 *Common Measurement Type* IE 被设置为“SFN-SFN Observed Time Difference”，Node B 将初始化由 *C-ID* IE 指示的小区 and 由 *Neighbouring Cell Measurement Information* IE 中的 *UTRAN Cell Identifier(UC-Id)* IE 指示的相邻小区的 SFN-SFN Observed Time Difference 测量。

### (2) 报告特征

*Report Characteristics* IE 指示了如何执行测量的报告。具体内容可参见 3GPP TS 25.433 附录 B。

如果 *Report Characteristics* IE 被设置为“On-Demand”并且未提供 *SFN* IE，Node B 将立即报告请求的测量结果。如果提供 *SFN* IE，则按照指示的时间提供测量结果。提供的测量结果应由层三滤波器提供，参考测量模型中的参考点 C (参见 3GPP TS 25.302)。

如果 *Report Characteristics* IE 被设置为“Periodic”，Node B 将按照请求的报告频率对这个测量周期性地发起测量报告。当 *Common Measurement Type* IE 被设置为“SFN-SFN Observed Time Difference”时，所有测量结果将在 *SFN-SFN Measurement Value Information* IE 中的 *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE 中报告，在 *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE 中将标识出在公共测量报告过程中无法获得测量结果的相邻小区。如果提供了 *SFN* IE，它将指示采用周期性报告时第一个测量值所对应的 SFN 值。提供的测量结果应由层三滤波器提供，参考测量模型中的参考点 C (参见 3GPP TS 25.302)。

如果 *Report Characteristics* IE 指示为“Event A”，当被测量的实体超过了请求的门限并且保持到请求的滞后时间后，Node B 将发起一个测量报告过程。如果没有给出滞后时间，Node B 将滞后时间设为 0。

如果 *Report Characteristics* IE 指示为“Event B”，当被测量的实体低于请求的门限并且保持到请求的滞后时间后，Node B 将发起一个测量报告过程。如果没有给出滞后时间，Node B 将滞后时间设为 0。

如果 *Report Characteristics* IE 指示为“Event C”，当被测量的实体在请求的时间内上升的值高于请求的门限，Node B 将发起一个测量报告过程。测量报告完成后，在给定的 *Measurement Change Time* IE 指示的上升时间内将不会发起同样的 Event C 报告。

如果 *Report Characteristics* IE 指示为“Event D”，当被测量的实体在请求的时间内下降的值高于请求的门限，Node B 将发起一个测量报告过程。测量报告完成后，在给定的 *Measurement Change Time* IE 指示的下降时间内将不会发起同样的 Event D 报告。

如果 *Report Characteristics* IE 指示为“Event E”，当被测实体超过“测量门限 1”且保持到“测量滞后时间”后，Node B 将发起一个测量报告过程(Report A)。如果满足 Report A 的要求并且提供了 *Report Periodicity* IE，Node B 将周期性地发起测量报告过程。如果满足 Report A 的要求，并且被测实体低于“测量门限 2”且保持到“测量滞后时间”后，Node B 将发起一个测量报告过程(Report B)并终止任何对应的周期性报告过程。如果未给出“测量门限 2”，Node B 将使用“测量门限 1”代替。如果未提供“测量滞后时间”，Node B 将对 Report A 和 Report B 的滞后时间设为 0。

如果 *Report Characteristics* IE 指示了“Event F”，当被测实体低于“测量门限 1”且保持到“测量滞后时间”后，Node B 将发起一个测量报告过程(Report A)。如果满足 Report A 的要求并且提供了 *Report Periodicity* IE，Node B 将周期性地发起测量报告过程。如果满足 Report A 的要求，并且被测实体高于“测

量门限 2”且保持到“测量滞后时间”后，Node B 将发起一个测量报告过程（Report B）并终止任何对应的周期性报告过程。如果未给出“测量门限 2”，Node B 将使用“测量门限 1”代替。如果未提供“测量滞后时间”，Node B 将对 Report A 和 Report B 的滞后时间设为 0。

如果 *Report Characteristics* IE 被设置为“On Modification”并且未提供 *SFN* IE，Node B 将立刻上报测量结果。如果提供 *SFN* IE，则按照指示的时间来提供测量结果。提供的测量结果应由层三滤波器提供，参考测量模型中的参考点 C（参见 3GPP TS 25.302）。Node B 将遵循下列条件初始化 Common Measurement Reporting 过程。

(1) 如果 *Common Measurement Type* IE 被设置为“UTRAN GPS Timing of Cell Frames for UE Positioning”

a) 如果 *TUTRAN-GPS Measurement Threshold Information* IE 中包含 *TUTRAN-GPS Change Limit* IE，Node B 将在测量模型参考点 C（参见 3GPP TS 25.302）之后收到一个新的测量结果，从而计算出 TUTRAN-GPS value ( $F_n$ ) 值的变化。Node B 触发 Common Measurement Reporting 过程，并且当  $F_n$  的绝对值大于 *TUTRAN-GPS Change Limit* IE 中指示的门限时，Node B 将  $n$  设为 0。TUTRAN-GPS 的变化 ( $F_n$ ) 由下列公式计算得出：

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

$$F_n = (M_n - M_{n-1}) \bmod 37152912000000 - ((SFN_n - SFN_{n-1}) \bmod 4096) \times 10 \times 3.84 \times 10^3 \times 16 + F_{n-1} \\ \text{for } n > 0$$

$F_n$  是  $T_{\text{UTRAN-GPS}}$  值的变化，单位是 1/16 chip，它是在第一次公共测量报告被初始化或最近一个事件被触发之后收到的第  $n$  次的测量结果。

$M_n$  是在  $SFN_n$  测量到的测量模型中参考点 C 之后最新收到的测量结果。

$M_{n-1}$  是在  $SFN_{n-1}$  测量到的测量模型中参考点 C 之后先前收到的测量结果。

$M_1$  是在公共测量报告被初始化或事件被触发后收到的第一个测量到的测量模型中参考点 C 之后的测量结果。

$M_0$  的值等于第一个公共测量报告被初始化或最后一个事件被触发后收到的测量报告。

b) 如果 *TUTRAN-GPS Measurement Threshold Information* IE 中包含 *Predicted TUTRAN-GPS Deviation Limit* IE，Node B 在测量模型参考点 C 之后每次将收到一个新的测量结果，并更新  $P_n$  和  $F_n$ 。当  $F_n$  高于 *Predicted TUTRAN-GPS Deviation Limit* IE 设定的门限值时，Node B 将初始化 Common Measurement Reporting 过程并将  $n$  的值置为 0。 $P_n$  和  $F_n$  的值通过下列公式计算：

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

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

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

$P_n$  是第一次公共测量报告被初始化或最近一个事件被触发后收到的第  $n$  次测量的预定义的  $T_{\text{UTRAN-GPS}}$  的值。

$a$  是最新报告的  $T_{\text{UTRAN-GPS}}$  Drift Rate 值。

$b$  是最新报告的  $T_{\text{UTRAN-GPS}}$  值。

$F_n$  是当第一次公共测量报告被初始化或最后一个事件被触发后且收到了  $n$  次测量值后，最后一个测量结果与预测的  $T_{\text{UTRAN-GPS}}$  value ( $P_n$ ) 值的偏差。

$M_n$ 是在  $SFN_n$  测量到的测量模型中参考点 C 之后最新收到的测量结果。

$M_l$ 是在公共测量报告被初始化或最后一个事件被触发后收到的第一个测量到的测量模型中参考点 C 之后收到的测量结果。

在测量模型参考点 B 之后, Node B 将通过 implementation-dependent way 决定  $T_{UTRAN-GPS}$  Drift Rate。

(2) 如果 *Common Measurement Type IE* 被设置为 “SFN-SFN Observed Time Difference”

a) 如果 *SFN-SFN Measurement Threshold Information IE* 中包含 *SFN-SFN Change Limit IE*, Node B 在测量模型参考点 C 后接收到一个新的测量结果后, 用以计算 SFN-SFN 的变化( $F_n$ )。Node B 将初始化公共测量报告过程从而报告特定的 SFN-SFN 测量, 并且当  $F_n$  超出 *SFN-SFN Change Limit IE* 中设定的最高门限时, Node B 将  $n$  值置为 0。SFN-SFN 的变化可以通过下列公式计算出来:

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

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

$F_n$ 是 SFN-SFN 值的变化, 单位是 1/16 chip, 它在第一次公共测量报告被初始化或最后一个事件被触发之后收到的第  $n$  次的测量结果。

$a$  是最新报告的 SFN-SFN 值。

$M_n$ 是在  $SFN_n$  测量到的测量模型中参考点 C 之后最新收到的测量结果。

$M_l$ 是在第一次公共测量报告被初始化或最后一个事件被触发后收到的第一个测量到的测量模型中参考点 C 之后收到的测量结果。

b) 如果 *SFN-SFN Measurement Threshold Information IE* 包含预定义的 *SFN-SFN Deviation Limit IE*, Node B 在测量模型参考点 C 后会收到新的测量结果, 用以更新  $P_n$  和  $F_n$ 。Node B 将初始化公共测量过程从而报告特定的 SFN-SFN 测量以触发事件, 并且当  $F_n$  超出 *Predicted SFN-SFN Deviation Limit IE* 中设定的最高门限时, Node B 将  $n$  值置为 0。 $P_n$  和  $F_n$  的值可以通过下列公式来计算:

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

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

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

$P_n$ 是第一次公共测量报告被初始化或最后一个事件被触发后收到的第  $n$  次测量的预定义的 SFN-SFN 的值。

$a$  是最新报告的 SFN-SFN Drift Rate 值。

$b$  是最新报告的 SFN-SFN 值。

$abs$  指示的是绝对值。

$F_n$ 是第一次公共测量报告被初始化或最后一个事件被触发后且收到了  $n$  次测量值后, 最后一个测量结果与预测的 SFN-SFN value ( $P_n$ )值的偏差。

$M_n$ 是在时隙  $n$  ( $TS_n$ )  $SFN_n$  测量到的测量模型中参考点 C 之后最新收到的测量结果。

$M_l$ 是在第一次公共测量报告被初始化或最后一个事件被触发后收到的第一个测量到的测量模型中参考点 C 之后收到的测量结果。

在测量模型参考点 B 之后, Node B 将通过 implementation-dependent way 决定 SFN-SFN Drift Rate 的值。

如果 *Report Characteristics IE* 未被设置为 “On Demand”, 只要测量对象存在, Node B 将被要求提供对公共测量对象的报告, 测量条件在 COMMON MEASUREMENT INITIATION REQUEST 消息中提供。

如果测量对象不存在, Node B 将在本地终止测量, 不必将此上报给向 CRNC。

如果在测量的开始, 对任何 Event A、Event B、Event E 或 Event F 的报告条件满足, Node B 将立即发起公共测量报告过程, 并且根据 COMMON MEASUREMENT INITIATION REQUEST 消息中的规定继续进行相关测量。

### (1) 高层滤波

Measurement Filter Coefficient IE 指示了在测量事件评估和报告前如何过滤测量值。

将根据下列公式进行平均。

$$F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$$

公式中的变量定义如下:

$F_n$  是更新的测量过滤结果;

$F_{n-1}$  是原来的测量过滤结果;

$M_n$  是从物理层测量收到的最新的测量结果, 它的单位和 COMMON MEASUREMENT INITIATION RESPONSE、COMMON MEASUREMENT REPORT 消息中报告的单位相同或是和事件估计中的单位保持一致 (同  $F_n$ )。

$a = 1/2^{(k/2)}$ ,  $k$  是在 Measurement Filter Coefficient IE 中得到的参数。如果没包含 Measurement Filter Coefficient IE,  $a$  就被设置为 1 (未过滤)。

为了初始化平均过滤, 当收到从物理层来的第一个测量结果时,  $F_0$  被置为  $M_1$ 。

### (2) 公共测量精度

如果 Common Measurement Type IE 被设置为“UTRAN GPS Timing of Cell Frames for UE Positioning”, Node B 将用到下列所示的 Common Measurement Accuracy IE 中的 UTRAN GPS Timing Measurement Accuracy Class IE:

— 如果 UTRAN GPS Timing Measurement Accuracy Class IE 指示为“Class A”, Node B 将执行精度等级 A、B 和 C 中最高的测量精度等级。

— 如果 UTRAN GPS Timing Measurement Accuracy Class IE 指示为“Class B”, Node B 将执行精度等级 B 和 C 中最高的测量精度等级。

— 如果 UTRAN GPS Timing Measurement Accuracy Class IE 指示为“Class C”, Node B 将执行精度等级 C。

### (3) 响应消息

如果 Node B 能够发起 CRNC 请求的测量请求, 它将通过 Node B 控制端口发送 COMMON MEASUREMENT INITIATION RESPONSE 消息进行响应。消息将包括用于测量请求中相同的测量 ID。仅当 Report Characteristics IE 设置为“On-Demand”或“On-Modification”的情况下, COMMON MEASUREMENT INITIATION RESPONSE 消息中会包括测量结果以及 Common Measurement Achieved Accuracy IE 如果 Common Measurement Type IE 被设置为“UTRAN GPS Timing of Cell Frames for UE Positioning”。

如果 Common Measurement Type IE 被设置为“SFN-SFN Observed Time Difference”并且 Report Characteristics IE 被设置为“On Demand”或“On Modification”, 所有可得到的测量结果在 SFN-SFN Measurement Value Information IE 的 Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE 中上报, 并且 Node B 将在 Unsuccessful Neighbouring Cell SFN-SFN Observed

Time Difference Measurement Information IE 中指示其余的没有得到测量结果的相邻小区,并在 COMMON MEASUREMENT INITIATION RESPONSE 消息中上报。对所有可得到的测量结果, Node B 将会在 Successful NeighbourinCell SFN-SFN Observed Time Difference Measurement Information IE 中包含 SFN-SFN Quality IE 以及 SFN-SFN Drift Rate Quality IE。

如果 Common Measurement Type IE 被设置为“UTRAN GPS Timing of Cell Frames for UE Positioning”并且 Report Characteristics IE 被设置为“On Demand”或“On Modification”, Node B 将包含  $T_{UTRAN-GPS}$  Measurement Value Information IE、 $T_{UTRAN-GPS}$  Quality IE 以及  $T_{UTRAN-GPS}$  Drift Rate Quality IE。

### 8.2.8.3 不成功的操作

不成功操作时,公共测量初始化过程如图 12 所示。

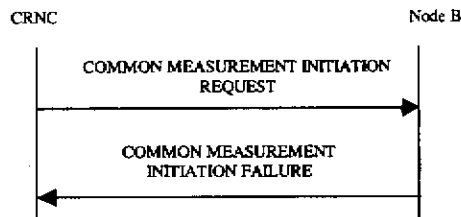


图 12 公共测量初始化过程,不成功的操作

如果请求的测量不能被发起, Node B 将通过 Node B 控制端口发送 COMMON MEASUREMENT INITIATION FAILURE 消息。消息中将包含与 COMMON MEASUREMENT INITIATION REQUEST 消息中相同的测量 ID, 并且 Cause IE 被设置为合适的值。

典型的原因值有:

- (1) 无线网络层原因
  - 对象不支持此测量;
  - 测量临时不可用。

### 8.2.8.4 异常情况

如果 COMMON MEASUREMENT INITIATION REQUEST 消息的 *Common Measurement Type* IE 中指示的公共测量类型在 3GPP TS 25.225 中没有定义, Node B 将认为 Common Measurement Initiation 过程失败。

如果公共测量类型需要相关时隙信息, 但 *Time Slot LCR* IE 在 COMMON MEASUREMENT INITIATION REQUEST 消息中没有提供, 则将认为 Common Measurement Initiation 过程失败。

如果 COMMON MEASUREMENT INITIATION REQUEST 消息中包含了 *SFN-SFN Measurement Threshold Information* IE (包含在 *Report Characteristics* IE 的 *Measurement Threshold* IE 中), 但该 IE 中没有包含任何 IE, Node B 将发送 COMMON MEASUREMENT INITIATION FAILURE 消息拒绝执行测量过程。

如果 COMMON MEASUREMENT INITIATION REQUEST 消息中包含了  $T_{UTRAN-GPS}$  *Measurement Threshold Information* IE (包含在 *Report Characteristics* IE 的 *Measurement Threshold* IE 中), 但该 IE 中没有包含任何 IE, Node B 将发送 COMMON MEASUREMENT INITIATION FAILURE 消息拒绝执行测量过程。

如果 *Common Measurement Type* IE 被设置为“SFN-SFN Observed Time Difference”，但 COMMON MEASUREMENT INITIATION REQUEST 消息中没有提供 *Neighbouring Cell Measurement Information* IE，Node B 将认为 Common Measurement Initiation 过程失败。

如果 *Common Measurement Type* IE 被设置为“UTRAN GPS Timing of Cell Frames for UE Positioning”，但 COMMON MEASUREMENT INITIATION REQUEST 消息中没有提供 *Common Measurement Accuracy* IE 中的  $T_{UTRAN-GPS}$  *Measurement Accuracy Class* IE，Node B 将认为 Common Measurement Initiation 过程失败。

对于多频点小区，如果 COMMON MEASUREMENT INITIATION REQUEST 消息中不包含 *UARFCN* IE，则 Node B 将发送 COMMON MEASUREMENT INITIATION FAILURE 消息拒绝执行测量过程。

对于只配置一个载频的小区，如果 COMMON MEASUREMENT INITIATION REQUEST 消息中包含 *UARFCN* IE，则 Node B 将发送 COMMON MEASUREMENT INITIATION FAILURE 消息拒绝执行测量过程。

表 4 给出了允许的 Common Measurement Type 和 Report Characteristics Type 的组合，用“X”表示。如果出现不允许的组合，Node B 将认为 Common Measurement Initiation 过程失败。

表 4 允许的 Common Measurement Type 和 Report Characteristics Type 组合

Common Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received Total Wide Band Power	X	X	X	X	X	X	X	X	
Transmitted Carrier Power	X	X	X	X	X	X	X	X	
UL Timeslot ISCP	X	X	X	X	X	X	X	X	
UTRAN GPS Timing of Cell Frames for UE Positioning	X	X							X
SFN-SFN Observed Time Difference	X	X							X
UpPTS interference	X	X	X	X	X	X	X	X	

如果 COMMON MEASUREMENT INITIATION REQUEST 消息中包含 *SFN* IE，而 *Report Characteristics* IE 不是“Periodic”、“On Demand”或“On Modification”，Node B 将认为 Common Measurement Initiation 过程失败。

## 8.2.9 公共测量报告

### 8.2.9.1 概述

该过程用于 Node B 对 CRNC 通过公共测量初始化过程请求的测量进行测量报告。

### 8.2.9.2 成功的操作

成功操作时，公共测量报告过程如图 13 所示。

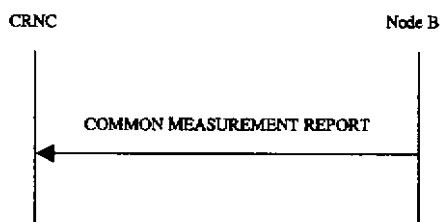


图 13 公共测量报告过程，成功的操作

如果请求的测量报告条件满足, Node B 将发起一个测量报告过程。COMMON MEASUREMENT REPORT 消息将使用 Node B 的控制端口。

Measurement ID IE 将被设置为 CRNC 进行 Common Measurement Initiation 过程中采用的 Measurement ID。

如果测量精度不能满足给定的测量精度(参见 3GPP TS 25.123)时, Common Measurement Value Information IE 将指示为 Measurement not Available。

对于 Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE 中包含的测量, 如果可行, Node B 将包含 SFN-SFN Quality IE 和 SFN-SFN Drift Rate Quality IE。

当用 Common Measurement Initiation 过程发起一个测量时, 如果 RNC 提供的公共测量类型是“UTRAN GPS Timing of Cell Frames for UE Positioning”, Node B 将包含  $T_{UTRAN-GPS}$  Measurement Value Information IE、 $T_{UTRAN-GPS}$  Quality IE 和  $T_{UTRAN-GPS}$  Drift Rate Quality IE。

### 8.2.9.3 异常情况

## 8.2.10 公共测量终止

### 8.2.10.1 概述

该过程用于 CRNC 终止一个先前由公共测量发起过程请求的测量。

### 8.2.10.2 成功的操作

成功操作时, 公共测量终止过程如图 14 所示。



图 14 公共测量终止过程, 成功的操作

该过程由 CRNC 使用 Node B 控制端口发送到 Node B 的 COMMON MEASUREMENT TERMINATION REQUEST 消息发起。

一旦收到上述消息, Node B 将终止对应于收到的 Measurement ID IE 的测量报告。

### 8.2.10.3 异常情况

## 8.2.11 公共测量失败

### 8.2.11.1 概述

该过程用于 Node B 通知 CRNC 先前由公共测量初始化过程请求的一个测量不再报告。

### 8.2.11.2 成功的操作

成功操作时, 测量失败过程如图 15 所示。

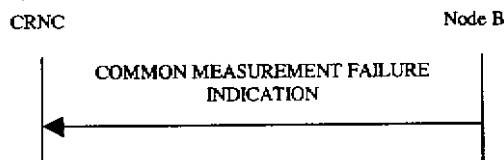


图 15 测量失败过程, 成功的操作



该过程通过 COMMON MEASUREMENT FAILURE INDICATION 消息发起，消息使用 Node B 控制端口，由 Node B 发给 CRNC，通知 CRNC 一个先前请求的测量不再被报告。Node B 将在本地终止相应的测量。

### 8.2.11.3 异常情况

## 8.2.12 小区建立

### 8.2.12.1 概述

该过程用于在 Node B 中建立一个小区。CRNC 将由 *C-ID* IE 标识的小区投入使用，该小区使用 Node B 中由 *Local Cell ID* IE 标识的资源。

### 8.2.12.2 成功的操作

成功操作时，小区建立过程如图 16 所示。

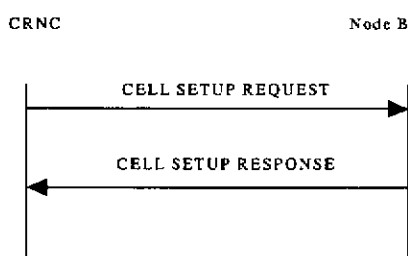


图 16 小区建立过程，成功的操作

该过程由一条从 CRNC 通过 Node B 控制端口发到 Node B 的 CELL SETUP REQUEST 消息发起。一旦收到此消息，Node B 将保留必要的资源并根据消息中给出的参数对新小区进行配置。

*Maximum transmission power* IE 值将被存储在 Node B 中，并且在任何时刻小区总的最大输出功率都不能高于这个值。

如果 CELL SETUP REQUEST 消息中包含 *Reference SFN Offset* IE，和参考时钟相连的 Node B 在设置参考时间时，应将从同步端口获取的 SFN 和参考偏移都考虑在内。所有其他的 Node B 将忽略这个 *Reference SFN Offset* IE。

对于多频点小区，*UARFCN Information LCR* IE 将指示辅载频的频点和时隙配置信息。

当小区成功配置后，Node B 将存储 *Configuration Generation ID* IE 值并发送 CELL SETUP RESPONSE 消息进行响应。

对于多频点小区，只要主频点正常建立，即认为小区建立成功。当小区成功配置后，Node B 将发送 CELL SETUP RESPONSE 进行响应。

当小区成功配置后，DwPCH、Primary CCPCH 和 BCH 都将存在，并且帧结构的上下行转换点也被定义好，小区和信道的状态都被设置为允许态(参见 3GPP TS 25.430)。

### 8.2.12.3 不成功的操作

不成功操作时，小区建立过程如图 17 所示。

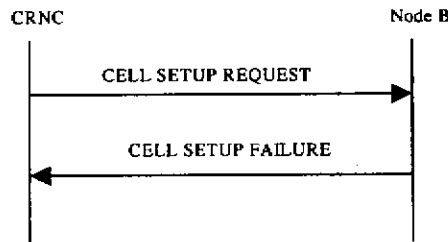


图 17 小区建立过程，不成功的操作

如果 Node B 根据 CELL SETUP REQUEST 消息中的信息不能成功建立小区，则它将发送 CELL SETUP FAILURE 消息给 CRNC。

在这种情况下，小区在 Node B 中不存在。*Configuration Generation ID* 在 Node B 中将不改变。*Cause IE* 将被设置为合适的值。

典型的原因值如下：

(1) 无线网络层原因

- 请求的发射分集模式不支持；
- 功率电平不支持；
- Node B 资源不可用。

(2) 其他原因

- O&M 干涉；
- 控制处理过载；
- HW 失败。

8.2.12.4 异常情况

如果 Node B 在收到 CELL SETUP REQUEST 消息时，指定建立小区的状态已经是允许或不允许状态，此时 Node B 将拒绝该消息中有关小区以及所有信道的配置，并向 RNC 发送一条 CELL SETUP FAILURE 消息，其中 *Cause IE* 被设置为“Message not compatible with receiver state”。

8.2.13 小区重配置

8.2.13.1 概述

该过程用于对 Node B 中的小区进行重配置。

8.2.13.2 成功的操作

成功操作时，小区重配置过程如图 18 所示。

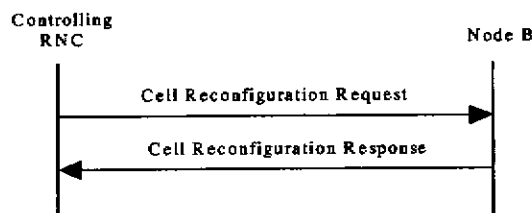


图 18 小区重配置过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 CELL RECONFIGURATION REQUEST 消息发起。一旦收到此消息，Node B 将根据消息中给出的参数重配置小区。

如果 CELL RECONFIGURATION REQUEST 消息中包含 *Timing Advance Applied* IE, Node B 将根据 *Timing Advance Applied* IE 的取值确定在小区中是否提供包含 Rx Timing Deviation 的测量。

如果 CELL RECONFIGURATION REQUEST 消息中包含 *Primary CCPCH Information* IE 组, Node B 将根据 *PCCPCH Power* IE 的值重新配置小区中的 P-CCPCH 功率。Node B 将根据新的值调整所有与 P-CCPCH 功率有关的发射功率电平。

如果 CELL RECONFIGURATION REQUEST 消息中包含 *Maximum Transmission Power* IE, 这个值将被存储在 Node B 中, 并且在任何时刻小区的总输出功率不能超过这个值。

如果 CELL RECONFIGURATION REQUEST 消息包含 *Time Slot Configuration LCR* IE 组, Node B 将根据 *Time Slot LCR* IE 值重配置小区中的切换点。

如果 CELL RECONFIGURATION REQUEST 消息中包含 *DPCH/PUSCH/PRACH Constant Value* IE, Node B 将忽略这些值。

如果 CELL RECONFIGURATION REQUEST 消息中包含 *DwPCH Information* IE, Node B 将根据 *DwPCH Power* IE 重配置 DwPCH 功率。

当小区成功地重配置时, Node B 将存储新的 *Configuration Generation ID* IE 值, 并且发送 CELL RECONFIGURATION RESPONSE 消息作为响应。

如果 CELL RECONFIGURATION REQUEST 消息包含 *Synchronisation Configuration* IE 组, Node B 将根据 *N\_INSYNC\_IND*、*N\_OUTSYNC\_IND* 和 *T\_RLFailure* IEs 的值在小区中重配置指示的参数。

如果 CELL RECONFIGURATION REQUEST 消息包含 *UARFCN Information To Add LCR* IE, Node B 将保留所必需的资源, 并根据 *UARFCN Information To Add LCR* IE 中指示的辅载频的频率信息及间隙的配置信息在该小区中增加一个辅载频。

如果 CELL RECONFIGURATION REQUEST 消息包含 *UARFCN Information To Modify LCR* IE, Node B 将根据 *UARFCN Information To Modify LCR* IE 中指示的辅载频的频率信息及间隙的配置信息在该小区中修改该辅载频的配置。

如果 CELL RECONFIGURATION REQUEST 消息包含 *UARFCN Information To Delete LCR* IE, Node B 将根据 *UARFCN Information To Delete LCR* IE 中指示的辅载频的频率信息在该小区中删除该辅载频, 并删除该辅载频上的所有专用信道, 小区中应被删除的载频的状态被设置为不存在。Node B 将删除小区中所有与该辅载频相关的无线链路以及相应的 Node B 通信上下文。Node B 同时还会发起用户面承载小区中该辅载频上专用信道的传输承载的释放。

### 8.2.13.3 不成功的操作

不成功操作时, 小区重配置过程如图 19 所示。

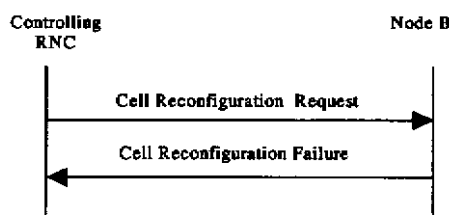


图 19 小区重配置过程, 不成功的操作

如果 Node B 不能根据 CELL RECONFIGURATION REQUEST 消息中给出的信息重配置小区, 它将

发送 CELL RECONFIGURATION FAILURE 消息给 CRNC。

在这种情况下，Node B 将保持小区原有配置，并且 Node B 中的 *Configuration Generation ID* 也将不发生任何改变。

*Cause IE* 将被设置成合适的值。

典型的错误原因如下：

(1) 无线网络层原因；

- 功率级别不支持；
- Node B 资源不可用；
- 不支持 IPDL。

(2) 其他原因

- O&M 干涉；
- 控制处理过载；
- HW 失败。

#### 8.2.13.4 异常情况

### 8.2.14 小区删除

#### 8.2.14.1 概述

该过程用于删除 Node B 中的一个小区。

#### 8.2.14.2 成功的操作

成功操作时，小区删除过程如图 20 所示。

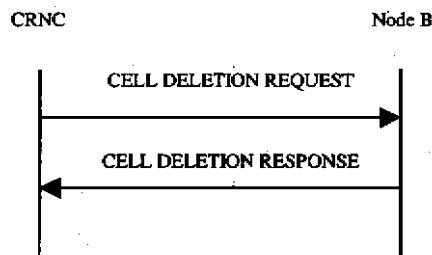


图 20 小区删除过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 CELL DELETION REQUEST 消息发起。一旦接收到此消息，Node B 将删除这个小区和小区中所有的公共信道和专用信道。小区和被删除信道的状态被设置为不存在。Node B 将删除小区中所有的无线链路以及所有的 Node B 通信上下文。Node B 同时还会发起用户平面承载小区公共信道和专用信道的传输承载的释放。

当小区被删除后，Node B 将发送 CELL DELETION RESPONSE 消息作为响应。

#### 8.2.14.3 不成功的操作

#### 8.2.14.4 异常情况

如果 CELL DELETION REQUEST 消息包含的 *C-ID IE* 值在 Node B 中不存在，Node B 将使用 CELL DELETION RESPONSE 消息进行响应。

## 8.2.15 资源状态指示

### 8.2.15.1 概述

该过程用于下列情况：

- 当一个 Local Cell 在 Node B 中变为存在时；
- 当一个 Local Cell 从 Node B 中删除，即成为不存在时；
- 当 Node B 中 Local Cell 的能力改变时；
- 当一个小区改变它的能力和/或它在 Node B 中的资源操作状态时；
- 当 Node B 中的公共物理信道和/或公共传输信道改变它们的能力时；
- 当 Node B 中的通信控制端口改变它的资源操作状态时；
- 当 Node B 中的 Local Cell Group 改变它的资源能力时；
- 对于多频点小区，当小区建立成功，辅载频发生故障时。

以上每一种情况都将引发一个资源指示过程，并且 RESOURCE STATUS INDICATION 将包含受到这种情况影响的逻辑资源和原因值。

### 8.2.15.2 成功的操作

成功操作时，资源状态指示过程如图 21 所示。

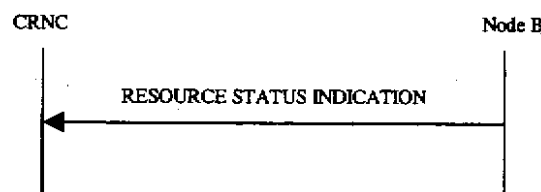


图 21 资源状态指示，成功的操作

该过程由 Node B 通过 Node B 控制端口发送到 CRNC 的 RESOURCE STATUS INDICATION 消息发起。

#### (1) Local Cell 存在时

当一个 Local Cell 在 Node B 中成为存在的，Node B 将使用 RESOURCE STATUS INDICATION 消息通知 CRNC 这个本地小区可用，消息中包含 *Indication Type IE* 设置为 “No Failure”，*Local Cell Id IE* 和 *Add/Delete Indicator IE* 设置为 “Add”。

当几个逻辑小区共享容量借贷和消耗法则时，Node B 将在本地小区定义中包含 *Local Cell Group ID IE*。如果在前一个 RESOURCE STATUS INDICATION 消息中不包含 *Local Cell Group Information IE*，则 Node B 将在 *Local Cell Group Information IE* 中包含容量借贷以及消耗法则信息。

如果 RESOURCE STATUS INDICATION 消息中的 *Local Cell IE* 包含 *DL or Global Capacity Credit IE* 和 *UL Capacity Credit IE*，那么本地小区的内部资源能力将在上行链路和下行链路的方向上是独立的。如果不包含 *UL Capacity Credit IE*，那么本地小区的内部资源能力将在上行链路和下行链路之间共享。如果 *Local Cell Group Information IE* 中包含 *DL or Global Capacity Credit IE* 和 *UL Capacity Credit IE*，那么 Node B 的内部资源能力在上行链路和下行链路的方向上是独立的。如果不包含 *UL Capacity Credit IE*，那么 Node B 的内部资源能力将在上行链路和下行链路之间共享。

#### (2) Local Cell 删除时

当 Node B 中的一个 Local Cell 被删除, 即成为不存在时, Node B 将通过发送 RESOURCE STATUS INDICATION 通知 CRNC, 消息中包含一个 “No Failure” 指示, *Local Cell Id IE* 和 *Add/Delete Indicator IE* 设置为 “Delete”。Node B 不收回 Node B 中先前由 CRNC 通过小区建立过程配置的小区, 直到 CRNC 使用小区删除过程删除 Node B 中的这个小区。

### (3) Local Cell 能力变化时

当 Node B 中 Local Cell 的能力改变时, Node B 将通过 RESOURCE STATUS INDICATION 消息向 CRNC 报告新的 Local Cell 性能, 消息中包含 “Service Impacting” Indication 和 *Local Cell Id IE*。

如果 Node B 知道下行最小功率能力, 它将在消息中包含 *Minimum DL Power Capability IE*。

如果 Local Cell 的最大下行功率能力发生变化, 则新的能力将体现在 *Maximum DL Power Capability IE* 中。

如果下行能力支持的最小扩频因子发生变化, 则新的 SF 将体现在 *Minimum Spreading Factor IE* 中。

如果 Local Cell 相关联的参考时钟发生变化, 则新的参数将体现在 *Reference Clock Availability IE* 中。

RESOURCE STATUS INDICATION 消息中的 *Cause IE* (原因值) 应设定为合理的值。如果影响了 Local Cell 的内部资源能力, 则它需要通过下列方法报告:

— 如果 Local Cell 的内部资源能力为上下行共享的, 则新的能力将在 *DL or Global Capacity Credit IE* 中指示。

— 如果 Local Cell 的内部资源能力为上下行链路各自独立, 则将在 RESOURCE STATUS INDICATION 消息中提供 *DL or Global Capacity Credit IE* 和 *UL Capacity Credit IE*。

如果 Local Cell 公共信道的容量消耗法则发生变化, 那么新的参数将体现在 *Common Channels Capacity Consumption Law IE* 中。

如果 Local Cell 专用信道的容量消耗法则发生变化, 那么新的参数将体现在 *Dedicated Channels Capacity Consumption Law IE* 中。

### (1) 小区能力变化时

当 Node B 中的小区能力和/或资源操作状态改变时, Node B 将通过 RESOURCE STATUS INDICATION 消息报告新的性能和/或资源操作状态, 消息中包含 “Service Impacting” Indication、*Resource Operational State IE* 和 *Availability Status IE*。RESOURCE STATUS INDICATION 消息中的 *Cause IE* 将被设置为适当的值。

### (2) 公共物理信道和/或公共传输信道性能的变化

Node B 将不会因为小区状态为 “Disabled” 而删除任何小区中的公共或专用信道。对于所有受到影响的公共或专用信道, Node B 将通过相应过程将此影响上报给 CRNC。

当公共物理信道和/或公共传输信道的能力和/或资源操作状态改变时, Node B 通过发送 RESOURCE STATUS INDICATION 消息报告新的性能和/或资源操作状态, 消息中包含 “Service Impacting” Indication、*Resource Operational State IE* 和 *Availability Status IE*, 这些 IE 根据受到影响将信道设置为适当的值。RESOURCE STATUS INDICATION 消息中的 *Cause IE* 也将被设置为适当的值。

当一个公共物理信道和/或一个公共传输信道的功率值由于 Node B 能力的变化而超出其所支持的功率范围时, 它将通过 RESOURCE STATUS INDICATION 消息上报给 CRNC。其中 *Resource Operational State IE* 被设置为 “Enabled”, *Availability Status IE* 被设置为 “Degraded”, *Cause IE* 被设置为 “Power level not supported”。受影响的信道将采用支持的最接近的功率值。

### (3) 通信控制端口的能力变化

当通信控制端口的资源操作状态改变时, Node B 将通过发送 RESOURCE STATUS INDICATION 消息报告新的资源操作状态, 该消息中包含“Service Impacting” Indication 和 *Communication Control Port ID* IE。RESOURCE STATUS INDICATION 消息中的 *Cause* IE 将被设置为适当的值。

#### (4) Local Cell Group 性能的变化

当 Node B 的 Local Cell Group 的资源能力改变时, Node B 将通过 RESOURCE STATUS INDICATION 消息报告新的能力, 消息中包含“Service Impacting” Indication 和 *Local Cell Group Information* IE。RESOURCE STATUS INDICATION 消息中的 *Cause* IE 将被设置为适当的值。如果 RESOURCE STATUS INDICATION 消息同时包含 “*DL or Global Capacity Credit*” IE 和 “*UL Capacity Credit*” IE, 则 Node B 的内部资源能力在上行链路和下行链路方向上是独立的。如果不包含 “*UL Capacity Credit*” IE, 则 Node B 的内部资源能力为在上行链路和下行链路间的共享资源。

如果 Local Cell Group 中公共信道的 *Capacity Consumption Law* 发生变化, 则新的值将由 Node B 在 *Common Channels Capacity Consumption Law* IE 中报告给 CRNC。

如果 Local Cell Group 中专用信道的 *Capacity Consumption Law* 发生变化, 则新的值将由 Node B 在 *Dedicated Channels Capacity Consumption Law* IE 中报告给 CRNC。

#### (5) 多频点小区, 小区建立成功辅载频发生故障

对于多频点小区, 小区建立成功但辅载频发生故障时, Node B 将立即通过发送 RESOURCE STATUS INDICATION 消息报告故障辅载频的资源操作状态, 该消息中包含“Service Impacting” Indication、*Resource Operational State* IE 和 *Availability Status* IE。RESOURCE STATUS INDICATION 消息中的 *Cause* IE 将被设置为适当的值。

#### (6) 概述

当 RESOURCE STATUS INDICATION 用于报告一个错误, 在一个消息中对于所有的报告对象只发送一个原因值。当 RESOURCE STATUS INDICATION 用于清除错误, 在一条消息中只能清除一个对象的所有错误。对于一个对象, 只清除若干错误中的一个是不可能的。

对于多频点小区, NodeB 需要具有向 RNC 指示每个载频逻辑资源容量的状态信息的能力。指示方法可以参考附录 A。

### 8.2.15.3 异常情况

## 8.2.16 系统信息更新

### 8.2.16.1 概述

该过程完成在 BCCH 上广播的系统信息段的调度和内容的更新。

### 8.2.16.2 成功的操作

成功操作时, 系统信息更新过程如图 22 所示。

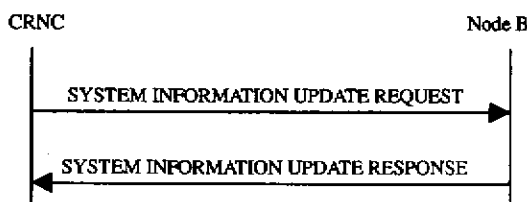


图 22 系统信息更新过程, 成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 SYSTEM INFORMATION UPDATE REQUEST 消息发起。

请求更新的 BCCH 调度信息与 SYSTEM INFORMATION UPDATE REQUEST 消息中含有的 MIB/SB/SIB 信息具有相同的顺序。

如果 SYSTEM INFORMATION UPDATE REQUEST 消息包含 *BCCH Modification Time IE*, SYSTEM INFORMATION UPDATE REQUEST 消息中指示的更新的 BCCH 调度 (可能包括 IB 事件增加、删除、内容更新) 将在 *BCCH Modification Time IE* 设置的 SFN 值开始执行。如果不包含 *BCCH Modification Time IE*, 则对 BCCH 调度的更新将尽快执行。

#### (1) 信息块增加

如果 SYSTEM INFORMATION UPDATE REQUEST 消息中包含某个 MIB/SB/SIB 的段, Node B 就认为信息块所有的段都包含在消息中并且按照升序排列 (从 0 开始)。对于每个段来讲, 段的类型信息以及 *IB SG POS IE* 都将包含在 SYSTEM INFORMATION UPDATE REQUEST 消息中。

Node B 将根据 SYSTEM INFORMATION UPDATE REQUEST 消息中提供的调度参数来决定传输系统信息段中正确的小区系统帧号 (SFN)。用于发送的 SFN 由 *SIB SG REP IE* 和 *SIB SG POS IE* 决定:

$$\text{SFN mod IB\_SG\_REP} = \text{IB\_SG\_POS}$$

如果 SYSTEM INFORMATION UPDATE REQUEST 消息除了 SIB 或 SB 外还包含主系统信息块(MIB), 那么 Node B 将首先在物理信道发送 MIB。一旦 MIB 段被发送完后, Node B 将随后在物理信道发送更新的 SB 以及 SIB。

根据 3GPP TS 25.331, 只有在 BCCH 的调度信息中每个新的 IB 段的内容组合为一个有效的段组合时, Node B 才会接受系统信息更新。

如果 *SIB Originator IE* 值设置为“Node B”, Node B 将使用 *IB Type IE* 中给出的 SIB 类型建立 SIB 段, 自动更新 SIB 段, 并且能够按照 *IB SG REP IE* 和 *IB SG POS IE* 中给出的调度和重复周期调度系统信息块。

由 Node B 发起的 SIB 仅包含那些 Node B 从自身获取内容的 SIBs。

#### (2) 信息块删除

如果 *IB Deletion* 指示包含在 SYSTEM INFORMATION UPDATE REQUEST 消息的 *MIB/SB/SIB information IE* 中, Node B 将在 BCCH 的传输调度中删除由 *IB Type IE* 和 *IB OC ID IE* 指示的 SIB。

#### (3) 信息块更新

如果 SYSTEM INFORMATION UPDATE REQUEST 消息中包含一个信息块, 这个信息块中不包含 *IB SG REP IE* 和 *IB SG POS IE*, 而且在此之前, 如果 BCCH 调度信息中已经存在一个与系统信息更新消息中所带的信息块具有相同的 *IB Type* 和 *IB OC ID* 的信息块, 而且在 SYSTEM INFORMATION UPDATE REQUEST 消息的 *MIB/SB/SIB information IE* 中的 IB 删除指示中没有被从 BCCH 调度信息中删除, 那么 Node B 将只更新 IB 段的内容而不对段调度信息中的任何信息进行修改。

如果 Node B 根据 SYSTEM INFORMATION UPDATE REQUEST 消息中给出的参数成功地完成了对物理信道调度周期的更新, 它将使用 SYSTEM INFORMATION UPDATE RESPONSE 消息对 CRNC 进行响应。

### 8.2.16.3 不成功的操作

不成功操作时, 系统信息更新过程如图 23 所示。



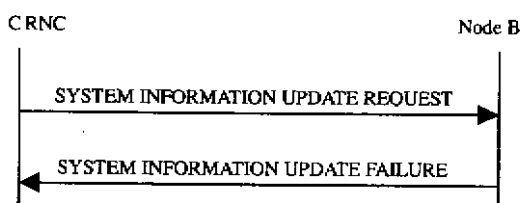


图 23 系统信息更新，不成功的操作

如果 Node B 不能根据 SYSTEM INFORMATION UPDATE REQUEST 消息中给出的所有参数更新物理信道的调度周期，它将使用带有适当原因值的 SYSTEM INFORMATION UPDATE FAILURE 消息进行响应。Node B 将不会在物理信道调度周期中合并任何的请求的变化，原来的系统消息将保持不变。

可能的原因值有：

(1) 无线网络层原因

Node B 不支持应由其发起 SIB。

(2) 其他原因

- 硬件失败；
- 控制处理过载；
- O&M 干涉。

#### 8.2.16.4 异常情况

Node B 将以原因值为“SIB origination in Node B not supported”拒绝由 Node B 发起的使用 value tag 值的系统信息块请求。

如果存在下列情况，Node B 将以原因值为“BCCH scheduling error”拒绝请求的更新：

- 在处理某个 *MIB/SB/SIB information IE* 重复后，出现了一个非法的 BCCH 调度；
- 如果一个 *MIB/SB/SIB information IE* 的重复消息中包含一个 *IB SG REP IE* 或者一个 *IB SG POS IE*，且在 BCCH 调度信息中已经存在一个与系统信息更新的消息中所带的信息块具有相同的 *IB Type* 和 *IB OC ID* 信息块，并且在 IB 段的增加指示之前，在 SYSTEM INFORMATION UPDATE REQUEST 消息中的 *MIB/SB/SIB information IE* 的 IB 删除指示中没有被从 BCCH 调度信息中删除；

— 如果重复的 *MIB/SB/SIB information IE* 不包含 *IB SG REP IE* 和 *IB SG POS IE*，并且在 BCCH 调度信息上没有具有相同的 *IB Type* 和 *IB OC ID* 的信息块；

— 如果一个重复的 *MIB/SB/SIB information IE* 不包含 *IB SG REP IE* 和 *IB SG POS IE*，在 BCCH 调度信息中已经存在一个与系统信息更新的消息中所带的信息块具有相同的 *IB Type* 和 *IB OC ID* 的信息块，而且在 IB 段的增加被指示之前，在 SYSTEM INFORMATION UPDATE REQUEST 消息中的 *MIB/SB/SIB information IE* 的 IB 删除指示中它被从 BCCH 调度信息中删除。

#### 8.2.17 无线链路建立

##### 8.2.17.1 概述

该过程用于在 Node B 中为新的 Node B 通信上下文建立必需的资源。

无线链路建立过程用于建立一条包括一条或多条传输信道的无线链路。传输信道可以是 DCHs、DSCHs 和 USCHs，也可以包含一条或者多条前面没有提到的传输信道类型的组合。

## 8.2.17.2 成功的操作

成功操作时，无线链路建立过程如图 24 所示。

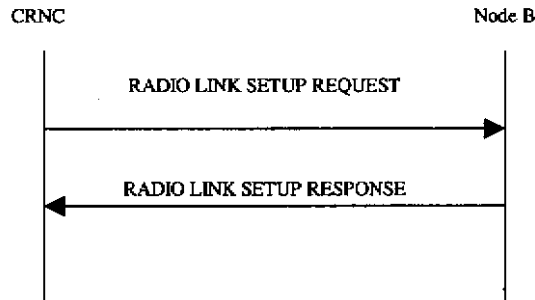


图 24 无线链路建立过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 RADIO LINK SETUP REQUEST 消息发起。

一旦收到 RADIO LINK SETUP REQUEST 消息，Node B 将保留必需的资源并根据消息中给出的参数配置新的无线链路。

(1) 传输信道处理

如果有 *DCH Information IE*，Node B 将根据当前消息中的参数重配置新的 DCH。

如果 RADIO LINK SETUP REQUEST 消息中的 *DCH Info IE* 包含若干 *DCH Specific Info IE*，那么 Node B 将认为 *DCH Info IE* 中的 DCH 是一组协同的 DCHs (co-ordinated DCHs)。Node B 只有在新的配置中包含所有的 DCHs 时，才能在新配置中将这组 DCHs 包含进来。

对于一组协同 DCHs，如果标识传输信道 BER 的 *QE-Selector IE* 被设置为“selected”，则传输信道 BER 将被用于 UL 数据帧的 QE。

对于一个 DCH 或一组协同的 DCH 集，Node B 应该用消息中包含的 *UL FP Mode IE* 作为该 DCH 或协同 DCH 集用户平面上行链路的 DCH 帧协议模式。

对于一个 DCH 或一组协同的 DCH 集，Node B 应该用消息中包含的 *ToAWS IE* 作为该 DCH 或协同 DCH 集用户平面上的到达窗口起始点时间。

对于一个 DCH 或一组协同的 DCH 集，Node B 应该用此消息中包含的 *ToAWE IE* 作为该 DCH 或协同 DCH 集用户平面上的到达窗口终止点时间。

对于每个传输信道，当 Node B 中的新的 RL 配置被激活，无线接口出现拥塞时，*Frame Handling Priority IE* 将用于区分下行链路上不同帧的优先级。

Node B 在 RADIO LINK SETUP RESPONSE 消息的 *DCH Information Response IE* 中包含这个无线链路中每个 DCH 传输承载建立所需的 *Binding ID IE* 和 *Transport Layer Address IE*。

在协同 DCHs 中，*Binding ID IE* 和 *Transport Layer Address IE* 只能包含在 RADIO LINK SETUP RESPONSE 消息中的一组协同信道的一个 DCH 中。

a) DSCH(s)

如果有 *DSCH Information IE*，Node B 将根据消息中给出的参数配置新的 DSCH。

Node B 在 RADIO LINK SETUP RESPONSE 消息的 *DSCH Information Response IE* 中包含为这个 RL 的每个 USCH 传输承载建立所需的 *Binding ID IE* 和 *Transport Layer Address IE*。

b) USCH(s)

如果有 *USCH Information IE*, Node B 将根据消息中给出的参数配置新的 USCH。

当有 *USCH Information IE* 时, Node B 将在 RADIO LINK SETUP RESPONSE 消息的 *USCH Information Response IE* 中包含对这个 RL 的每个 USCH 建立传输承载所需的 *Binding ID IE* and *Transport Layer Address IE*。

## (2) 物理信道处理

### a) PDSCH RL ID

如果 RADIO LINK SETUP REQUEST 消息中包含 *PDSCH RL ID IE*, Node B 将把 PDSCH RL ID 用作这条无线链路上的 PDSCH 和/或 PUSCH 的标识。

### b) 概述

Node B 会将消息中包含的 *UL SIR Target IE* 用作上行内环功控的初始上行 SIR 目标值。

如果 *UL CCTrCH Information IE* 包含 *TDD TPC UL Step Size IE*, Node B 将把上行 TPC Step Size 设定为给定值。

## (3) 无线链路处理

### a) 下行功率控制

在 RL 获得 Uu 接口上行同步之前, Node B 用消息中指定的初始下行功率在 RL 中每个时隙, 每个下行 DPCH 发起下行传输。在这期间不用内环功率控制。随后, 下行功率将依据内环功控而变化, 但将始终保持在 RADIO LINK SETUP REQUEST 消息所指定的最大和最小功率范围内。

如果 RADIO LINK SETUP REQUEST 消息中包含 *DL Time Slot ISCP Info LCR IE*, Node B 将在为每个时隙确定初始下行发送功率时考虑这个值。如果下行链路某些时隙的干扰降低, 那么 Node B 可以降低相应时隙的下行发送功率, 如果某些时隙的干扰增强, Node B 可以提高相应时隙的下行发送功率。无线链路总的下行发送功率保持恒定。

### b) 上行同步参数 LCR

如果 RADIO LINK SETUP REQUEST 消息中包含 *Uplink Synchronisation Parameters LCR IE*, Node B 在上行同步时将采用 *Uplink Synchronisation Step Size IE* 和 *Uplink Synchronisation Frequency IE* 所指定的值。

### c) 概述

无线链路成功建立后, Node B 将开始在新的无线链路上接收数据。

## (4) 响应消息

如果成功建立了无线链路, Node B 将发送一条 RADIO LINK SETUP RESPONSE 响应消息。

发送了 RADIO LINK SETUP RESPONSE 响应消息后, Node B 将持续尝试获取 Uu 接口的上行同步。如 3GPP TS 25.427 中所述, Node B 将立即开始在新的无线链路上的发送。

### 8.2.17.3 不成功的操作

不成功操作时, RL 建立过程如图 25 所示。

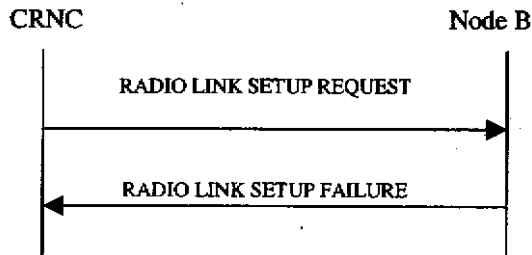


图 25 RL 建立过程, 不成功的操作

如果至少有一个无线链路建立不成功，Node B 将用 RADIO LINK SETUP FAILURE 消息响应。消息在 Cause IE 中包含失败原因。

典型的原因值有：

(1) 无线网络层原因

- 组合不支持；
- 组合资源不可用；
- 请求的发射分集模式不支持；
- 下行码的个数不支持；
- 上行码的个数不支持；
- 上行链路扩频因子不支持；
- 下行链路扩频因子不支持；
- 专用传输信道类型不支持；
- 下行共享信道类型不支持；
- 上行共享信道类型不支持。

(2) 传输层原因

传输资源不可得。

(3) 其他原因

- O&M 干涉；
- 控制处理过载；
- HW 失败。

#### 8.2.17.4 异常情况

如果对于一组协同 DCHs 有多于一个 DCH 或没有 DCH 的 *QE-Selector* IE 被设置为 “selected”，Node B 将认为无线链路建立过程失败并发送 RADIO LINK SETUP FAILURE 响应消息。

如果 RADIO LINK SETUP REQUEST 消息中的 *DCH Information* IE 包含多个 *DCH Specific Info* IEs，但这些 DCHs 的 *DCH Information* IE 中的 *Semi-static Transport Format Information* IE 没有相同的 *Transmission Time Interval* IE，则 Node B 将发送 RADIO LINK SETUP FAILURE 消息拒绝这条无线链路的建立。

对于多频点小区，如果 RADIO LINK SETUP REQUEST 消息中不包含 *UARFCN* IE，则 Node B 将发送 RADIO LINK SETUP FAILURE 消息拒绝完成无线链路建立过程。

对于只配置一个载频的小区，如果 RADIO LINK SETUP REQUEST 消息中包含 *UARFCN* IE，则 Node B 将发送 RADIO LINK SETUP FAILURE 消息拒绝完成无线链路建立过程。

#### 8.2.18 物理共享信道重配置

##### 8.2.18.1 概述

该过程用于在 Node B 中处理 PDSCH 集和 PUSCH 集，

- 增加新的 PDSCH 集和/或 PUSCH 集；
- 修改它们；和
- 删除它们。

### 8.2.18.2 成功的操作

成功操作时，物理共享信道重配置过程如图 26 所示。

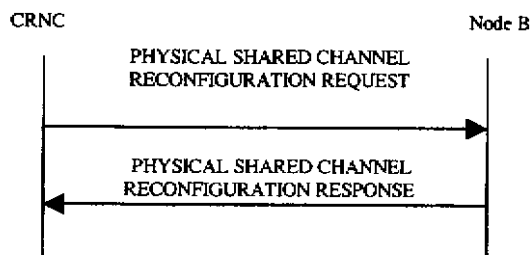


图 26 物理共享信道重配置过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息发起。

如果 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息包含一个 *SFN IE*，Node B 将在指定的 *SFN* 上激活新配置。

#### (1) PDSCH/PUSCH 的增加

如果 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息包含任何要增加的 PDSCH 集或者 PUSCH 集，那么 Node B 将在 PDSCH/PUSCH 的配置上增加这些新集。

#### (2) PDSCH/PUSCH 的修改

如果 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息包含任何修改的 PDSCH 集或者 PUSCH 集，而且包含 *DL/UL Code Information LCR IE*、*Midamble shift LCR IE*、*Time Slot LCR IE*、*TDD Physical Channel Offset IE*、*Repetition Period IE*、*Repetition Length IE* 或者是 *TFCI presence IE*，那么 Node B 将把它们作为新值加以应用，否则保持原值。

#### (3) PDSCH/PUSCH 的删除

如果 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息包含要删除的 PDSCH 集或者 PUSCH 集，那么 Node B 将从 PDSCH/PUSCH 的配置中删除这些新集。

在成功的情况下，Node B 将按照 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息的要求在公共传输信道数据库中增加、修改和删除 PDSCH 集和 PUSCH 集，并且使它们适用于当前的和以后的 DSCH 和 USCH 传输信道。与此同时 Node B 将使用 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE 作为响应。

#### (4) 上行同步参数 LCR

如果 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息中包含 *Uplink Synchronisation Parameters LCR IE*，Node B 在上行同步时将采用 *Uplink Synchronisation Stepsize IE* 和 *Uplink Synchronisation Frequency IE* 所指定的值。

### 8.2.18.3 不成功的操作

不成功操作时，物理共享信道重配置过程如图 27 所示。

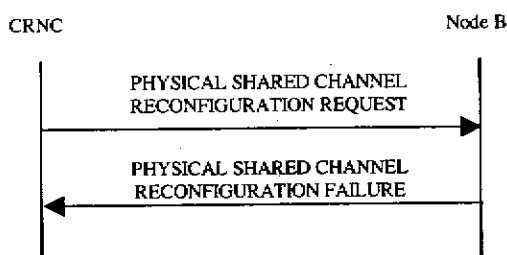


图 27 物理共享信道重配置，不成功的操作

如果 Node B 不能支持配置的所有部分，它将拒绝对 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST 消息中的所有信道进行配置。Cause IE 将被设置为适当的值，这个原因值或者是单个通用的原因值，或者是与每个引起失败的特定 PDSCH 以及 PUSCH 集有关的值。对于 PDSCH 集，该值在 *Unsuccessful Shared DL Channel Set IE* 中；对于 PUSCH 集，该值在 *Unsuccessful Shared UL Channel Set IE* 中。

如果配置不成功，Node B 将使用 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE 消息进行响应。

典型的原因值如下：

(1) 无线网络层原因

- 小区不可用；
- Node B 资源不可用。

(2) 传输层原因

传输资源不可用。

(3) 其他原因

- O&M 干涉；
- 控制处理过载；
- HW 失败。

8.2.18.4 异常情况

8.2.19 复位

8.2.19.1 概述

复位过程的目的是在异常失败的情况下对 CRNC 和 Node B 中的资源进行校准。CRNC 或者 Node B 都可以发起该过程。

8.2.19.2 成功的操作

8.2.19.2.1 由 CRNC 发起的复位过程

成功操作时，复位过程（CRNC 到 Node B）如图 27A 所示。

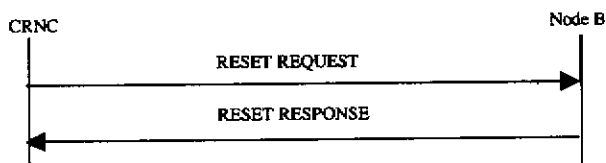


图 27A 复位过程 (CRNC 到 Node B), 成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 RESET REQUEST 消息发起。

如果 *Reset Indicator IE* 被设置为 “Communication Context”，Node B 将删除所有由 *Node B Communication Context ID IE* 指示的 Node B 通信上下文以及分配给这些 Node B 通信上下文的所有无线资源。Node B 还将发起释放与这些上下文相关的用户平面传送承载。在释放相关的资源后，Node B 将向 CRNC 返回 RESET RESPONSE 消息。

如果 *Reset Indicator IE* 被设置为 “Communication Control Port”，Node B 将删除所有的经由指定的通信控制端口控制的 Node B 通信上下文以及分配给这些 Node B 通信上下文的所有无线资源。Node B 还将发起释放与这些上下文相关的用户平面传送承载。在清除释放所有相关的资源后，Node B 将向 CRNC 返回 RESET RESPONSE 消息。

如果 *Reset Indicator IE* 被设置为 “Node B”，Node B 将删除所有 Node B 中的 Node B 通信上下文以及分配给这些 Node B 通信上下文的所有无线资源。Node B 还将发起释放与这些上下文相关的用户平面传送承载。在释放所有相关的资源后，Node B 将向 CRNC 返回 RESET RESPONSE 消息。

#### 8.2.19.2.2 由 Node B 发起的复位过程

成功操作时，重配置过程（Node B 到 CRNC）如图 27B 所示。

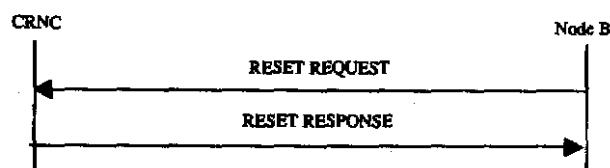


图 27B 重置过程 (Node B 到 CRNC), 成功的操作

该过程由 Node B 通过 Node B 控制端口发送到 CRNC 的 RESET REQUEST 消息发起。

如果 *Reset Indicator IE* 被设置为 “Communication Context”，对于所有由 *CRNC Communication Context ID IE* 指示的 CRNC 通信上下文，CRNC 将删除与这个 Node B 有关的信息以及 CRNC 中分配的所有无线资源。CRNC 也将发起释放与指定 CRNC 通信上下文相关的 Node B 的用户平面传送承载。在释放所有相关的资源后，CRNC 将向 Node B 返回 RESET RESPONSE 消息。

如果 *Reset Indicator IE* 被设置为 “Communication Control Port”，对于所有由指定的通信控制端口控制的 CRNC 通信上下文，CRNC 将删除所有的与这个 Node B 有关的信息以及在这个 CRNC 中分配的所有无线资源。CRNC 也将发起释放对于 Node B 经由通信控制端口的这些 CRNC 上下文相关的用户平面的传送承载。在释放所有相关的资源后，CRNC 将向 Node B 返回 RESET RESPONSE 消息。

如果 *Reset Indicator IE* 被设置为 “Node B”，对所有与这个 Node B 相关的 CRNC 通信上下文，CRNC 将删除与这个 Node B 有关的信息以及由这个 CRNC 分配的所有无线资源。CRNC 也将发起释放与这个 Node B 有关的 CRNC 通信上下文对相关 Node B 的用户平面传送承载。在释放所有相关的资源后，CRNC 将向 Node B 返回 RESET RESPONSE 消息。

#### 8.2.19.3 不成功的操作

#### 8.2.19.4 异常情况

如果收到 RESET REQUEST 消息，任何正在进行的与 CRNC 中的 CRNC 通信上下文相关的，或是 Node B 中与 Node B 通信上下文相关的并在消息中指示的（明示或者暗示）的过程将被中断。

## 8.2.20 消息互换初始化

### 8.2.20.1 概述

该过程是由 CRNC 发起，请求 Node B 发起消息提供。

### 8.2.20.2 成功的操作

成功操作时，消息互换初始化过程如图 27L 所示。

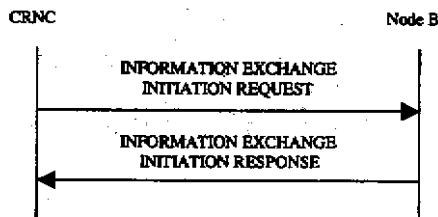


图 27L 消息互换初始化过程，成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 INFORMATION EXCHANGE INITIATION REQUEST 消息发起。

收到请求后，Node B 将根据 *Information Type Item IE* 提供请求的信息。除了在下面描述的，参数的意义在其他标准中还有相应的描述。

#### (1) 消息报告特性

*Information Report Characteristics IE* 指示了如何进行消息的报告。

如果 *Information Report Characteristics IE* 被设置为“On Demand”，Node B 将立即上报请求的信息。

如果 *Information Report Characteristics IE* 被设置为“Periodic”，Node B 将立即上报请求的信息，然后按照请求的周期，周期性发起请求的消息报告过程。

如果 *Information Report Characteristics IE* 被设置为“On Modification”，Node B 将立即上报请求的信息，并且根据 *Information Type IE* 的相关条件发起消息报告过程。

a) 如果 *Information Type Item IE* 被设置为“DGPS Corrections”，当 *PRC* 的值与原值的偏移高出 *PRC Deviation IE* 标识的门限值或 *IODE* 发生变化时，Node B 将触发消息报告过程。

b) 如果 *Information Type Item IE* 被设置为“GPS Information”并且 *GPS Information Item IE* 包含“GPS Navigation Model & Time Recovery”，当 *IODC* 或由 *SatID IEs* 标识的可见人造卫星的列表发生变化时，Node B 将为此特定 GPS 消息项触发消息报告过程。

c) 如果 *Information Type Item IE* 被设置为“GPS Information”并且 *GPS Information Item IE* 包含“GPS Ionospheric Model”，当发生任何变化时，Node B 将为此特定 GPS 消息项触发消息报告过程。

d) 如果 *Information Type Item IE* 被设置为“GPS Information”并且 *GPS Information Item IE* 包含“GPS UTC Model”，当 *t\_ot* 参数发生变化时，Node B 将为此特定 GPS 消息项触发消息报告过程。

e) 如果 *Information Type Item IE* 被设置为“GPS Information”并且 *GPS Information Item IE* 包含“GPS Almanac”，当发生任何变化时，Node B 将为此特定 GPS 消息项触发消息报告过程。

f) 如果 *Information Type Item IE* 被设置为“GPS Information”并且 *GPS Information Item IE* 包含“GPS Real-Time Integrity”，当发生任何变化时，Node B 将为此特定 GPS 消息项触发消息报告过程。

#### (2) 响应消息



如果 Node B 能够提供 CRNC 请求的消息，它将发送 INFORMATION EXCHANGE INITIATION RESPONSE 消息作为响应。这个消息包含与 INFORMATION EXCHANGE REQUEST 消息相同的 *Information Exchange ID*。当 *Report Characteristics* 被设置为“On Demand”、“On Modification”或“Periodic”，INFORMATION EXCHANGE INITIATION RESPONSE 消息将包含请求的数据。

### 8.2.20.3 不成功的操作

不成功操作时，消息互换初始化过程如图 27M 所示。

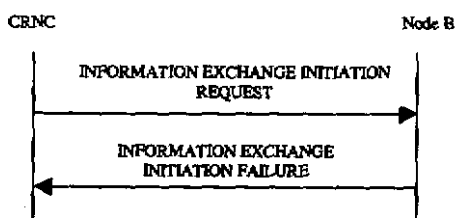


图 27M 消息互换初始化过程，不成功的操作

如果 *Information Type Item IE* 标识的消息类型项指示的信息的类型不支持，Node B 将认为消息互换初始化过程失败。

如果不能发起请求的信息提供，Node B 将发送 INFORMATION EXCHANGE INITIATION FAILURE 消息。消息中包含与 INFORMATION EXCHANGE INITIATION REQUEST 消息中相同的 *Information Exchange ID*，*Cause IE* 被设置为合适的值。

典型的原因值如下：

#### (1) 无线网络层原因

- 信息临时不可得；
- 信息提供不支持。

### 8.2.20.4 异常情况

如果 *Information Report Characteristics IE* 被设置为“On Modification”，*Information Type Item IE* 被设置为“DGPS Corrections”，但 INFORMATION EXCHANGE INITIATION REQUEST 消息中没有 *Information Threshold IE* 时，Node B 将认为消息互换初始化过程失败。

### 8.2.21 消息报告

#### 8.2.21.1 概述

该过程是 Node B 用来向 CRNC 提供由消息互换初始化过程请求的消息报告。

#### 8.2.21.2 成功的操作

成功操作时，消息报告过程如图 27N 所示。



图 27N 消息报告过程，成功的操作

如果满足请求的报告条件, Node B 将触发消息报告过程。INFORMATION REPORT 消息用到 Node B 控制端口。除了在下面描述的, 参数的意义在其他标准中还有相应的描述。

当通过消息互换初始化过程发起消息互换过程时, *Information Exchange ID* IE 将被设置为 CRNC 提供的 *Information Exchange ID*。

*Requested Data Value* IE 至少要包含一个带有数据的 IE。

### 8.2.21.3 异常情况

## 8.2.22 消息互换终止

### 8.2.22.1 概述

该过程是 CRNC 用来终止先前触发的消息互换初始化过程。

### 8.2.22.2 成功的操作

成功操作时, 消息互换终止过程如图 27O 所示。

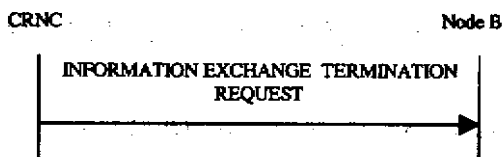


图 27O 消息互换终止过程, 成功的操作

该过程由 CRNC 通过 Node B 控制端口发送到 Node B 的 INFORMATION EXCHANGE TERMINATION REQUEST 消息发起。收到此消息后, Node B 将终止对应于 *Information Exchange ID* 消息的发送。

### 8.2.22.3 异常情况

## 8.2.23 消息互换失败

### 8.2.23.1 概述

该过程是 Node B 用来通知 CRNC 不能再报告先前由消息互换初始化过程请求的信息。

### 8.2.23.2 成功的操作

成功操作时, 消息互换失败过程如图 27P 所示。



图 27P 消息互换失败过程, 成功的操作

该过程由 Node B 通过 Node B 控制端口发送到 CRNC 的 INFORMATION EXCHANGE FAILURE INDICATION 消息发起, 通知 CRNC 不能再报告先前由消息互换初始化过程发起的请求信息。这个消息包含和 INFORMATION EXCHANGE INITIATION REQUEST 消息中相同的 *Information Exchange ID*, 并将 *Cause* IE 设为合适的值。

### 8.3 NBAP 专用过程

#### 8.3.1 无线链路增加

##### 8.3.1.1 概述

该过程用于 Node B 中已有对于一个 UE 的 Node B 通信上下文时，在 Node B 中为这个 UE 增加一条 RL。

如果存在 *Prepared Reconfiguration*，那么 RADIO LINK ADDITION 过程将不被触发。

##### 8.3.1.2 成功的操作

成功操作时，RL 增加过程如图 28 所示。

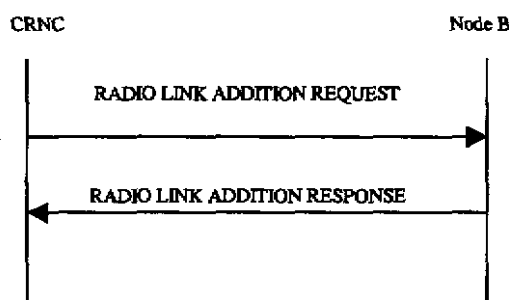


图 28 RL 增加过程，成功的操作

该过程由 CRNC 通过分配给相关 Node B 通信上下文的通信控制端口发送到 Node B 的 RADIO LINK ADDITION REQUEST 消息发起。

一旦收到此消息，Node B 将根据消息中给出的参数保留必需的无线资源并配置新的 RL。除了在下面描述的，参数的意义在其他标准中描述。

##### (1) 物理信道处理

如果出现 *UL DPCH Information IE*，Node B 将根据消息中给出的参数配置新的上行 DPCH(s)。

如果出现 *DL DPCH Information IE*，Node B 将根据消息中给出的参数配置新的下行 DPCH(s)。

如果出现 *UL CCTrCH Information IE*，Node B 将根据消息给出的参数配置新的上行 CCTrCH。

如果 *UL CCTrCH Information IE* 中包含 *TDD TPC UL Step Size IE*，Node B 将根据消息中给出的参数配置新的上行 TPC 步长，否则将使用其他 RL 中分配的步长。

如果出现 *DL CCTrCH Information IE*，Node B 将根据消息给出的参数配置新的下行 CCTrCH。

如果 *DL CCTrCH Information IE* 中包含 *TDD TPC DL Step Size IE*，Node B 将根据消息中给出的参数配置新的下行 TPC 步长，否则将使用其他 RL 中分配的步长。

##### (2) 无线链路处理

###### a) 分集合并控制 (Diversity Combination Control)

*Diversity Control Field IE* 指示对于每条 RL，Node B 是否将新的 RL 与已存在的 RL 进行组合。

— 如果 *Diversity Control Field IE* 被设置为 “May”，Node B 可做出任何的选择。

— 如果 *Diversity Control Field IE* 被设置为 “Must”，Node B 将会把这条无线链路和其他无线链路组合起来。

— 如果 *Diversity Control Field IE* 被设置为 “Must not”，Node B 将不会将无线链路进行组合。

当一条新的 RL 被组合时，Node B 将选择它和哪条 RL(s) 进行组合。

当 RL 没有和由 Radio Link Setup 或 Radio Link Addition 过程中建立的 RL 或 RADIO LINK ADDITION RESPONSE 消息中指示的 RL 进行组合时, Node B 将在 RADIO LINK ADDITION RESPONSE 消息中的 *RL Information Response IE* 中的 Diversity Indication 中指示没有组合。在这种情况下, Node B 将在 RADIO LINK ADDITION RESPONSE 消息中的 *DCH Information Response IE* 中包含为 RL 的每个 DCH 建立的传输承载对应的 *Transport Layer Address IE* 和 *Binding ID IE*。

当 RL 和由 Radio Link Setup 或 Radio Link Addition 过程建立的 RL 或 RADIO LINK ADDITION RESPONSE 消息中指示的 RL 进行组合时, Node B 将在 RADIO LINK ADDITION RESPONSE 消息中的 *RL Information Response IE* 中的 Diversity Indication 中指示这种组合。在这种情况下, *RL ID IE* 将指示和新的 RL 进行组合的预先建立的 RL 或 RADIO LINK ADDITION RESPONSE 消息中的指示的已经建立好的 RL。

当存在协同 DCHs 时, *Transport Layer Address IE* 和 *Binding ID IE* 只能包含在协同 DCHs 的一个 DCH 中。

Node B 在 RADIO LINK ADDITION RESPONSE 消息中包含为每个 DSCH 和 USCH 建立的传输承载的 *Transport Layer Address IE* 和 *Binding ID IE*。

#### b) 下行功率控制

如果 RADIO LINK ADDITION REQUEST 消息中包含 *Initial DL Transmission Power IE*, 在 RL 获得 Uu 接口上行同步之前, Node B 将用消息中指定的初始下行功率在 RL 中每个时隙, 每个下行 DPCH 发起下行传输。如果没有包含 *Initial DL Transmission power IE*, Node B 将使用该 Node B Communication Context 中现已存在的 RL 的功率作为初始功率。在这期间不用内环功率控制。随后下行功率将依据内环功控而变化。

如果 RADIO LINK ADDITION REQUEST 消息包含 *Maximum DL power IE*, Node B 将存储这个值并且不能在任何下行 DPCH 上使用更高的功率传输。如果不包含 *Maximum DL power IE*, Node B 将使用该 Node B Communication Context 中现已存在 RL 所保存的最大下行链路功率作为自己的最大下行发送功率。

如果 RADIO LINK ADDITION REQUEST 消息包含 *Minimum DL power IE*, Node B 将存储这个值并且不能在任何下行 DPCH 上使用更低的功率传输。如果不包含 *Minimum DL power IE*, Node B 将使用该 Node B Communication Context 中现已存在的 RL 所保存的最小下行链路功率作为自己的最小下行发送功率。

如果 RADIO LINK ADDITION REQUEST 消息中包含 *DL Time Slot ISCP Info LCR IE*, Node B 将在为每个时隙确定发送功率时考虑这个值。如果下行链路某些时隙的干扰较低, 那么 Node B 可以降低相应时隙的下行发送功率, 如果某些时隙的干扰较强, Node B 可以提高相应时隙的下行发送功率。无线链路总的下行发送功率保持恒定。

#### c) 上行同步参数

如果 RADIO LINK ADDITION REQUEST 消息中包含 *Uplink Synchronisation Parameters LCR IE*, Node B 将在上行同步时考虑 *Uplink Synchronisation Stepsize IE* 和 *Uplink Synchronisation Frequency IE*。

#### d) 概述

当无线链路成功建立后, Node B 将开始在新的无线链路上接收。

#### (3) 响应消息

如果请求的 RL 增加成功, Node B 将使用 RADIO LINK ADDITION RESPONSE 消息进行响应。

在发送 RADIO LINK ADDITION RESPONSE 消息后, Node B 将持续尝试获取 Uu 口上的上行同步并

按照 3GPP TS 25.427 中所述立即开始在新的 RL 上发送。

### 8.3.1.3 不成功的操作

不成功操作时，RL 增加过程如图 29 所示。

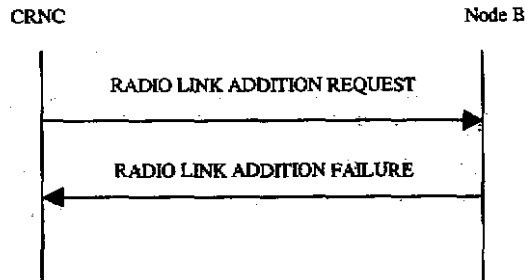


图 29 RL 增加过程，不成功的操作

只要有一条无线链路建立不成功，Node B 将回复一个 RADIO LINK ADDITION FAILURE 消息。这个消息中包含指示错误原因的 Cause IE。

典型的原因值如下：

#### (1) 无线网络层原因

- 组合不支持；
- 组合资源不可用；
- 请求的发射分集不支持；
- 上行链路扩频因子不支持；
- 下行链路扩频因子不支持；
- 重配置 CFN 未消失。

#### (2) 传输层原因

传输资源不可用。

#### (3) 其他原因

- O&M 干涉；
- 控制处理过载；
- HW 失败。

### 8.3.1.4 异常情况

对于多频点小区，而 RADIO LINK ADDITION REQUEST 消息中不包含 UARFCN IE，则 Node B 将发送 RADIO LINK ADDITION FAILURE 消息拒绝完成无线链路增加过程。

对于只配置一个载频的小区，如果 RADIO LINK ADDITION REQUEST 消息中包含 UARFCN IE，则 Node B 将发送 RADIO LINK ADDITION FAILURE 消息拒绝完成无线链路增加过程。

## 8.3.2 同步无线链路重配置准备

### 8.3.2.1 概述

同步无线链路重配置准备过程用于为无线链路准备一个新的配置。

如果准备好的重配置已经存在，同步无线链路重配置准备过程将不被发起。

### 8.3.2.2 成功的操作

成功操作时，同步的无线链路重配置准备过程如图 30 所示。

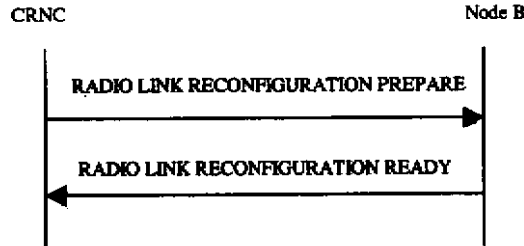


图 30 同步的无线链路重配置准备过程，成功的操作

同步无线链路重配置准备过程由 CRNC 发送到 Node B 的 RADIO LINK RECONFIGURATION PREPARE 消息发起。消息将使用分配给这个 Node B 通信上下文的通信控制端口。

一旦收到，Node B 将根据消息中给出的参数保留对无线链路的新配置所必需的资源。除了下面的描述，参数的含义将在其他协议中进行描述。

#### (1) DCH 修改

如果 RADIO LINK RECONFIGURATION PREPARE 消息中包含任何的 *DCHs to Modify IE*，那么 Node B 将进行如下处理：

- 如果 *DCHs to Modify IE* 包含 *Frame Handling Priority IE*，Node B 将在新配置中为 DCH 保存这些信息。收到的帧处理优先级用于一旦新配置激活时，在 Node B 拥塞情况下在无线接口的下行链路上对不同帧的优选。

- 如果 *DCHs to Modify IE* 包含对上行链路 DCH 的 *Transport Format Set IE*，Node B 将在新配置中对这个 DCH 的上行链路应用新的传送格式集。

- 如果 *DCHs to Modify IE* 包含对下行链路 DCH 的 *Transport Format Set IE*，Node B 将在新配置中对这个 DCH 的下行链路应用新的传送格式集。

- 如果 *DCHs to Modify IE* 包含 *Allocation/Retention Priority IE*，Node B 将在新配置中使用新的 Allocation/Retention Priority。

- 如果 *DCHs to Modify IE* 包含多个 *DCH Specific Info IE*，那么 Node B 将把在 *DCH Specific Info IE* 中的 DCH 作为一组协同的 DCH。仅当这些 DCH 能够全部包含于新配置里时，Node B 才能把这些 DCH 包含在新配置中。

- 如果 *DCHs to Modify IE* 对于一条 DCH 或者属于一组协同的 DCH 的 DCH 包含 *UL FP Mode IE*，那么 Node B 将在新配置中为 DCH 或者一组协同的 DCH(s) 在用户平面的上行链路上应用新的帧协议模式。

- 如果 *DCHs to Modify IE* 对于一条 DCH 或者属于一组协同的 DCH(s) 的 DCH 包含 *ToAWS IE*，那么 Node B 将在新配置中为 DCH 或者一组协同的 DCH(s) 在用户平面上应用新的到达窗口起始点时间。

- 如果 *DCHs to Modify IE* 对于一条 DCH 或者属于一组协同的 DCH 的 DCH 包含 *ToAWE IE*，那么 Node B 将在新配置中为 DCH 或者一组协同的 DCH(s) 在用户平面上应用新的到达窗口终止点时间。

- 如果 *DCHs to Modify IE* 对于被修改的 DCH 的下行链路的 DCH 包含 *CCTrCH ID IE*，Node B 将在新配置中对 DCH 的下行链路应用新的 CCTrCH ID。

- 如果 *DCHs to Modify IE* 对于被修改的 DCH 的上行的链路 DCH 包含 *CCTrCH ID IE*，Node B 将在新配置中对 DCH 的上行链路应用新的 CCTrCH ID。

#### (2) DCH 增加

如果 RADIO LINK RECONFIGURATION PREPARE 消息中包含 *DCHs to Add IE*, 那么 Node B 将进行下列操作:

- 如果 *DCHs to Add IE* 包含多个 *DCH specific Info IE*, Node B 将把 *DCHs to Add IE* 中的 DCHs 作为一组协同的 DCH(s)。只有当这些 DCH 都能被包含于新配置中的时候, Node B 才在新配置中包含这些 DCH。

- 对于一组协同的 DCH(s), *QE-Selector IE* 为 “selected” 的 DCH 传输信道 BER 用于上行数据帧的 QE。

- Node B 将把增加 DCH 而收到的 *Frame Handling Priority IE* 存储在新配置中。收到的 *Frame Handling Priority* 将被用于新配置激活后, 一旦在 Node B 中出现拥塞的情况下, 无线接口下行链路上区分不同的帧间的优先次序。

- Node B 将对增加的 DCH 或者一组协同的 DCHs 使用包含的 *UL DCH FP Mode IE*, 并将它作为在新配置中这个 DCH 的用户平面上行链路的新的 DCH FP Mode。

- Node B 将对增加的 DCH 或者一组协同的 DCHs 使用包含的 *ToAWS IE*, 并将它作为在新配置中这个 DCH 的用户平面上的到达窗口开始点时间。

- Node B 将对增加的 DCH 或者一组协同的 DCHs 使用包含的 *ToAWE IE*, 并将它作为在新配置中这个 DCH 的用户平面上或者一组协同的 DCH(s) 的用户平面上的到达窗口结束点时间。

- Node B 将在新配置中对这个 DCH 的下行链路应用 *CCTrCH Id IE* (对于 DL)。

- Node B 将在新配置中对这个 DCH 的上行链路应用 *CCTrCH Id IE* (对于 UL)。

### (3) DCH 删除

如果 RADIO LINK RECONFIGURATION REQUEST 消息中包含 *DCHs to Delete IE*, Node B 将在新配置中不包含删除的 DCH。

如果所有属于同一组协同信道的 DCH(s) 中的 DCH 都被删除, Node B 在新配置中将不包含这组协同的 DCH(s)。

### (4) UL/DL CCTrCH 修改

如果 RADIO LINK RECONFIGURATION PREPARE 消息包含任何 *UL CCTrCH to Modify* 或者 *DL CCTrCH to Modify IE*, 那么 Node B 将对它们进行如下处理:

- 如果 IE 中包括 *TFCS IE*, *TFCI coding IE* 或者 *Puncture limit IE*, 那么 Node B 将把它们作为新值来应用, 否则仍然使用 CCTrCH 的原值。

- 如果 IE 中包括 *UL DPCH to Add* 或者 *DL DPCH to Add IEs*, Node B 将在新配置中包含这个 DPCH。

- 如果 IE 中包含 *UL DPCH to Delete* 或者 *DL DPCH to Delete IEs*, Node B 将在新配置中删除这个 DPCH。

- 如果 IE 中包括任何的 *UL DPCH to Modify* 或者 *DL DPCH to Modify IE*, 而且包含下面参数中的任意一个或多个: *Repetition Period IE*、*Repetition Length IE*, 或者 *TDD DPCH Offset IE*, 或者消息中包含 UL/DL 时隙信息而且包含 *Midamble Shift LCR IE*, 或者 *TFCI presence IE* 或者消息中包含 UL/DL 码信息而且包含 *TDD Channelisation Code LCR IE*, *TDD UL DPCH Time Slot Format LCR IE* 或 *TDD DL DPCH Time Slot Format LCR IE*, 那么 Node B 将把这些规定的 IE 作为新值来应用, 否则保持 DPCH 配置中原值。

- 如果 *UL CCTrCH To Modify IE* 包含 *UL SIR Target IE*, Node B 将在上行内环功控中应用这些新的 IE 值。

— 如果 *UL CCH To Modify* IE 包含 *TDD TPC UL Step Size* IE, Node B 将在新的配置中应用这些新的上行 TPC 步长。

— 如果 *DL CCH To Modify* IE 包含 *TDD TPC DL Step Size* IE, Node B 将在新的配置中应用这些新的下行 TPC 步长。

(5) UL/DL CCH 增加

如果 RADIO LINK RECONFIGURATION PREPARE 消息包含任何 *UL CCH to Add* IE 或者 *DL CCH to Add* IE, Node B 将在新的配置中包含这条 CCH。

如果 *UL/DL CCH to Add* IE 包含任何的 *UL/DL DPCH Information* IE, Node B 将根据消息中给出的参数为 UL/DL DPCH(s) 的新配置保留必要的资源。

如果 RADIO LINK RECONFIGURATION PREPARE 消息中的 *DL CCH To Add* IE 中包含 *TDD TPC DL Step Size* IE, Node B 将会把这条 CCH 的下行 TPC 设置为新值。否则将采用现有所有下行 CCH 中编号最小的 CCH 的下行 TPC 步长。

如果 *UL CCH To Add* IE 包含 *TDD TPC UL Step Size* IE, Node B 将在新的配置中应用这些新的上行 TPC 步长。

如果 *UL CCH To Add* IE 包含 *UL SIR Target* IE, Node B 将在上行内环功控中应用这些新的 IE 值。

(6) UL/DL CCH 删除

如果 RADIO LINK RECONFIGURATION PREPARE 消息包含任何要被删除的 UL CCH 或者 DL CCH, Node B 将在新配置中删除这条 CCH。

(7) DSCH 增加/修改/删除

如果 RADIO LINK RECONFIGURATION PREPARE 消息包含 *DSCH to Add*, *DSCH to Modify* 或 *DSCH to Delete* IEs, Node B 将使用这些信息, 按照与用 DCH 信息来增加/修改/删除 DCH 同样的方式, 从无线链路中增加/修改/删除指示的 DSCH 信道。

Node B 将在 RADIO LINK RECONFIGURATION READY 消息中包含用于为每条 DSCH 建立传输承载的 *Transport Layer Address* IE 和 *Binding ID* IE。

(8) USCH 增加/修改/删除

如果 RADIO LINK RECONFIGURATION PREPARE 消息中包含用于增加/修改/删除 USCH 的信息, 那么 Node B 将使用这些信息, 按照与用 DCH 信息来增加/修改/删除 DCH 同样的方式, 从无线链路增加/修改/删除指示的 USCH 信道。

Node B 将在 RADIO LINK RECONFIGURATION READY 消息中包含用于为每条 USCH 建立传输承载的 *Transport Layer Address* IE 和 *Binding ID* IE。

(9) RL 信息

如果 RADIO LINK RECONFIGURATION PREPARE 消息包含 *RL Information* IE, Node B 将对它进行如下的处理:

— 如果 *RL Information* IE 包含 *Maximum DL Power* 和/或 *the Minimum DL Power* IEs, Node B 将在新配置中应用这个值。

— 如果 *RL Information* IE 包含 *Initial DL Transmission Power* IE, 在新的 CCH 上获得 Uu 接口上行同步之前, Node B 将该 IE 值做为新 CCH 上的每条 DPCH 的初始发送功率。如果在新的 CCH 中没有 *Initial DL Transmission Power* IE, Node B 将采用已经存在的 CCH 的初始发送功率。在这期间



不用内环功率控制。随后，下行功率将依据内环功控而变化。

— 如果 RADIO LINK RECONFIGURATION PREPARE 消息包含 *Uplink Synchronisation Parameters LCR IE*，Node B 在上行同步时将采用消息中包含的 *Uplink Synchronisation Stepsize IE* 和 *Uplink Synchronisation Frequency IE*。

#### (10) 概述

如果请求的修改被 Node B 所允许，而且 Node B 为新配置的无线链路成功的保留了请求的资源，它将向 CRNC 响应 RADIO LINK RECONFIGURATION READY 消息。该过程成功完成后，将存在一个 *Prepared Reconfiguration*。

Node B 将在 RADIO LINK RECONFIGURATION READY 消息中包含每一条要增加的或者通过 *Transport Bearer Request Indicator IE* 请求新传输承载的要修改的传输信道的 *Transport Layer Address IE* 和 *Binding ID IE*。

如果一组协同 DCHs 请求一个新的 Iub 接口上的传送承载，那么包含在 *DCH Information Response IE* 中的 *Transport Layer Address IE* 和 *Binding ID IE* 只能包含在协同 DCHs 的一个 DCH 中。

在 Node B 中一条无线链路和其他的无线链路组合时，*DCH Information Response IE* 中的 *Transport Layer Address IE* 和 *Binding ID IE* 只能包含在一组组合无线链路中的一条中。

#### 8.3.2.3 不成功的操作

不成功操作时，同步的无线链路重配置过程的准备如图 31 所示。

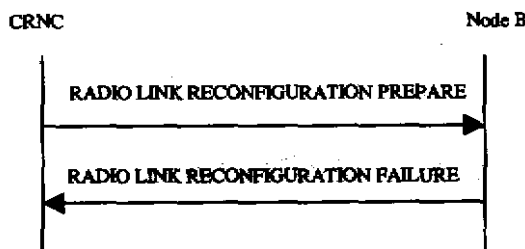


图 31 同步的无线链路重配置过程的准备，不成功的操作

如果 Node B 不能为一组协同 DCHs 中所有的 DCH 保留必需的资源，它将认为同步无线链路重配置过程失败。

如果请求的同步无线链路重配置过程失败，Node B 将发送 RADIO LINK RECONFIGURATION FAILURE 消息给 CRNC，指示失败的原因。

典型的原因值如下：

##### (1) 无线网络层原因

- 上行 SF 不支持；
- 下行 SF 不支持；
- 下行共享信道类型不支持；
- 上行共享信道类型不支持；
- 上行链路信道化码的个数不支持；
- 下行链路信道化码的个数不支持。

##### (2) 传输层原因

传输资源不可用。

(3) 其他原因

- O&M 干涉;
- 控制处理过载;
- HW 失败。

### 8.3.2.4 异常情况

如果一组协同 DCHs 信道中只有一个子集中的 DCH 请求被删除, Node B 将认为同步无线链路重配置准备过程失败, Node B 将发送 RADIO LINK RECONFIGURATION FAILURE 消息给 CRNC。

如果一组协同 DCHs 中超过一条 DCH 的 *QE-Selector* IE 设置为 “selected”, 或者没有协同 DCHs 中的 DCH 的 *QE-Selector* IE 设置为 “selected”, Node B 将认为同步无线链路重配过程失败, 并发送 RADIO LINK RECONFIGURATION FAILURE 消息进行响应。

如果 RADIO LINK RECONFIGURATION PREPARE 消息中的 *DCHs To Modify* IE 或 *DCHs To Add* IE 包含多个 *DCH Specific Info* IEs, 并且 *DCHs To Modify* IE 或 *DCHs To Add* IE 中的 DCHs 在 *Semi-Static Transport Format Information* IE 中包含不同的 *Transmission Time Interval* IE, Node B 将发送 RADIO LINK RECONFIGURATION FAILURE 消息拒绝此过程的执行。

如果 *RL Information* IE 中包含 *UARFCN* IE, 则必须提供新频点下 DPCH 的信息, 否则 Node B 将发送 RADIO LINK RECONFIGURATION FAILURE 消息拒绝同步重配置过程的执行。

## 8.3.3 同步无线链路重配置提交

### 8.3.3.1 概述

该过程用于要求 Node B 切换到 Node B 中 RL 的新配置上, 这个配置是由先前的同步无线链路准备过程准备的。

消息将使用分配给 Node B 通信上下文的通信控制端口。

### 8.3.3.2 成功操作

成功操作时, 同步的无线链路重配置提交过程如图 32 所示。

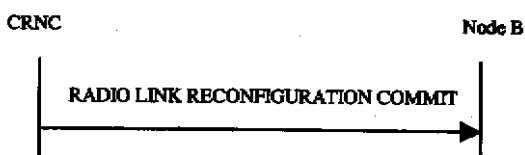


图 32 同步的无线链路重配置提交过程, 成功的操作

当收到从 CRNC 来的 RADIO LINK RECONFIGURATION COMMIT 消息, Node B 将在 CRNC 请求的 CFN 切换到由先前通过同步 RL 重配置过程准备好的新配置。

当该过程完成后, Prepared Reconfiguration 将不再存在。

如果传输信道修改请求建立新的传输承载, 那么将在指定的 CFN 完成到新的传输承载的切换。

### 8.3.3.3 异常情况

如果新的重配置过程中需要建立新的传输承载, 并且在要求的 CFN 不可能执行, 那么 Node B 将发起无线链路失败过程。

### 8.3.4 同步无线链路重配置取消

#### 8.3.4.1 概述

该过程用于要求 Node B 释放 Node B 中 RL 的新配置，这个新配置是由先前的同步无线链路准备过程准备的。

这个消息使用分配给 Node B 通信上下文的通信控制端口。

#### 8.3.4.2 成功的操作

成功操作时，同步的无线链路重配置取消过程如图 33 所示。

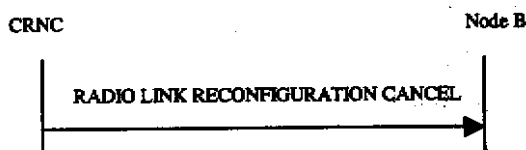


图 33 同步的无线链路重配置取消过程，成功的操作

当从 CRNC 收到 RADIO LINK RECONFIGURATION CANCEL 消息后，Node B 将释放由先前的同步 RL 重配置准备过程准备的新配置，并继续使用旧配置。当该过程完成后 Prepared Reconfiguration 将不再存在。

#### 8.3.4.3 异常情况

### 8.3.5 非同步无线链路重配置

#### 8.3.5.1 概述

非同步无线链路重配置过程用于重配置一个 Node B 内与一个 UE-UTRAN 连接相关的无线链路。

非同步无线链路重配置过程用于没有同步时间要求的重配置。

如果 Prepared Reconfiguration 存在，非同步无线链路重配置过程将不被发起。

#### 8.3.5.2 成功的操作

成功操作时，非同步的无线链路重配置过程如图 34 所示。

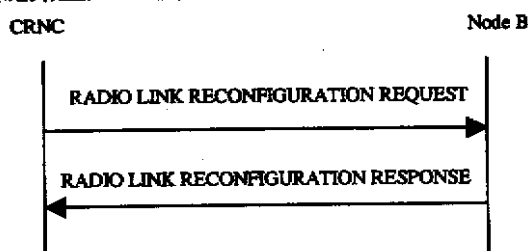


图 34 非同步的无线链路重配置过程成功的操作

非同步无线链路重配置过程由 CRNC 发到 Node B 的 RADIO LINK RECONFIGURATION REQUEST 发起。这个消息使用分配给 Node B 通信上下文的通信控制端口。

一旦收到，Node B 将根据消息中给出的参数修改 RL 的配置。除了下面提到的，参数的意义在其他标准中描述。

Node B 将根据一定的优先级完成 RL(s)的资源分配。

##### (1) DCH 修改

如果 RADIO LINK RECONFIGURATION REQUEST 消息包含 *DCHs to Modify* IEs，那么 Node B 依

照如下方式进行处理:

— 如果 *DCHs to Modify IE* 包含 *Frame Handling Priority IE*, Node B 将在新配置中为 DCH 保存这些信息。收到的帧处理优先级用于一旦新配置激活时,在 Node B 中拥塞情况下,无线接口的下行链路上对不同帧的优选。

— 如果 *DCHs to Modify IE* 包含 DCH 的对 UL 的 *Transport Format Set IE*, Node B 将在新的配置中在这个 DCH 的上行链路上应用新的 Transport Format Set。

— 如果 *DCHs to Modify IE* 包含 DCH 的对 DL 的 *Transport Format Set IE*, Node B 将在新的配置中在这个 DCH 的下行链路上应用新的 Transport Format Set。

— 如果 *DCHs to Modify IE* 包含 DCH 的 *Allocation/Retention Priority IE*, Node B 将在新的配置中为这个 DCH 提供新的 Allocation/Retention Priority

— 如果 *DCHs to Modify IE* 包含多个 *DCH Specific Info IEs*, 那么 Node B 将把在 *DCHs To Modify IEs* 中的 DCHs 作为一组协同的 DCHs。仅当这些 DCHs 能够全部包含于新配置里时, Node B 才把这些 DCHs 包含在新的配置中。

— 如果 *DCHs to Modify IE* 对于一条 DCH 或者属于一组协同 DCHs 的 DCH 包含 *UL FP Mode IE*, 那么 Node B 将在新配置中为这条 DCH 或者这组协同 DCHs 在用户平面的上行链路上应用新的帧协议模式。

— 如果 *DCHs to Modify IE* 对于一条 DCH 或者属于一组协同 DCHs 的 DCH 包含 *ToAWS IE*, 那么 Node B 将在新配置中为这条 DCH 或者这组协同的 DCHs 在用户平面上应用新的到达窗口起始点时间。

— 如果 *DCHs to Modify IE* 对于一条 DCH 或者属于一组协同 DCHs 的 DCH 包含 *ToAWE IE*, 那么 Node B 将在新配置中为这条 DCH 或者这组协同的 DCHs 在用户平面上应用新的到达窗口终止点时间。

— 如果 *DCHs to Modify IE* 对于下行 DCH 的修改包含 *CCTrCH ID IE*, Node B 将在新配置中的 DCH 下行链路上应用新的 CCTrCH ID。

— 如果 *DCHs to Modify IE* 对于上行 DCH 的修改包含 *CCTrCH ID IE*, Node B 将在新配置中的 DCH 上行链路上应用新的 CCTrCH ID。

## (2) DCH 增加

如果 RADIO LINK RECONFIGURATION REQUEST 消息包含任何 *DCH To Add IE*, Node B 将根据消息中给出的参数为 RL 的新配置保留必需的资源,并在新配置中包括这些 DCH。具体操作如下:

— 如果对于增加的 DCH, *DCHs to Add IE* 包含多重的 *DCH specific Info IEs*, Node B 将把 *DCHs to Add IE* 中的 DCHs 作为一组协同的 DCHs。只有当这些 DCHs 都能被包含于新配置中的时候, Node B 才在新配置中包含这些 DCHs。

— 对于一组协同的 DCHs, 来自 DCH 的带有 *QE-Selector IE* 被设置为 "selected" 的传输信道 BER 将被用于 UL 数据帧的 QE。

— Node B 将从增加的 DCH 上收到的 *Frame Handling Priority IE* 存储在新配置中。收到的 *Frame Handling Priority* 将被用于一旦新配置激活后,在 Node B 中拥塞的情况下,无线接口的下行链路上区分不同的帧间的优先次序。

— Node B 将把增加的 DCH 或者一组协同的 DCHs 中包含的 *UL DCH FP Mode IE* 作为在新配置中这个 DCH 或一组协同 DCHs 用户平面上行链路的 FP Mode。

— Node B 将对增加的 DCH 或者一组协同的 DCHs 使用包含的 *ToAWS IE*, 作为在新配置中这个 DCH 的用户平面上的到达窗口起始点时间。

— Node B 将对增加的 DCH 或者一组协同的 DCHs 使用包含的 *ToAWE* IE, 作为在新配置中这个 DCH 的用户平面上的到达窗口终止点时间。

— 如果下行 DCH 的增加中包含 *CCTrCH ID* IE, Node B 将在新配置中的 DCH 下行链路上应用 *CCTrCH ID* IE。

— 如果上行 DCH 的增加中包含 *CCTrCH ID* IE, Node B 将在新配置中的 DCH 上行链路上应用 *CCTrCH ID* IE。

### (3) DCH 删除

如果 RADIO LINK RECONFIGURATION REQUEST 消息包含任何从 RL 中删除的 DCH, Node B 在新配置中将不包括这个 DCH。

如果属于一组协同 DCHs 的所有 DCH 都被请求删除, Node B 将在新配置中不包括这一组协同的 DCHs。

### (4) UL/DL CCTrCH 修改

如果在 RADIO LINK RECONFIGURATION REQUEST 消息包含 *UL CCTrCH to Modify* IE 或者 *DL CCTrCH to Modify* IE, 那么 Node B 将根据消息中给出的参数为无线链路的新的配置保留必要的资源。

如果 *UL/DL CCTrCH To Modify* IE 包含 *TFCS* IE 和/或 *Puncture limit* IE, 那么 Node B 将应用这些新值, 否则为这个 CCTrCH 规定的旧的值将继续被应用。

如果 *UL CCTrCH To Modify* IE 包含 *UL SIR Target* IE, 那么 Node B 将在上行内环功率控制时在新配置中应用这些值。

### (5) UL/DL CCTrCH 删除

如果 RADIO LINK RECONFIGURATION REQUEST 消息中包含任何的 *UL CCTrCH To Delete* IE 或者 *DL CCTrCH To Delete* IE, Node B 在新配置中将不包含这条 CCTrCH。

### (6) RL 信息

— 如果 RADIO LINK RECONFIGURATION PREPARE 消息包含 *RL Information* IE, Node B 将对它进行如下的处理:

— 如果 *RL Information* IE 中包含 *Maximum DL Power* IE, 一旦新配置开始使用, Node B 将在新配置中应用这个值, 并且保证在 RL 的任何下行 DPCH 中不采用更高的功率传输。

— 如果 *RL Information* IE 中包含 *Minimum DL Power* IE, 一旦新配置开始使用, Node B 将在新配置中应用这个值, 并且保证在 RL 的任何下行 DPCH 中不采用更低的功率传输。

— 如果 RADIO LINK RECONFIGURATION REQUEST 消息中包含 *Uplink Synchronisation Parameters LCR* IE, Node B 在上行同步时将用到 *Uplink Synchronisation Step size* IE 和 *Uplink Synchronisation Frequency* IE。

### (7) 概述

如果请求的修改被 Node B 所允许, Node B 成功分配所需的资源, 并且将设置改为新设置。它将向 CRNC 发送 RADIO LINK RECONFIGURATION RESPONSE 消息予以响应。

Node B 将在 RADIO LINK RECONFIGURATION RESPONSE 消息中包含任何新增的传输信道或者通过 *Transport Bearer Request Indicator* IE 请求新传输承载的要修改的传输信道的 *Transport Layer Address* IE 和 *the Binding ID* IE。

如果一组协同 DCHs 请求一个新的 Iub 接口上的传输承载, 那么包含在 *DCH Information Response* IE

中的 *Transport Layer Address IE* 和 *the Binding ID IE* 只能包含在协同 DCHs 的一个 DCH 中。

如果在 Node B 中一条无线链路被其他的无线链路组合, 那么 *DCH Information Response IE* 中的 *Transport Layer Address IE* 和 *Binding ID IE* 将只被组合无线链路中的一条包含。

### 8.3.5.3 不成功的操作

不成功操作时, 非同步的无线链路重配置过程如图 35 所示。

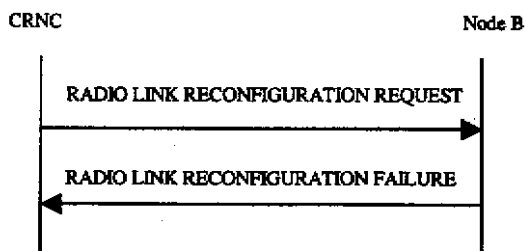


图 35 非同步的无线链路重配置过程, 不成功的操作

如果 Node B 不能为请求建立的一组协同 DCHs 中的所有新的 DCH 分配必需的资源, 则将认为非同步无线链路重配置过程失败。

如果请求的非同步无线链路重配置过程对一条 RL 失败, Node B 将向 CRNC 发送 RADIO LINK RECONFIGURATION FAILURE 消息指示失败的原因。

典型的原因值如下:

(1) 传输层原因

传输资源不可用。

(2) 其他原因

— O&M 干涉;

— 控制处理过载;

— HW 失败。

### 8.3.5.4 异常情况

如果一组协同 DCHs 信道中只有一个子集中的 DCH 请求被删除, Node B 将认为非同步无线链路重配置过程失败, 并发送 RADIO LINK RECONFIGURATION FAILURE 消息给 CRNC。

如果一组协同 DCHs 中超过一条 DCH 的 *QE-Selector IE* 设置为 “selected”, 或者一组协同 DCHs 中没有 DCH 的 *QE-Selector IE* 设置为 “selected”, Node B 将认为非同步无线链路重配置过程失败, 并用 RADIO LINK RECONFIGURATION FAILURE 消息响应。

如果 RADIO LINK RECONFIGURATION REQUEST 消息中的 *DCHs To Modify IE* 或 *DCHs To Add IE* 包含多个 *DCH Specific Info IE*, 并且如果 *DCHs To Modify IE* 或 *DCHs To Add IE* 中的 DCHs 在 *Semi-Static Transport Format Information IE* 中包含不同的 *Transmission Time Interval IE*, 那么 Node B 将发送 RADIO LINK RECONFIGURATION FAILURE 消息指示非同步无线链路重配置过程失败。

## 8.3.6 无线链路删除

### 8.3.6.1 概述

无线链路删除过程用于释放 Node B 中对 UE 建立的一条无线链路的资源。

当 Node B 通信上下文存在的情况下, 无线链路删除过程可以由 CRNC 在任何时候发起。

### 8.3.6.2 成功的操作

成功操作时，无线链路删除的过程如图 36 所示。

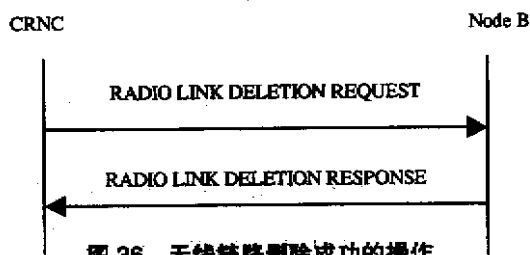


图 36 无线链路删除成功的操作

该过程由 CRNC 通过分配给 Node B 通信上下文的通信控制端口发送到 Node B 的 RADIO LINK DELETION REQUEST 消息发起。

一旦收到这个消息，Node B 将删除消息中所有由 *RL ID IE*、*Node B Communication Context ID IE* 以及 *CRNC Communication Context ID IE* 标识的无线链路，并释放所有相关的资源，并用 RADIO LINK DELETION RESPONSE 消息对 CRNC 进行响应。

### 8.3.6.3 不成功的操作

#### 8.3.6.4 异常情况

如果标识为 *RL ID IE*、*Node B Communication Context ID IE* 和 *CRNC Communication Context ID IE* 的 RL 不存在，那么 Node B 将发送 RADIO LINK DELETION RESPONSE 消息予以响应，并用 RADIO LINK DELETION REQUEST 消息中收到的 *CRNC Communication Context ID IE*。

## 8.3.7 专用测量初始化

### 8.3.7.1 概述

该过程用于 CRNC 请求在 Node B 中初始化专用测量。

如果一个 Prepared Reconfiguration 存在，专用测量初始化过程将不发起。

### 8.3.7.2 成功的操作

成功操作时，专用测量请示过程如图 38 所示。

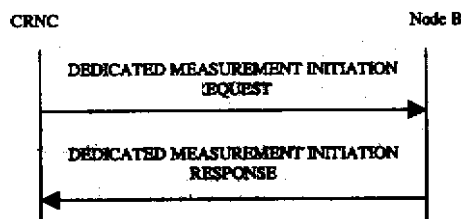


图 38 专用测量请示过程：成功的操作

该过程由从 CRNC 发到 Node B 的 DEDICATED MEASUREMENT INITIATION REQUEST 消息发起，使用分配给 Node B 通信上下文的通信控制端口。

一旦收到，Node B 将根据请求中给出的参数初始化请求的测量。除了下面提到的，其他参数的意义在其他标准中给出。

如果 *Node B Communication Context ID IE* 等于保留值“ALL NBCC”，这个测量请求将用于所有当前的和将来的，由 Node B 收到 DEDICATED MEASUREMENT INITIATION REQUEST 消息的通信控制端

口控制的 Node B 通信上下文。否则, 这个测量请求将只能应用于请求中由 Node B 通信上下文 ID 指示的 Node B 通信上下文。

如果 *Node B Communication Context ID IE* 等于保留值“ALL NBCC”, 尽管它应用于多个通信上下文, 测量请求将被当作是一个单独的测量。这意味着它只能终止或失败于“ALL NBCC”。

如果 *Node B Communication Context ID IE* 等于保留值“ALL NBCC”, 测量初始化将只针对处理某种模式 (FDD、3.84Mcps TDD 或 1.28Mcps TDD) 的 Node B 通信上下文。

如果 DEDICATED MEASUREMENT INITIATION REQUEST 消息中的 Dedicated Measurement Object Type 设置为“RL”, 测量报告将对指示的所有的无线链路给出测量结果。

如果 DEDICATED MEASUREMENT INITIATION REQUEST 消息中的 Dedicated Measurement Object Type 设置为“ALL RL”, 只要测量类型对相关 DPCH 是可行的, 将对 Node B 通信上下文中指示当前和未来的无线链路中的所有可用时隙上每个 CCTrCH 上的 DPCH 给出测量结果。

如果 RL Information 中提供 *DPCH ID IE*, 测量请求将单独地应用于请求的物理信道。如果在 RL Information 中没有提供 *DPCH ID IE* 和 *PUSCH Information IE*, 只要测量类型对这个相关物理信道是可行的, 测量请求将适用于这条无线链路上所有可用时隙上每个 CCTrCH 上的一个物理信道。

如果 RL 信息中提供 *PUSCH Information IE*, 测量请求将只针对提出请求的物理信道。

如果 *CFN Reporting Indicator IE* 设置为“FN Reporting Required”, *CFN IE* 将包含在 DEDICATED MEASUREMENT REPORT 消息中或 DEDICATED MEASUREMENT INITIATION RESPONSE 消息中。后者仅在 *Report Characteristics IE* 设置为“On-Demand”的情况下出现。报告的 CFN 是层 3 滤波器的报告时间, 也就是 C 点的 CFN 值。

#### (1) 报告特征

*Report Characteristics IE* 指示如何完成测量的报告。

如果 *Report Characteristics IE* 指示为“On Demand”, 且并未提供 *CFN IE*, Node B 将立即返回测量的结果。如果提供 *CFN IE*, 它将指示测量上报值的帧的位置。提供的测量将由层 3 滤波器报告。

如果 *Report Characteristics IE* 指示为“Periodic”, Node B 将使用请求的报告频率对这个测量周期性地发起测量报告过程。如果提供 *CFN IE*, 它将指示周期性报告中第一个测量值的帧的位置。提供的测量将由层 3 滤波器报告。

如果 *Report Characteristics IE* 指示为“Event A”, 当被测的实体高过请求的门限并保持超过请求的滞后时间, Node B 将发起测量报告过程。如果没有给出滞后时间, Node B 将滞后时间设为 0。

如果 *Report Characteristics IE* 指示为“Event B”, 当被测的实体低于请求的门限并保持超过请求的滞后时间, Node B 将发起测量报告过程。如果没有给出滞后时间, Node B 将滞后时间设为 0。

如果 *Report Characteristics IE* 指示为“Event C”, 当被测的实体在请求的时间内上升的值高过请求的门限, Node B 将发起测量报告过程。测量报告完成后, 在给定的 *Measurement Change Time IE* 指示的上升时间内将不会发起同样的 event C 报告。

如果 *Report Characteristics IE* 指示为“Event D”, 当被测的实体在请求的时间内下降的值高于请求的门限, Node B 将发起测量报告过程。测量报告完成后, 在给定的 *Measurement Change Time IE* 指示的下降时间内将不会发起同样的 event D 报告。

如果 *Report Characteristics IE* 指示为“Event E”, 当被测的实体高过“测量门限 1”并且保持时间超过“测量滞后时间”(Report A), Node B 将发起测量报告过程。如果满足 Report A 的条件, 并且提供了



*Report Periodicity* IE, Node B 将周期性的发起专用测量报告过程。当满足 Report A 的条件, 但被测的实体低于“测量门限 2”并且保持时间超过“测量滞后时间”, Node B 也将发起测量报告过程 (Report B) 并且终止任何相应的周期性报告。如果“测量门限 2”未出现, Node B 将使用“测量门限 1”代替。如果未提供“测量滞后时间”, Node B 将对 Report A 和 Report B 的滞后时间都设为 0。

如果 *Report Characteristics* IE 指示为“Event F”, 当被测的实体低于“测量门限 1”并且保持时间超过“测量滞后时间”(Report A), Node B 将发起测量报告过程。如果满足 Report A 的条件, 并且提供了 *Report Periodicity* IE, Node B 将周期性的发起专用测量报告过程。当满足 Report A 的条件, 但被测的实体高于“测量门限 2”并且保持时间超过“测量滞后时间”时, Node B 也将发起测量报告过程 (Report B) 并且终止任何相应的周期性报告。如果“测量门限 2”未出现, Node B 将使用“测量门限 1”代替。如果未提供“测量滞后时间”, Node B 将对 Report A 和 Report B 的滞后时间都设为 0。

如果 *Report Characteristics* IE 未指示为“On Demand”, 只要测量对象存在, Node B 将执行 DEDICATED MEASUREMENT INITIATION REQUEST 消息中指示的专用测量。如果测量定义的专用测量对象不再存在, 则 Node B 将内部终止测量, 不会将此测量结果上报给 CRNC。

如果在测量的开始, 对任何 Event A、Event B、Event E 或 Event F 的报告条件满足, Node B 将立即层测量报告过程, 并且根据 DEDICATED MEASUREMENT INITIATION REQUEST 消息的规定继续进行测量。

### (2) 高层滤波

Measurement Filter Coefficient IE 指示了在测量事件评估和报告前如何过滤测量值。

将根据下列公式进行平均。

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

公式中的变量定义如下:

$F_n$  是更新测量过滤结果;

$F_{n-1}$  是原来的测量过滤结果;

$M_n$  是从物理层测量收到的最后测量结果, 它的单位和 DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT 消息中报告的单位相同或是和事件估计中的单位保持一致 (同  $F_n$ )。

$a = 1/2^{(k/2)}$ ,  $k$  是在 Measurement Filter Coefficient IE 中得到的参数。如果 Measurement Filter Coefficient IE 没有被提出,  $a$  就被设置为 1 (未过滤)。

为了初始化平均过滤, 当收到从物理层测量来的第一个测量结果时  $F_0$  被置为  $M_1$ 。

### (3) 响应消息

如果 Node B 能够发起由 CRNC 请求的测量, 它将使用分配给 Node B 通信上下文的通信控制端口发送 DEDICATED MEASUREMENT INITIATION RESPONSE 进行响应。消息中将包括与测量请求中使用的同样的 Measurement ID。

仅在 *Report Characteristics* IE 指示了“On Demand”的情况下, DEDICATED MEASUREMENT INITIATION RESPONSE 消息中将包含测量结果。在这种情况下如果在请求消息中包含了 *Dedicated Measurement Object* IE, 那它也将被包含在响应消息中。

当 *Node B Communication Context ID* IE 设为“ALL NBCC”, DEDICATED MEASUREMENT INITIATION RESPONSE 消息中的 *CRNC Communication Context ID* IE 将被设为保留的“ALL CRNCCC”。

### (4) 与复位过程的交互

如果 *Node B Communication Context ID IE* 设为 “ALL NBCC”，Node B 或 CRNC 复位了相关的通信控制端口或整个 Node B，则 Node B 将终止内部测量。

### 8.3.7.3 不成功的操作

不成功操作时，专用测量请求过程如图 39 所示。

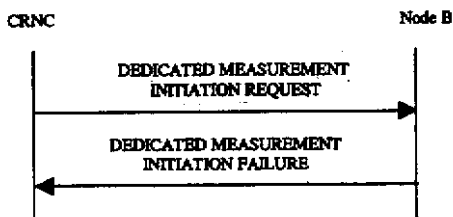


图 39 专用测量请求过程，不成功的操作

如果请求的测量不能被发起，Node B 将使用分配给 Node B 通信上下文的通信控制端口发送 DEDICATED MEASUREMENT INITIATION FAILURE 消息。这个消息将包含与 DEDICATED MEASUREMENT INITIATION REQUEST 消息中相同的 Measurement ID，并且 Cause IE 被设置为适当的值。

当 *Node B Communication Context ID IE* 设为 “ALL NBCC”，DEDICATED MEASUREMENT INITIATION FAILURE 消息中的 *CRNC Communication Context ID IE* 将被设为保留的 “ALL CRNCCC”。

典型的原因值如下：

- (1) 无线网络层原因
  - 对测量对象不支持；
  - 测量临时不可用。
- (2) 其他原因
  - O&M 干涉；
  - 控制处理过载；
  - HW 失败。

### 8.3.7.4 异常情况

允许的专用测量类型和报告类型的组合方式在表 4 中由 “X” 指示。对于不被允许的组合，Node B 将认为专用测量发起过程失败。

表 4 允许的专用测量类型和报告类型的组合方式

Dedicated Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
SIR	X	X	X	X	X	X	X	X	
Transmitted Code Power	X	X	X	X	X	X	X	X	
RSCP	X	X	X	X	X	X	X	X	
Rx Timing Deviation LCR	X	X	X	X			X	X	
Angle Of Arrival LCR	X	X							

如果专用测量类型在 3GPP TS 25.225 中没有定义，那么 Node B 将认为专用测量过程失败。

如果 DEDICATED MEASUREMENT INITIATION REQUEST 消息中包含 CFN IE，并且 Report Characteristics IE 不是 “Periodic” 或 “On Demand”，Node B 将认为专用测量过程失败。

### 8.3.8 专用测量报告

#### 8.3.8.1 概述

该过程用于 Node B 报告测量的结果，测量是由 CRNC 使用测量初始化过程请求的。只要 Node B 通信上下文存在，Node B 可以在无线链路建立后的任何时刻发起专用测量报告过程。

#### 8.3.8.2 成功操作

成功操作时，专用测量报告过程如图 40 所示。

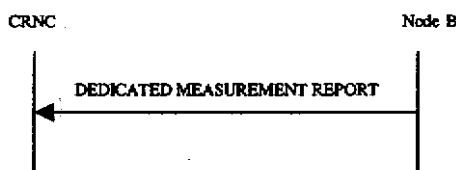


图 40 专用测量报告过程，成功的操作

如果满足了请求的测量报告条件，Node B 将发起一个测量报告过程。DEDICATED MEASUREMENT REPORT 消息将使用分配给 Node B 通信上下文的通信控制端口。如果测量初始化过程发起对多个测量对象的测量，则 Node B 将在 DEDICATED MEASUREMENT REPORT 消息中包含多个测量对象的测量结果。除了下面提到的，参数的意义将在其他标准中给出。

*Dedicated Measurement ID* IE 将被设置为测量初始化过程中由 CRNC 提供的 Measurement ID。

如果收到的测量的精度不符合给出的精度要求，那么测量不可得将被报告。

#### 8.3.8.3 异常情况

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### 8.3.9 专用测量结束

#### 8.3.9.1 概述

该过程由 CRNC 用于结束先前由测量初始化过程请求的测量。

如果存在 Prepared Reconfiguration，专用测量结束过程将不发起。

#### 8.3.9.2 成功操作

成功操作时，专用测量结束过程如图 41 所示。

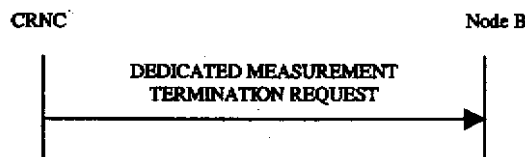


图 41 专用测量结束过程成功的操作

该过程由从 CRNC 发到 Node B 的 DEDICATED MEASUREMENT TERMINATION REQUEST 消息发起，使用分配给 Node B 通信上下文的通信控制端口。

一旦收到，Node B 将终止与 *Dedicated Measurement ID* IE 相应的测量的报告。

#### 8.3.9.3 异常情况

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### 8.3.10 专用测量失败

#### 8.3.10.1 概述

该过程用于 Node B 通知 CRNC 先前由测量初始化过程请求的测量不再被报告。只要 Node B 通信上

下文存在，Node B 被允许在发送 RADIO LINK SETUP RESPONSE 消息后的任何时间发起 DEDICATED MEASUREMENT FAILURE INDICATION 消息。

### 8.3.10.2 成功的操作

成功操作时，专用测量失败过程如图 42 所示。

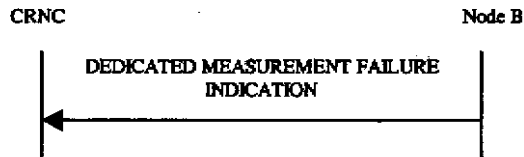


图 42 专用测量失败过程，成功的操作

该过程由 Node B 发送到 CRNC 的 DEDICATED MEASUREMENT FAILURE INDICATION 消息发起，使用分配给 Node B 通信上下文的通信控制端口，通知 CRNC 先前请求的测量不再被报告。Node B 将内部终止先前指定的测量。

如果失败的测量被发起时 *Node B Communication Context ID IE* 被设置位保留值“ALL NBCC”，且 Node B 已终止了 DEDICATED MEASUREMENT FAILURE INDICATION 消息中给出的与 Measurement ID 相关的测量的测量报告，CRNC Communication Context ID IE 将被设置为“ALL CRNCCC”。

### 8.3.10.3 异常情况

## 8.3.11 无线链路失败

### 8.3.11.1 概述

该过程由 Node B 发起，用来指示一条无线链路失败。

Node B 可以在无线链路建立后的任何时刻发起无线链路失败过程。

### 8.3.11.2 成功的操作

成功操作时，无线链路失败过程如图 43 所示。



图 43 无线链路失败过程，成功的操作

当 Node B 检测到一条无线链路或无线链路中的 CCTrCHs 不可用时，它将发送 RADIO LINK FAILURE INDICATION 消息给 CRNC 以指示失败的无线链路或 CCTrCHs，Cause IE 中带有合适的原因值。消息用到分配给 Node B 通信上下文的通信控制端口。

如果失败关系到一条单独的无线链路，Node B 将使用 *RL Information IE* 指示受影响的无线链路。如果失败只涉及到一条无线链路中的一条或多条 CCTrCHs，Node B 将用 *CCTrCH ID IE* 指示受影响的 CCTrCHs。

当无线链路失败过程用来通知无线链路或无线链路中的 CCTrCHs 在 Uu 接口上的上行失步，由 3GPP TS 25.224 中的失步算法指示时，将发送 RADIO LINK FAILURE INDICATION 消息，其中 Cause IE 被设置为“Synchronisation Failure”。

在其他情况下，无线链路失败过程可以用来指示一条无线链路永远不可用而且不能恢复。在发送了 RADIO LINK FAILURE INDICATION 消息来通知永久的失败后，Node B 将不从 Node B 的通信上下文中删除无线链路，或者删除 Node B 通信上下文本身。需要时，与传输信道相关的保持优先级将被 Node B 用来向 CRNC 指示无线链路不可用的优先级。

典型的原因值有：

(1) 无线网络层原因

同步失败。

(2) 传输层原因

传输资源不可用。

(3) 其他原因

- 控制处理过载；
- HW 失败；
- O&M 干涉。

### 8.3.11.3 异常情况

—

### 8.3.12 无线链路恢复

#### 8.3.12.1 概述

该过程由 Node B 发起，用于通知一条或多条无线链路，或一条无线链路中的多个 CCTrCHs 的上行链路同步的获取和重新获取。

Node B 可以在无线链路建立后的任何时刻发起无线链路恢复过程。

#### 8.3.12.2 成功的操作

成功操作时，无线链路恢复过程如图 44 所示。



图 44 无线链路恢复过程，成功的操作

当检测到 UL 同步后，Node B 将发送 RADIO LINK RESTORE INDICATION 消息给 CRNC 指示无线链路恢复过程。该过程使用分配给 Node B 通信上下文的通信控制端口。

如果重新建立的同步涉及到一或多个单独的无线链路，Node B 将使用 *RL Information IE* 指示受影响的无线链路。如果重新建立的同步仅涉及到一条无线链路中的一条或多条 CCTrCHs，Node B 将使用 *CCTrCH ID IE* 指示受影响的 CCTrCHs。

#### 8.3.12.3 异常情况

—

### 8.3.13 下行功率时隙控制

#### 8.3.13.1 概述

该过程用于在确定每个时隙的下行发射功率时 Node B 可以使用指示的下行时隙 ISCP。

当存在 Node B 通信上下文时, 不管是否有其他 CRNC 正在发起针对这个 Node B 的通信上下文的专用 NBAP 过程, CRNC 可以在任何时间发起下行功率时隙控制过程。惟一的例外是当 CRNC 请求删除这个 Node B 的最后一条无线链路时, 将不触发下行功率时隙控制过程。

### 8.3.13.2 成功的操作

成功操作时, 下行功率时隙控制过程如图 45 所示。



图 45 下行功率时隙控制过程, 成功的操作

该过程由 CRNC 向 Node B 发送 DL POWER TIMESLOT CONTROL REQUEST 消息发起, 使用分配给 Node B 通信上下文的通信控制端口。

收到这个消息后, Node B 将在确定每个时隙的下行发送功率时使用消息中带的 DL Timeslot ISCP 参数的值, 即在保持总的下行功率值不变的情况下, 在干扰低的下行时隙可以减少下行发送功率, 在干扰高的下行时隙可以增加下行发送功率。

### 8.3.13.3 异常情况

### 8.3.14 无线链路抢占

#### 8.3.14.1 概述

该过程由 Node B 发起, 表示需要释放某些资源。

Node B 可以在无线链路建立后的任何时刻发起无线链路抢占过程。

#### 8.3.14.2 成功的操作

成功操作时, 无线链路抢占过程如图 46 所示。

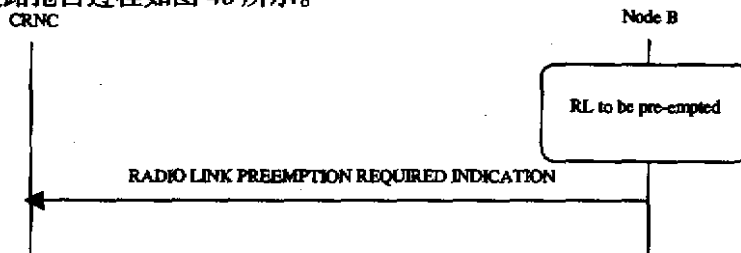


图 46 无线链路抢占过程, 成功的操作

当 Node B 检测到一条无线链路需要被抢占时, Node B 将发送 RADIO LINK PREEMPTION REQUIRED INDICATION 消息给 CRNC, 使用分配给 Node B 通信上下文的通信控制端口。

如果 CRNC Communication Context ID 指示的所有无线链路都需要抢占, 那么 *RL Information IE* 将会被省略。如果 CRNC Communication Context ID 指示的一条或几条 (不是所有的) 无线链路被抢占, 被抢占的无线链路将在 *RL Information IE* 中给予指示。被抢占的无线链路将由 CRNC 删除。

#### 8.3.14.3 异常情况

## 8.4 错误处理过程

### 8.4.1 错误指示

#### 8.4.1.1 概述

错误指示过程由节点 (RNC 或 Node B) 发起, 报告在输入消息中检测到但不能通过适当的响应消息进行报告的错误。

#### 8.4.1.2 成功的操作

当条件 (具体定义参见 3GPP TS25.433 第 10 章) 都满足时, 错误指示过程由一条从接收节点发出的 ERROR INDICATION 消息发起。

当错误指示过程由专用过程触发时:

— 错误指示消息由 Node B 发往 CRNC, 如果触发错误指示过程的消息中包含 *Node B Communication Context ID IE*, 并且由它标识的 Node B 通信上下文存在时, ERROR INDICATION 消息中应包含相应的 *CRNC Communication Context ID IE*。

— 错误指示消息由 CRNC 发往 Node B, 如果触发错误指示过程的消息中包含 *CRNC Communication Context ID IE*, 并且由它标识的 CRNC 通信上下文存在时, ERROR INDICATION 消息中应包含相应的 *Node B Communication Context ID IE*。

— 错误指示消息由 Node B 发往 CRNC, 如果 Node B 收到的触发错误指示的消息中包含 *Node B Communication Context ID IE*, 但由它标识的 Node B 通信上下文不存在时, 除了在过程中有特殊处理说明的情况, Node B 应在 ERROR INDICATION 消息中包含从触发错误指示的消息中获取的这个未知的 *Node B Communication Context ID IE*。

— 错误指示消息由 CRNC 发往 Node B, 如果 CRNC 收到的触发错误指示的消息中包含 *CRNC Communication Context ID IE*, 但由它标识的 CRNC 通信上下文不存在时, 除了在过程中有特殊处理说明的情况, CRNC 应在 ERROR INDICATION 消息中包含从触发错误指示的消息中获取的这个未知的 *CRNC Communication Context ID IE*。

ERROR INDICATION 消息中或者包含 Cause IE, 或者包含 Criticality Diagnostics IE, 或者既包含 Cause IE 又包含 Criticality Diagnostics IE。

ERROR INDICATION 消息中典型的原因值有:

#### (1) 协议原因

- 传输语法错误;
- 抽象语法错误 (拒绝);
- 抽象语法错误 (忽略和通知);
- 消息与接收者的状态不一致;
- 未指明的。

成功操作时, 错误指示过程如图 47、图 48 所示



图 47 错误指示过程 (Node B 到 CRNC), 成功的操作

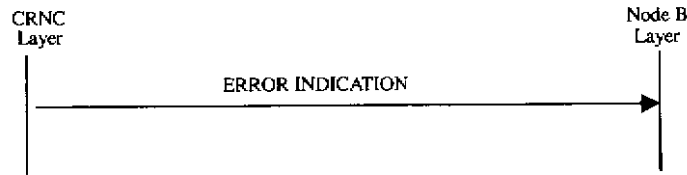


图 48 错误指示过程 (CRNC 到 Node B), 成功的操作

8.4.1.3 异常情况

9 NBAP 通信单元

9.1 消息功能定义和内容

9.1.1 概述

9.1 节中以表格的形式给出了 NBAP 消息的内容。相应的 ASN.1 描述定义在 9.3 节给出。当表格和 ASN.1 描述不一致时, 应以 ASN.1 为准, 惟一的例外是对条件 IEs 出现条件的定义, 它们的定义以表格定义为准。

备注: 消息定义的规则参见 3GPP TR 25.921。

9.1.2 消息内容

9.1.2.1 Presence

一个信元可以是如下类型之一:

M	IEs marked as Mandatory (M) shall always be included in the message
O	IEs marked as Optional (O) may or may not be included in the message
C	IEs marked as Conditional (C) shall be included in a message only if the condition is satisfied. Otherwise the IE shall not be included

对于信元组的情况, 在这个组的前边有这个信息组的名称 (以粗体表示)。消息中还给出了信元组重复的次数以及信元组是否是条件存在的。信元组内, 信元的 presence 域定义了这个信元是必选的、可选的还是条件存在的。

9.1.2.2 Criticality

每一个信元或者信元组都可能含有一个 criticality information。可能的形式如下:

-	No criticality information is applied explicitly
YES	Criticality information is applied. 'YES' is usable only for non-repeatable information elements
GLOBAL	The information element and all its repetitions together have one common criticality information. 'GLOBAL' is usable only for repeatable information elements
EACH	Each repetition of the information element has its own criticality information. It is not allowed to assign different criticality values to the repetitions. 'EACH' is usable only for repeatable information elements

9.1.2.3 Range

该列指示了可重复的 IE 允许的拷贝数目。

9.1.2.4 Assigned Criticality

该列提供了 criticality 信息。



## 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<i>CHOICE Common Physical Channel To Be Configured</i>	M				YES	ignore
>Secondary CCPCHs					-	
>>SCCPCH CCTrCH ID	M		CCTrCH ID 9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	-	
>>TFCS	M		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	-	
>>TFCI Coding	M		9.2.3.22		-	
>>Puncture Limit	M		9.2.1.50		-	
>>CHOICE HCR or LCR	M			See note 1 below	-	
>>>3.84Mcps TDD					-	
>>>>Secondary CCPCH		1..<maxnoof SCCPCHs>			GLOBAL	reject
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>Time Slot	M		9.2.3.23		-	
>>>>Midamble Shift And Burst Type	M		9.2.3.7		-	
>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>Repetition Period	M		9.2.3.16		-	
>>>>Repetition Length	M		9.2.3.15		-	
>>>>SCCPCH Power	M		DL Power 9.2.1.21		-	
>>>>1.28Mcps TDD					-	
>>>>Secondary CCPCH LCR		1..<maxnoof SCCPCHsLCR>			GLOBAL	reject
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>Midamble Shift LCR	M		9.2.3.7A		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>Repetition Period	M		9.2.3.16		-	
>>>>Repetition Length	M		9.2.3.15		-	
>>>>SCCPCH Power	M		DL Power 9.2.1.21		-	
>>>> SCCPCH Time Slot Format LCR	M		TDD DL DPCH Time Slot Format LCR 9.2.3.19D		-	
>>FACH Parameters		<i>0..&lt;maxnoof FACHs&gt;</i>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>FACH CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>Max FACH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>PCH Parameters		<i>0..1</i>			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>PCH CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>CHOICE HCR or LCR	M			See note 1 below	-	
>>>>3.84Mcps TDD					-	
>>>>PICH Parameters		<i>1</i>			YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	M		9.2.3.7		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>>Repetition Period	M		9.2.3.16		-	
>>>>>Repetition Length	M		9.2.3.15		-	
>>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>>PICH Power	M		9.2.1.49A		-	
>>>>>1.28Mcps TDD					-	
>>>>>PICH Parameters LCR					YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>>Repetition Period	M		9.2.3.16		-	
>>>>>Repetition Length	M		9.2.3.15		-	
>>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>>PICH Power	M		9.2.1.49A		-	
>>>>>Second TDD Channelisation Code LCR	M		TDD Channelisation Code LCR 9.2.3.19a		-	
>>>>PCH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>PRACH					-	
>>CHOICE HCR or LCR	M			See note 1 below	-	
>>>>3.84Mcps TDD					-	
>>>>PRACH		1			YES	reject
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>TFCS	M		9.2.1.58		-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>TDD Channelisation Code	M		9.2.3.19		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Max PRACH Midamble Shifts	M		9.2.3.6		-	
>>>>PRACH Midamble	M		9.2.3.14		-	
>>>>RACH		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL	-	
>>>1.28Mcps TDD						
>>>>PRACH LCR		1..<maxnoof PRACHLCRs>			GLOBAL	reject
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>TFCS	M		9.2.1.58		-	
>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>>RACH		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL	-	
>>FPACH		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>>>UARFCN	O		9.2.1.65	Corresponds to Nt (3GPP TS 25.105) This IE indicates the frequency of Secondary Frequency on which FPACH to be set up. See Note 2 below	YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>Max FPACH Power	M		9.2.3.5E		-	

Note 1: 该消息单元是 ASN.1 的简化描述。通过使用 ASN.1 中的 ProtocolIE-Single-Container 实现这个选择。

Note 2: 为了便于理解, 在表格中将 UARFCN IE 放在 FPACH IE 下的第一个位置, 实际解码时应以 ASN.1 中的位置为准 (放在 Max FPACH Power IE 之后)。

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

#### 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
FACH Parameters Info		0..< <i>maxnoof FACHs</i> >		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>FACH Parameters	M		Common Transport Channel Information Response 9.2.1.14A		-	
PCH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The PCH Parameters may be combined with FACH Parameters	YES	ignore
RACH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	YES	ignore
CPCH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD]

## 9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	-
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	-
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Secondary CCPCH Parameters		0..1			YES	reject
>CCTrCH ID	M		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	-	
>Secondary CCPCHs To Be Configured		0..<maxnoof SCCPCHs>			GLOBAL	reject
>>Common Physical Channel ID	M		9.2.1.13		-	
>>SCCPCH Power	O		DL power 9.2.1.21		-	
PICH Parameters		0..1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>PICH Power	O		9.2.1.49A		-	
FACH Parameters		0..<maxnoof FACHs>			GLOBAL	reject
>Common Transport Channel ID	M		9.2.1.14		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
>Max FACH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
PCH Parameters		0..1			YES	reject
>Common Transport Channel ID	M		9.2.1.14		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
>PCH Power	O		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
FPACH Parameters		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>Max FPACH Power	O		9.2.3.5E		-	

Range Bound	Explanation
<i>maxnoofSCCPCHs</i>	Maximum number of SCCPCHs that can be repeated in a Cell
<i>maxnoofFACHs</i>	Maximum number of FACHs that can be repeated in a Cell

### 9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.8 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.9 COMMON TRANSPORT CHANNEL DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
Common Physical Channel ID	M		9.2.1.13	Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted	YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject

### 9.1.10 COMMON TRANSPORT CHANNEL DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.11 BLOCK RESOURCE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
Blocking Priority Indicator	M		9.2.1.5		YES	reject
Shutdown Timer	C-BlockNormal		9.2.1.56		YES	reject

Condition	Explanation
BlockNormal	The IE shall be present if the <i>Blocking Priority Indicator</i> IE indicates "Normal Priority"

## 9.1.12 BLOCK RESOURCE RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.13 BLOCK RESOURCE FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.14 UNBLOCK RESOURCE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	ignore



## 9.1.15 AUDIT REQUIRED INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	

## 9.1.16 AUDIT REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Start Of Audit Sequence Indicator	M		9.2.1.56B		YES	reject

## 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
End Of Audit Sequence Indicator	M		9.2.1.29A		YES	ignore
<b>Cell Information</b>		<i>0..&lt;max Cell NodeB&gt;</i>			EACH	ignore
>C-ID	M		9.2.1.9		-	
>Configuration Generation ID	M		9.2.1.16		-	
>Resource Operational State	M		9.2.1.52		-	
>Availability Status	M		9.2.1.2		-	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on	-	
>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary CPICH Information		<i>0..&lt;max SCPICH Cell&gt;</i>		Applicable to FDD only	EACH	ignore
>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>Secondary CCPCH Information		0..<max SCCPCH Cell>			EACH	ignore
>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>FACH Information		0..<maxF ACHCell>			EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>PRACH Information		0..<maxP RACH Cell>			EACH	ignore
>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>RACH Information		0..<maxR ACHCell>			EACH	ignore
>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>AICH Information		0..<maxP RACH Cell>		Applicable to FDD only	EACH	ignore
>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>PCPCH Information		0..<maxP CPCH Cell>		Applicable to FDD only	EACH	ignore
>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>CPCH Information		0..<maxC PCHCell>		Applicable to FDD only	EACH	ignore
>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>AP-AICH Information		0..<maxC PCHCell>		Applicable to FDD only	EACH	ignore
>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>CD/CA-ICH Information		0..<max CPCH Cell>		Applicable to FDD only	EACH	ignore
>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel Applicable to 3.84Mcps TDD only	YES	ignore
>FPACH Information		0..<max FPACH Cell>		Applicable to 1.28Mcps TDD only	EACH	ignore
>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>UARFCN Information LCR		0..<max Frequen cyinCell>		Applicable to 1.28Mcps TDD when using multiple frequencies.	EACH	ignore
>>UARFCN	M		9.2.1.65	Corresponds to Nt ( 3GPP TS 25.105 )	-	
>>Resource Operational State	M		9.2.1.52		-	
>>Availability Status	M		9.2.1.2		-	
Communication Control Port Information		0..<maxC CPin NodeB>			EACH	ignore
>Communication Control Port ID	M		9.2.1.15		-	
>Resource Operational State	M		9.2.1.52		-	
>Availability Status	M		9.2.1.2		-	
Local Cell Information		0..<maxL ocalCellin NodeB>			EACH	ignore
>Local Cell ID	M		9.2.1.38		-	
>DL or Global Capacity Credit	M		9.2.1.20B		-	
>UL Capacity Credit	O		9.2.1.65A		-	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
>Maximum DL Power Capability	O		9.2.1.39		-	
>Minimum Spreading Factor	O		9.2.1.47		-	
>Minimum DL Power Capability	O		9.2.1.46A		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Local Cell Group ID	O		9.2.1.37A		-	
>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
<b>Local Cell Group Information</b>		<i>0..&lt;max LocalCellin NodeB&gt;</i>			EACH	ignore
>Local Cell Group ID	M		9.2.1.37A		-	
>DL or Global Capacity Credit	M		9.2.1.20B		-	
>UL Capacity Credit	O		9.2.1.65A		-	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxCellinNodeB</i>	Maximum number of Cells that can be configured in Node B
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<i>maxCPCHCell</i>	Maximum number of CPCHs that can be defined in a Cell
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxPCPCHCell</i>	Maximum number of PCPCHs that can be defined in a Cell
<i>maxSCPiCHCell</i>	Maximum number of Secondary CPiCHs that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHs that can be defined in a Cell
<i>maxRACHCell</i>	Maximum number of RACHs that can be defined in a Cell
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell
<i>maxFrequencyinCell</i>	Maximum number of Frequency that can be defined in a Cell

## 9.1.17A AUDIT FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	reject
<b>CHOICE <i>Common Measurement Object Type</i></b>	M				YES	reject
> <i>Cell</i>					-	
>>C-ID	M		9.2.1.9		-	
>>Time Slot	O		9.2.3.23	Applicable to 3.84Mcps TDD only	-	
>>Time Slot LCR	O		9.2.3.24A	Applicable to 1.28Mcps TDD only	YES	reject
>>Neighbouring Cell Measurement Information		0..<maxno MeasNCells>			GLOBAL	ignore
>>>CHOICE <i>Neighbouring Cell Measurement Information</i>					-	-
>>>>Neighbouring FDD Cell Measurement Information				FDD only	-	-
>>>> Neighbouring FDD Cell Measurement Information	M		9.2.1.47C		-	-
>>>>Neighbouring TDD Cell Measurement Information				Applicable to 3.84Mcps TDD only	-	-
>>>> Neighbouring TDD Cell Measurement Information	M		9.2.1.47D		-	-
>>UARFCN	O		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (3GPP TS 25.105)	YES	reject
> <i>RACH</i>				FDD only	-	
>>C-ID	M		9.2.1.9		-	
>>Common Transport Channel ID	M		9.2.1.14		-	
> <i>CPCH</i>				FDD only	-	
>>C-ID	M		9.2.1.9		-	
>>Common Transport Channel ID	M		9.2.1.14		-	
>>Spreading Factor	O		Minimum UL Channelisation Code Length 9.2.2.22		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Common Measurement Type	M		9.2.1.11		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject
SFN Reporting Indicator	M		FN Reporting Indicator 9.2.1.29B		YES	reject
SFN	O		9.2.1.53A		YES	reject
Common Measurement Accuracy	O		9.2.1.9B		YES	reject

Range Bound	Explanation
<i>maxnoMeasNCells</i>	Maximum number of neighbouring cells that can be measured on

#### 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Common Measurement Object Type</i>	O			Common Measurement Object Type that the measurement was initiated with	YES	ignore
> <i>Cell</i>					-	
>>Common Measurement Value	M		9.2.1.12		-	
> <i>RACH</i>				FDD only	-	
>>Common Measurement Value	M		9.2.1.12		-	
> <i>CPCH</i>				FDD only	-	
>>Common Measurement Value	M		9.2.1.12		-	
SFN	O		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore
Common Measurement Achieved Accuracy	O		Common Measurement Accuracy 9.2.1.9B		YES	ignore

## 9.1.20 COMMON MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Common Measurement Object Type</i>	M			Common Measurement Object Type that the measurement was initiated with	YES	ignore
>Cell					-	
>>Common Measurement Value Information	M		9.2.1.12A		-	
>RACH				FDD only	-	
>>Common Measurement Value Information	M		9.2.1.12A		-	
>CPCH				FDD only	-	
>>Common Measurement Value Information	M		9.2.1.12A		-	
SFN	O		9.2.1.53A	Common Measurement Time Reference	YES	ignore

## 9.1.22 COMMON MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	ignore

## 9.1.23 COMMON MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore

## 9.1.24 CELL SETUP REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Local Cell ID	M		9.2.1.38		YES	reject
C-ID	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nt ( 3GPP TS 25.105 ) For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency of Primary Frequency	YES	reject
Cell Parameter ID	M		9.2.3.4		YES	reject
Maximum Transmission Power	M		9.2.1.40		YES	reject
Transmission Diversity Applied	M		9.2.3.26		YES	reject
Sync Case	M		9.2.3.18		YES	reject
Synchronisation Configuration		1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		-	
>N_OUTSYNC_IND	M		9.2.1.47B		-	
>T_RLFAILURE	M		9.2.1.56A		-	
DPCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PUSCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PRACH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
Timing Advance Applied	M		9.2.3.22A		YES	reject
SCH Information		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>CHOICE Sync Case	M				YES	reject
>>Case 1					-	
>>>Time Slot	M		9.2.3.23		-	
>>Case 2					-	
>>>SCH Time Slot	M		9.2.3.17		-	
>SCH Power	M		DL Power 9.2.1.21		-	



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>TSTD Indicator	M		9.2.1.64		-	
<b>PCCPCH Information</b>		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>TDD Physical Channel Offset	M		9.2.3.20		-	
>Repetition Period	M		9.2.3.16		-	
>Repetition Length	M		9.2.3.15		-	
>PCCPCH Power	M		9.2.3.9		-	
>SCTD Indicator	M		9.2.3.30		-	
<b>Time Slot Configuration</b>		0..15		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	
<b>Time Slot Configuration LCR</b>		0..7		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary Frequency	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	
<b>PCCPCH Information LCR</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>TDD Physical Channel Offset	M		9.2.3.20		-	
>Repetition Period	M		9.2.3.16		-	
>Repetition Length	M		9.2.3.15		-	
>PCCPCH Power	M		9.2.3.9		-	
>SCTD Indicator	M		9.2.3.30		-	
>TSTD Indicator	M		9.2.1.64		-	
<b>DwPCH Information</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>TSTD Indicator	M		9.2.1.64		-	
>DwPCH Power	M		9.2.3.5B		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Reference SFN Offset	O		9.2.3.14B		YES	ignore
<b>IPDL Parameter Information</b>		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>IPDL TDD Parameters	M		9.2.3.5D		-	
>IPDL Indicator	M		9.2.1.36F		-	
<b>UARFCN Information LCR</b>		0.. <maxFrequencyinCell-1>		Mandatory for 1.28Mcps TDD when using multiple frequencies. It indicates the UARFCN and Time Slot configuration information of the Secondary Frequency	EACH	reject
>UARFCN	M		9.2.1.65	Corresponds to Nt (3GPP TS 25.105) This IE indicates the frequency of Secondary Frequency	-	
>Time Slot Configuration LCR		1..7		This IE indicates the Time Slot configuration of Secondary Frequency	-	
>>Time Slot LCR	M		9.2.3.24A		-	
>>Time Slot Status	M		9.2.3.25		-	
>>Time Slot Direction	M		9.2.3.24		-	

<i>maxFrequencyinCell</i>	Maximum number of Frequency that can be defined in a Cell
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9.1.25 CELL SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

9.1.26 CELL SETUP FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.27 CELL RECONFIGURATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>Synchronisation Configuration</b>		0..1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		-	
>N_OUTSYNC_IND	M		9.2.1.47B		-	
>T_RLFAILURE	M		9.2.1.56A		-	
Timing Advance Applied	O		9.2.3.22A		YES	reject
<b>SCH Information</b>		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>SCH Power	M		DL Power 9.2.1.21		-	
<b>PCCPCH Information</b>		0..1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>PCCPCH Power	M		9.2.3.9		-	
Maximum Transmission Power	O		9.2.1.40		YES	reject
DPCH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PUSCH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PRACH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
<b>Time Slot Configuration</b>		0..15		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	
<b>Time Slot Configuration LCR</b>		0..7		Applicable to 1.28Mcps TDD only. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary Frequency	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		-	
>Time Slot Status	M		9.2.3.25		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Time Slot Direction	M		9.2.3.24		-	
<b>DwPCH Information</b>		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>DwPCH Power	M		9.2.3.5B		-	
<b>IPDL Parameter Information</b>		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>IPDL TDD Parameters	O		9.2.3.5D		-	
>IPDL Indicator	M		9.2.1.36F		-	
<b>CHOICE UARFCN Adjustment</b>	O			Applicable to 1.28Mcps TDD when using multiple frequencies	YES	reject
>Add					-	
<b>&gt;&gt;UARFCN Information To Add LCR</b>		1			-	
<b>&gt;&gt;&gt;UARFCN</b>	M		9.2.1.65	Corresponds to Nt ( 3GPP TS 25.105 ) This IE indicates the frequency of Secondary Frequency to add	-	
<b>&gt;&gt;&gt;Time Slot Configuration LCR</b>		1..7		This IE indicates the Time Slot configuration of Secondary Frequency to add	-	
<b>&gt;&gt;&gt;&gt;Time Slot LCR</b>	M		9.2.3.24A		-	
<b>&gt;&gt;&gt;&gt;Time Slot Status</b>	M		9.2.3.25		-	
<b>&gt;&gt;&gt;&gt;Time Slot Direction</b>	M		9.2.3.24		-	
>Modify					-	
<b>&gt;&gt;UARFCN Information To Modify LCR</b>		1.. <max Frequency> nCell-1>			-	
<b>&gt;&gt;&gt;UARFCN</b>	M		9.2.1.65	Corresponds to Nt ( 3GPP TS 25.105 ) This IE indicates the frequency of Secondary Frequency to modify	-	
<b>&gt;&gt;&gt;Time Slot Configuration LCR</b>		1..7		This IE indicates the Time Slot reconfiguration of Secondary Frequency to modify	-	
<b>&gt;&gt;&gt;&gt;Time Slot LCR</b>	M		9.2.3.24A		-	
<b>&gt;&gt;&gt;&gt;Time Slot Status</b>	M		9.2.3.25		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Time Slot Direction	M		9.2.3.24		-	
>Delete					-	
>>UARFCN Information To Delete LCR		I			-	
>>>UARFCN	M		9.2.1.65	Corresponds to Nt (3GPP TS 25.105) This IE indicates the frequency of Secondary Frequency to delete	-	

<i>maxFrequencyinCell</i>	Maximum number of Frequency that can be defined in a Cell
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### 9.1.28 CELL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.29 CELL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.30 CELL DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject

### 9.1.31 CELL DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CHOICE <i>Indication Type</i>	M				YES	ignore
> <i>No Failure</i>					-	
>>Local Cell Information		1..<max Local Cellin NodeB>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		-	
>>>Add/Delete Indicator	M		9.2.1.1		-	
>>>DL or Global Capacity Credit	C-add		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		-	
>>>Maximum DL Power Capability	C-add		9.2.1.39		-	
>>>Minimum Spreading Factor	C-add		9.2.1.47		-	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		-	
>>>Local Cell Group ID	O		9.2.1.37A		-	
>>>Reference Clock Availability	C-add		9.2.3.14A	TDD only	YES	ignore
>>Local Cell Group Information		0..<max Local Cellin NodeB>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		-	
>>>DL or Global Capacity Credit	M		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
> <i>Service Impacting</i>					-	
>>Local Cell Information		0..<max Local Cellin NodeB>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		-	
>>>DL or Global Capacity Credit	O		9.2.1.20B		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		-	
>>>Maximum DL Power Capability	O		9.2.1.39		-	
>>>Minimum Spreading Factor	O		9.2.1.47		-	
>>>Minimum DL Power Capability	O		9.2.1.46A		-	
>>>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>>Local Cell Group Information		<i>0..&lt;maxLocalCellInNodeB&gt;</i>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		-	
>>>DL or Global Capacity Credit	O		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		-	
>>Communication Control Port Information		<i>0..&lt;maxCCPinNodeB&gt;</i>			EACH	ignore
>>>Communication Control Port ID	M		9.2.1.15		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
>>Cell Information		<i>0..&lt;maxCellInNodeB&gt;</i>			EACH	ignore
>>>C-ID	M		9.2.1.9		-	
>>>Resource Operational State	O		9.2.1.52		-	
>>>Availability Status	O		9.2.1.2		-	
>>>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary CPICH Information		<i>0..&lt;maxSCPICHCell&gt;</i>		FDD only	EACH	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>Secondary CCPCH Information		0..<max SCCPCH Cell>			EACH	ignore
>>>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>>FACH Information		0..<max FACH Cell>			EACH	ignore
>>>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>PRACH Information		0..<max PRACH Cell>			EACH	ignore
>>>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>RACH Information		0..<max PRACH Cell>			EACH	ignore
>>>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>>AICH Information		0..<max PRACH Cell>		FDD only	EACH	ignore
>>>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>PCPCH Information		0..<max PCPCH Cell>		FDD only	EACH	ignore
>>>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>CPCH Information		0..<max CPCH Cell>		FDD only	EACH	ignore



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>AP-AICH Information		0..<max CPCH Cell>		FDD only	EACH	ignore
>>>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>CD/CA-ICH Information		0..<max CPCH Cell>		FDD only	EACH	ignore
>>>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 3.84Mcps TDD only	YES	ignore
>>>FPACH Information		0..<max FPACH Cell>		Applicable to 1.28Mcps TDD only	EACH	ignore
>>>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>>>UARFCN Information LCR		0..< max Frequency inCell>		Applicable to 1.28Mcps TDD when using multiple frequencies	EACH	ignore
>>>>UARFCN	M		9.2.1.65	Corresponds to Nt ( 3GPP TS 25.105 )	-	
>>>>Resource Operational State	M		9.2.1.52		-	
>>>>Availability Status	M		9.2.1.2		-	
>>>>Cause	O		9.2.1.6		YES	ignore
Cause	O		9.2.1.6		YES	ignore

Condition	Explanation
add	The IE shall be present if the Add/Delete Indicator IE is set to "Add".

Range Bound	Explanation
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C-IDs that can be configured in the Node B
<i>maxCPCHCell</i>	Maximum number of CPCHs that can be defined in a Cell
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICHs that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxPCPCHCell</i>	Maximum number of PCPCHs that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell
<i>maxFrequencyinCell</i>	Maximum number of Frequency that can be defined in a Cell

### 9.1.33 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
BCCH Modification Time	O		9.2.1.3		YES	reject
<b>MIB/SB/SIB Information</b>		<i>1..&lt;maxIB&gt;</i>			GLOBAL	reject
>IB Type	M		9.2.1.35		-	
>IB OC ID	M		9.2.1.31A	In one message, every occurrence of IB Type can only be deleted once and/or added once	-	
>CHOICE IB Deletion Indicator	M				-	
>>No Deletion					-	
>>>SIB Originator	C-SIB		9.2.1.55		-	
>>>IB SG REP	O		9.2.1.34		-	
>>>Segment Information		<i>1..&lt;max IBSEG&gt;</i>			GLOBAL	reject
>>>>IB SG POS	O		9.2.1.33		-	
>>>>Segment Type	C-CRNCO rigination		9.2.1.53B		-	
>>>>IB SG DATA	C-CRNCO rigination		9.2.1.32		-	
>>Deletion			NULL		-	

Range Bound	Explanation
<i>maxIB</i>	Maximum number of information Blocks supported in one message
<i>maxBSEG</i>	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOrigination	The IE shall be present if the <i>SIB Originator</i> IE is set to "CRNC" or if the <i>IB Type</i> IE is set to "MIB", "SB1" or "SB2"
SIB	The IE shall be present if the <i>IB Type</i> IE is set to "SIB"

### 9.1.34 SYSTEM INFORMATION UPDATE RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.35 SYSTEM INFORMATION UPDATE FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.36 RADIO LINK SETUP REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	reject
UL CCTrCH Information		0..<maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	M		9.2.1.58		-	
>TFCSI Coding	M		9.2.3.22		-	
>Puncture Limit	M		9.2.1.50		-	
>UL DPCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>UL Timeslot Information	M		9.2.3.26C		-	
>UL DPCH Information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information LCR	M		9.2.3.26E		-	
>UL SIR Target	O		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>TDD TPC UL Step Size	O		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
DL CCTrCH Information		0..<maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	M		9.2.1.58		-	
>TFCI Coding	M		9.2.3.22		-	
>Puncture Limit	M		9.2.1.50		-	
>TDD TPC DL Step Size	M		9.2.3.21		-	
>TPC CCTrCH List		0..<maxno CCTrCH>		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>DL DPCH information		0..1		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information	M		9.2.3.4E		-	
>DL DPCH information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information LCR	M		9.2.3.4O		-	
>>TSTD Indicator	M		9.2.1.64		-	
DCH Information	O		DCH TDD Information 9.2.3.4C		YES	reject
DSCH Information	O		DSCH TDD Information 9.2.3.5A		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCH Information	O		9.2.3.28		YES	reject
<b>RL Information</b>		<i>1</i>			YES	reject
>RL ID	M		9.2.1.53		-	
>C-ID	M		9.2.1.9		-	
>Frame Offset	M		9.2.1.31		-	
>Special Burst Scheduling	M		9.2.3.18A		-	
>Initial DL Transmission Power	M		DL Power 9.2.1.21	Initial power on DPCH	-	
>Maximum DL Power	M		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum DL Power	M		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>DL Time Slot ISCP Info	O		9.2.3.4F	Applicable to 3.84Mcps TDD only	-	
>DL Time Slot ISCP Info LCR	O		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	reject
>UL Synchronisation Parameters LCR		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>>Uplink Synchronisation Step Size	M		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	M		9.2.3.26G		-	
>UARFCN	O		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt ( 3GPP TS 25.105 )	YES	reject
PDSCH-RL-ID	O		RL ID 9.2.1.53		YES	ignore

Range Bound	Explanation
<i>maxnoCCTrCH</i>	Number of CCTrCHs for one UE

## 9.1.37 RADIO LINK SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port ID	M		9.2.1.15		YES	ignore
<b>RL Information Response</b>		<i>0..1</i>		Mandatory For 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	ignore
>RL ID	M		9.2.1.53		-	
>UL Time Slot ISCP Info	M		9.2.3.26D		-	
>UL PhysCH SF Variation	M		9.2.3.26B		-	
>DCH Information Response	O		9.2.1.20C		YES	ignore
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29		YES	ignore
<b>RL Information Response LCR</b>		<i>0..1</i>		Mandatory For 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	ignore
>RL ID	M		9.2.1.53		-	
>UL Time Slot ISCP Info LCR	M		9.2.3.26F		-	
>UL PhysCH SF Variation	M		9.2.3.26B		-	
>DCH Information Response	O		9.2.1.20C		YES	ignore
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.38 RADIO LINK SETUP FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
CHOICE Cause Level	M				YES	ignore
>General					-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Cause	M		9.2.1.6		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.53		-	
>>>Cause	M		9.2.1.6		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

### 9.1.39 RADIO LINK ADDITION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	reject
UL CCTrCH Information		0..<maxno CCTrCH>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>UL DPCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information	M		9.2.3.26C		-	
>UL DPCH Information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information LCR	M		9.2.3.26E		-	
>TDD TPC UL Step Size	O		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	reject
DL CCTrCH Information		0..<maxno CCTrCH>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>DL DPCH information		0..1		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information	M		9.2.3.4E		-	
>DL DPCH information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information LCR	M		9.2.3.40		-	
>TDD TPC DL Step Size	O		9.2.3.21		YES	reject
<b>RL Information</b>		<i>1</i>			YES	reject
>RL ID	M		9.2.1.53		-	
>C-ID	M		9.2.1.9		-	
>Frame Offset	M		9.2.1.31		-	
>Diversity Control Field	M		9.2.1.25		-	
>Initial DL Transmission Power	O		DL Power 9.2.1.21	Initial power on DPCH	-	
>Maximum DL Power	O		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum DL Power	O		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>DL Time Slot ISCP Info	O		9.2.3.4F	Applicable to 3.84Mcps TDD only	-	
>DL Time Slot ISCP Info LCR	O		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	reject
>UL Synchronisation Parameters LCR		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>>Uplink Synchronisation Step Size	M		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	M		9.2.3.26G		-	
>UARFCN	O		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt ( 3GPP TS 25.105 )	YES	reject

Range Bound	Explanation
<i>maxnoCCTrCH</i>	Number of CCTrCH for one UE



## 9.1.40 RADIO LINK ADDITION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
<b>RL Information Response</b>		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	ignore
>RL ID	M		9.2.1.53		-	
>UL Time Slot ISCP Info	M		9.2.3.26D		-	
>UL PhysCH SF Variation	M		9.2.3.26B		-	
>DCH Information		0..1			-	
>>CHOICE <i>Diversity Indication</i>	M				-	
>>> <i>Combining</i>				In TDD it indicates whether the old Transport Bearer shall be reused or not	-	
>>>>RL ID	M		9.2.1.53	Reference RL	-	
>>>> <i>Non Combining</i>					-	
>>>>DCH Information Response	M		9.2.1.20C		-	
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore
<b>RL Information Response LCR</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	ignore
>RL ID	M		9.2.1.53		-	
>UL Time Slot ISCP Info LCR	M		9.2.3.26F		-	
>UL PhysCH SF Variation	M		9.2.3.26B		-	
>DCH Information		0..1			-	
>>CHOICE <i>Diversity indication</i>	M				-	
>>> <i>Combining</i>				In TDD it indicates whether the old Transport Bearer shall be reused or not	-	
>>>>RL ID	M		9.2.1.53	Reference RL	-	
>>>> <i>Non Combining</i>					-	
>>>>DCH Information Response	M		9.2.1.20C		-	
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29		YES	ignore

## 9.1.41 RADIO LINK ADDITION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
CHOICE Cause Level	M				YES	ignore
>General					-	
>>Cause	M		9.2.1.6		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.53		-	
>>>Cause	M		9.2.1.6		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	reject
UL CCTrCH To Add		0..<maxnoof CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	M		9.2.1.58		-	
>TFPI Coding	M		9.2.3.22		-	
>Puncture Limit	M		9.2.1.50		-	
>UL DPCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information	M		9.2.3.26C		-	
>UL DPCH Information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information	M		9.2.3.26E		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
LCR						
>UL SIR Target	O		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD; not Applicable to 3.84Mcps TDD	YES	reject
>TDD TPC UL Step Size	O		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
UL CCTrCH To Modify		0..<maxnoof CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	O		9.2.1.58		-	
>TFCI Coding	O		9.2.3.22		-	
>Puncture Limit	O		9.2.1.50		-	
>UL DPCH To Add		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information	M		9.2.3.26C		-	
>UL DPCH To Modify		0..1			YES	reject
>>Repetition Period	O		9.2.3.16		-	
>>Repetition Length	O		9.2.3.15		-	
>>TDD DPCH Offset	O		9.2.3.19A		-	
>>UL Timeslot Information		0..<maxnoof ULs>		Applicable to 3.84Mcps TDD only	-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>UL Code Information		0..<maxnoof DPCHs>			-	
>>>>DPCH ID	M		9.2.3.5		-	
>>>>TDD Channelisation Code	O		9.2.3.19		-	
>>UL Timeslot Information LCR		0..<maxnoof ULsLCR>		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>UL Code Information LCR		0..<maxnoof DPCHsLCR >			-	
>>>>DPCH ID	M		9.2.3.5		-	
>>>>TDD Channelisation Code LCR	O		9.2.3.19a		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>> TDD UL DPCH Time Slot Format LCR	O		9.2.3.21C		YES	reject
>UL DPCH To Delete		0..<maxnoof DPCHs>			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		-	
>UL DPCH To Add LCR		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>UL Timeslot Information LCR	M		9.2.3.26E		-	
>UL SIR Target	O		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD only	YES	reject
>TDD TPC UL Step Size	O		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH To Delete		0..<maxnoof CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
DL CCTrCH To Add		0..<maxnoof CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	M		9.2.1.58		-	
>TPCI Coding	M		9.2.3.22		-	
>Puncture Limit	M		9.2.1.50		-	
>TPC CCTrCH List		0..<maxnoof CCTrCHs>		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>DL DPCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information	M		9.2.3.4E		-	
>DL DPCH Information LCR		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information LCR	M		9.2.3.4O		-	
>TDD TPC DL Step Size	O		9.2.3.21		YES	reject
DL CCTrCH To Modify		0..<maxnoof CCTrCHs>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>CCTrCH ID	M		9.2.3.3.		-	
>TFCS	O		9.2.1.58		-	
>TFCI Coding	O		9.2.3.22		-	
>Puncture Limit	O		9.2.1.50		-	
>TPC CCTrCH List		0..<maxnoof CCTrCHs>		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
>DL DPCH To Add		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information	M		9.2.3.4E		-	
>DL DPCH To Modify		0..1			YES	reject
>>Repetition Period	O		9.2.3.16		-	
>>Repetition Length	O		9.2.3.15		-	
>>TDD DPCH Offset	O		9.2.3.19A		-	
>>DL Timeslot Information		0..<maxnoof DLts>		Applicable to 3.84Mcps TDD only	-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>DL Code Information		0..<maxnoof DPCHs>			-	
>>>>DPCH ID	M		9.2.3.5		-	
>>>>TDD Channelisation Code	O		9.2.3.19		-	
>>DL Timeslot Information LCR		0..<maxnoof DLtsLCR>		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>>DL Code Information LCR		0..<maxnoof DPCHs LCR>			-	
>>>>DPCH ID	M		9.2.3.5		-	
>>>>TDD Channelisation Code LCR	O		9.2.3.19a		-	
>>>>TDD DL DPCH Time Slot Format LCR	O		9.2.3.19D		YES	reject
>DL DPCH To Delete		0..<maxnoof			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
		<i>DPCHs</i> >				
>>DPCH ID	M		9.2.3.5		-	
>DL DPCH To Add LCR		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information LCR	M		9.2.3.40		-	
>TDD TPC DL Step Size	O		9.2.3.21		YES	reject
DL CCTrCH To Delete		0..<maxnoof CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
DCHs To Modify	O		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	O		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		-	
DSCH To Modify		0..<maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		-	
>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	O		9.2.1.59		-	
>Allocation/Retention Priority	O		9.2.1.1A		-	
>Frame Handling Priority	O		9.2.1.30		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
>Transport Bearer Request Indicator	M		9.2.1.62A		-	
DSCH To Add	O		DSCH TDD Information 9.2.3.5A		YES	reject
DSCH To Delete		0..<maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		-	
USCH To Modify		0..<maxnoof USCHs>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>USCH ID	M		9.2.3.27		-	
>Transport Format Set	O		9.2.1.59		-	
>Allocation/Retention Priority	O		9.2.1.1A		-	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	-	
>Transport Bearer Request Indicator	M		9.2.1.62A		-	
USCH To Add	O		USCH Information 9.2.3.28		YES	reject
USCH To Delete		0..<maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		-	
RL Information		0..1			YES	reject
>RL ID	M		9.2.1.53		-	
>Maximum Downlink Power	O		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum Downlink Power	O		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>Initial DL Transmission Power	O		DL Power 9.2.1.21	Initial power on DPCH	YES	ignore
>UL Synchronisation Parameters LCR		0..1		Applicable to 1.28Mcps TDD only	YES	ignore
>> Uplink Synchronisation Step Size	M		9.2.3.26H			
>> Uplink Synchronisation Frequency	M		9.2.3.26G			
>UARFCN	O		9.2.1.65	Applicable to 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (3GPP TS 25.105)	YES	reject
PDSCH-RL-ID	O		RL ID 9.2.1.53		YES	ignore

Range Bound	Explanation
<i>maxnoofDCHs</i>	Maximum number of DCHs for a UE
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE
<i>maxnoofDPCHs</i>	Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD
<i>maxnoofDPCHsLCR</i>	Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD
<i>maxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>maxnoofUSCHs</i>	Maximum number of USCHs for one UE
<i>maxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link for 3.84Mcps TDD
<i>maxnoofDLtsLCR</i>	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
<i>maxnoofULts</i>	Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD
<i>maxnoofULtsLCR</i>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD

## 9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
<b>RL Information Response</b>		0..< <i>maxnoof</i> <i>RLs</i> >			EACH	ignore
>RL ID	M		9.2.1.53		-	
>DCH Information Response	O		9.2.1.20C		YES	ignore
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.29	TDD only	YES	ignore
>TFCI2 Bearer Information Response	O		9.2.2.49A	FDD only: There shall be only one TFCI2 bearer per Node B Communication Context	-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of RLs for a UE



## 9.1.44 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
CHOICE Cause Level	M				YES	ignore
>General					-	
>>Cause	M		9.2.1.6		YES	ignore
>RL Specific					-	
>>RLs Causing Reconfiguration Failure		0..<maxnoof RLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		-	
>>>Cause	M		9.2.1.6		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of RLs for a UE

## 9.1.45 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
CFN	M		9.2.1.7		YES	ignore
Active Pattern Sequence Information	O		9.2.2.A	FDD only	YES	ignore

## 9.1.46 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	reject
UL CCTrCH To Modify		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	O		9.2.1.58		-	
>Puncture Limit	O		9.2.1.50		-	
>UL SIR Target	O		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH To Delete		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		-	
DL CCTrCH To Modify		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	O		9.2.1.58		-	
>Puncture Limit	O		9.2.1.50		-	
DL CCTrCH To Delete		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		-	
DCHs To Modify	O		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	O		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		-	
RL Information		0..1			YES	reject
>RL ID	M		9.2.1.53		-	
>Maximum Downlink Power	O		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum Downlink Power	O		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>UL Synchronisation Parameters LCR		0..1		Applicable to 1.28Mcps TDD only	YES	ignore
>>Uplink Synchronisation Step Size	M		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	M		9.2.3.26G		-	

Range Bound	Explanation
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE

## 9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
RL Information Response		0..<maxnoofRLs>			EACH	ignore
>RL ID	M		9.2.1.53		-	
>DCH Information Response	O		9.2.1.20C		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of RLs for a UE

## 9.1.49 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
RL Information		1..<maxnoofRLs>			EACH	notify
>RL ID	M		9.2.1.53		-	

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of radio links for one UE

## 9.1.50 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

9.1.51 DL POWER CONTROL REQUEST ( FDD )

空

9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used when the Report characteristics type is set to "On Demand"	YES	reject
Measurement ID	M		9.2.1.42		YES	reject
CHOICE <i>Dedicated Measurement Object Type</i>	M				YES	reject
>RL					-	
>>RL Information		1..<maxnoof RLS>			EACH	reject
>>>RL ID	M		9.2.1.53		-	
>>>DPCH ID	O		9.2.3.5	TDD only	-	
>>>PUSCH Information		0..<maxnoof PUSCHs>		TDD only	GLOBAL	reject
>>>>PUSCH ID	M		9.2.3.12		-	
>RLS				FDD only	-	
>>RL Set Information		1..<maxnoof RLsets>			-	
>>>RL Set ID	M		9.2.2.39		-	
>ALL RL			NULL		-	
>ALL RLS			NULL	FDD only	-	
Dedicated Measurement Type	M		9.2.1.23		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject
CFN Reporting Indicator	M		FN Reporting Indicator 9.2.1.29B		YES	reject
CFN	O		9.2.1.7		YES	reject

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of individual RLS a measurement can be started on
<i>maxnoofPUSCHs</i>	Maximum number of PUSCHs per RL a measurement can be started on
<i>maxnoofRLsets</i>	Maximum number of individual RL Sets a measurement can be started on

## 9.1.53 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>	O			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL					-	
>>RL Information		1..<maxnoof RLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		-	
>>>DPCH ID	O		9.2.3.5	TDD only	-	
>>>Dedicated Measurement Value	M		9.2.1.24		-	
>>>CFN	O		9.2.1.7	Dedicated Measurement Time Reference	-	
>>>PUSCH Information		0..<maxnoof PUSCHs>		TDD only	GLOBAL	reject
>>>>PUSCH ID	M		9.2.3.12		-	
>RLS or ALL RLS				FDD only	-	
>>RL Set Information		1..<maxnoof RLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.39		-	
>>>Dedicated Measurement Value	M		9.2.1.24		-	
>>>CFN	O		9.2.1.7	Dedicated Measurement Time Reference	-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of individual RLs the measurement can be started on
<i>maxnoofPUSCHs</i>	Maximum number of PUSCHs per RL a measurement can be started on
<i>maxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on

## 9.1.54 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.55 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
<i>CHOICE Dedicated Measurement Object Type</i>	M			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
<i>&gt;RL or ALL RL</i>					-	
<b>&gt;&gt;RL Information</b>		<i>1..&lt;maxnoof RLs&gt;</i>			EACH	ignore
<b>&gt;&gt;&gt;RL ID</b>	M		9.2.1.53		-	
<b>&gt;&gt;&gt;DPCH ID</b>	O		9.2.3.5	TDD only	-	
<b>&gt;&gt;&gt;Dedicated Measurement Value Information</b>	M		9.2.1.24A		-	
<b>&gt;&gt;&gt;PUSCH Information</b>		<i>0..&lt;maxnoof PUSCHs&gt;</i>		TDD only	GLOBAL	reject
<b>&gt;&gt;&gt;&gt;PUSCH ID</b>	M		9.2.3.12		-	
<i>&gt;RLS or ALL RLS</i>				FDD only	-	
<b>&gt;&gt;RL Set Information</b>		<i>1..&lt;maxnoof RLSets&gt;</i>			EACH	ignore
<b>&gt;&gt;&gt;RL Set ID</b>	M		9.2.2.39		-	
<b>&gt;&gt;&gt;Dedicated Measurement Value Information</b>	M		9.2.1.24A		-	

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of individual RLs the measurement can be started on
<i>maxnoofPUSCHs</i>	Maximum number of PUSCHs per RL a measurement can be started on
<i>maxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on

#### 9.1.56 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall be used if this value was used when initiating the measurement. Otherwise, the reserved value "All NBCC" shall not be used	YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore

#### 9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall be used if the Node B Communication Context ID was set to "All NBCC" when initiating the measurement. Otherwise, the reserved value "All CRNCCC" shall not be used	YES	ignore
Measurement ID	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore

## 9.1.58 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
CHOICE Reporting Object	M			Object for which the Failure shall be reported	YES	ignore
>RL					-	
>>RL Information		1..<maxnoof RLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		-	
>>>Cause	M		9.2.1.6		-	
>RL Set				FDD only	-	
>>RL Set Information		1..<maxnoof RLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.39		-	
>>>Cause	M		9.2.1.6		-	
>CCTrCH				TDD only	-	
>>RL ID	M		9.2.1.53		-	
>>>CCTrCH List		1..<maxnoof CCTrCHs>			EACH	ignore
>>>>CCTrCH ID	M		9.2.3.3		-	
>>>>Cause	M		9.2.1.6		-	

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of RLs for one UE
<i>maxnoofRLSets</i>	Maximum number of RL Sets for one UE
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE



## 9.1.59 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
CHOICE Reporting Object	M			Object for which the Restoration shall be reported	YES	ignore
>RL				TDD only	-	
>>Radio Link Information		1..<maxnoof RLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		-	
>RL Set				FDD only	-	
>>RL Set Information		1..<maxnoof RLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.39		-	
>CCTrCH				TDD only	-	
>>RL ID	M		9.2.1.53		-	
>>CCTrCH List		1..<maxnoof CCTrCHs>			EACH	ignore
>>>CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of RLs for one UE
<i>maxnoofRLSets</i>	Maximum number of RL Sets for one UE
<i>maxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE

## 9.1.60 COMPRESSED MODE COMMAND [FDD]

空

## 9.1.61 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	O		9.2.1.18	The reserved value "All CRNCCC" shall not be used	YES	ignore
Node B Communication Context ID	O		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Cause	O		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST ( TDD )

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>PDSCH Sets To Modify</b>		<i>0..&lt;maxnoof PDSCHSets&gt;</i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	
>CHOICE <i>HCR or LCR</i>	M			See note 1 below	-	
>> <i>3.84Mcps TDD</i>					-	
>>>PDSCH To Modify Information		<i>1</i>			YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>DL Timeslot Information		<i>0..&lt;maxnoof DLts&gt;</i>			-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>DL Code Information		<i>0..&lt;maxnoof PDSCHs&gt;</i>			-	
>>>>>>PDSCH ID	M		9.2.3.10		-	
>>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>> <i>1.28Mcps TDD</i>					-	
>>>PDSCH To Modify Information LCR		<i>1</i>			YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>DL Timeslot Information LCR		<i>0..&lt;maxnoof DLtsLCR&gt;</i>			-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>DL Code Information LCR		<i>0..&lt;maxnoof PDSCHs&gt;</i>			-	
>>>>>>PDSCH ID	M		9.2.3.10		-	
>>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
<b>PDSCH Sets To Delete</b>		<i>0..&lt;maxnoof PDSCHSets&gt;</i>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>PDSCH Set ID	M		9.2.3.11		-	
PUSCH Sets To Add		0..<maxnoof PUSCHSets>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	
>PUSCH To Add Information		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>UL Timeslot Information		1..<maxnoof ULts>			-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift And Burst Type	M		9.2.3.7		-	
>>>TFCI Presence	M		9.2.1.57		-	
>>>UL Code Information		1..<maxnoof PUSCHs>			-	
>>>>PUSCH ID	M		9.2.3.12		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>PUSCH To Add Information LCR		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>UL Timeslot Information LCR		1..<maxnoof ULtsLCR>			-	
>>>Time Slot LCR	M		9.2.3.24A		-	
>>>Midamble Shift LCR	M		9.2.3.7A		-	
>>>TFCI Presence	M		9.2.1.57		-	
>>>UL Code Information LCR		1..<maxnoof PUSCHs>			-	
>>>>PUSCH ID	M		9.2.3.12		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
PUSCH Sets To Modify		0..<maxnoof PUSCHSets >			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	
>CHOICE HCR or LCR	M			See note 1 below	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>3.84Mcps TDD					-	
>>>PUSCH To Modify Information		1			YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>UL Timeslot Information		0..<maxnoof ULs>			-	
>>>>>Time Slot	M		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type	O		9.2.3.7		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>UL Code Information		0..<maxnoof PUSCHs>			-	
>>>>>>PUSCH ID	M		9.2.3.12		-	
>>>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>1.28Mcps TDD					-	
>>>PUSCH To Modify Information LCR		1			YES	reject
>>>>Repetition Period	O		9.2.3.16		-	
>>>>Repetition Length	O		9.2.3.15		-	
>>>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>>>UL Timeslot Information LCR		0..<maxnoof ULsLCR>		Applicable to 1.28Mcps TDD only	-	
>>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>>Midamble Shift LCR	O		9.2.3.7A		-	
>>>>>TFCI Presence	O		9.2.1.57		-	
>>>>>UL Code Information LCR		0..<maxnoof PUSCHs>			-	
>>>>>>PUSCH ID	M		9.2.3.12		-	
>>>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
PUSCH Sets To Delete		0..<maxnoof PUSCHSets>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	

Note 1: 该消息单元是 ASN.1 的简化描述。通过使用 ASN.1 中的 ProtocolIE-Single-Container 来实现这个选择。

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

## 9.1.63 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE ( TDD )

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE ( TDD )

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CHOICE Cause Level	M				YES	ignore
>General					-	
>>Cause	M		9.2.1.6		-	
>Set Specific					-	
>>Unsuccessful DL Shared Channel Set		0..<maxnoofPDSCHSets>			EACH	ignore
>>>PDSCH Set ID	M		9.2.3.13		-	
>>>Cause	M		9.2.1.6		-	
>>Unsuccessful UL Shared Channel Set		0..<maxnoofPUSCHSets>			EACH	ignore
>>>PUSCH Set ID	M		9.2.3.13		-	
>>>Cause	M		9.2.1.6		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxnoofPDSCHSets</i>	Maximum number of PDSCH Sets in a cell
<i>maxnoofPUSCHSets</i>	Maximum number of PUSCH Sets in a cell

## 9.1.65 RESET REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CHOICE <i>Reset Indicator</i>	M				YES	ignore
> <i>Communication Context</i>					-	
>>Communication Context Information		1..< <i>maxCommunicationContext</i> >			EACH	reject
>>>CHOICE <i>Communication Context Type</i>	M				-	
>>>>CRNC <i>Communication Context</i>					-	
>>>>CRNC <i>Communication Context ID</i>	M		9.2.1.18		-	
>>>>Node B <i>Communication Context</i>					-	
>>>>Node B <i>Communication Context ID</i>	M		9.2.1.48		-	
> <i>Communication Control Port</i>					-	
>>Communication Control Port Information		1..< <i>maxCCPinNodeB</i> >			EACH	reject
>>>Communication Control Port ID	M		9.2.1.15		-	
> <i>Node B</i>			NULL		-	

Range Bound	Explanation
<i>maxCommunicationContext</i>	Maximum number of Communication Contexts that can exist in the Node B
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B

## 9.1.66 RESET RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.67 DL POWER TIMESLOT CONTROL REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
DL Time Slot ISCP Info	O		9.2.3.4F	Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	ignore
DL Time Slot ISCP Info LCR	O		9.2.3.4P	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	ignore

## 9.1.68 RADIO LINK PREEMPTION REQUIRED INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
RL Information		0..<maxn oofRLs>			EACH	ignore
>RL ID	M		9.2.1.53		-	

Range Bound	Explanation
<i>maxnoofRLs</i>	Maximum number of radio links for one UE

## 9.1.69 INFORMATION EXCHANGE INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Information Exchange ID	M		9.2.1.36C		YES	reject
CHOICE Information Exchange Object Type	M				YES	reject
>Cell					-	
>>C-ID	M		9.2.1.9		-	
Information Type	M		9.2.1.36D		YES	reject
Information Report Characteristics	M		9.2.1.36B		YES	reject



## 9.1.70 INFORMATION EXCHANGE INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Information Exchange ID	M		9.2.1.36C		YES	ignore
CHOICE <i>Information Exchange Object Type</i>	O				YES	ignore
>Cell					-	
>>Requested Data Value	M		9.2.1.51A		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.71 INFORMATION EXCHANGE INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Information Exchange ID	M		9.2.1.36C		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.72 INFORMATION REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Information Exchange ID	M		9.2.1.36C		YES	ignore
CHOICE <i>Information Exchange Object Type</i>	M				YES	ignore
>Cell					-	
>>Requested Data Value Information	M		9.2.1.51B		-	

## 9.1.73 INFORMATION EXCHANGE TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Information Exchange ID	M		9.2.1.36C		YES	ignore

## 9.1.74 INFORMATION EXCHANGE FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Information Exchange ID	M		9.2.1.36C		YES	ignore
Cause	M		9.2.1.6		YES	ignore

## 9.2 信元的功能定义

## 9.2.0 概述

本节以表格的形式定义了 NBAP 的 IE。相对应的 ASN.1 定义请参见 3GPP TS25.433 规范。当表格定义和 ASN.1 定义有冲突时，应以 ASN.1 为准。惟一的例外是对条件 IEs 出现条件的定义，它们的定义以表格定义为准。

当一个信元用 Bit 串来表示时，如果没有特别说明，则遵循下面的规则：

- 第一位（即最左面的 bit）为最高有效位（MSB）；
- 最后一位（即最右面的 bit）为最低有效位（LSB）；
- 当从其他协议中引入 bitstrings 时，顺序将不做变化，Bit 串的第一个 bit 就是引入信息的第一个 bit。

## 9.2.1 公共参数

## 9.2.1.1 Add/Delete Indicator

该参数通知 RNC 相关资源是否已从 Node B 增加或删除。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Add/Delete Indicator			ENUMERATED (Add, Delete)	

## 9.2.1.1A Allocation/Retention Priority

该参数用来指示分配或保持（抢占）Node B 的内部资源的优先级。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Level	M		INTEGER (0..15)	This IE indicates the priority of the request. <b>Usage:</b> Value "0" means "Spare"; It shall be treated as a logical error if received. Values between "1" and "14" are ordered in decreasing order of priority, "1" being the highest and "14" the lowest. Value "15" means "No Priority"
Pre-emption Capability	M		ENUMERATED (shall not trigger pre-emption, may trigger pre-emption)	
Pre-emption Vulnerability	M		ENUMERATED (not pre-emptable, pre-emptable)	

## 9.2.1.2 Availability Status

该参数用来指示资源可用性的更详细的信息。下列值是按照 3GPP TS 25.430 中的定义，若此 IE 的值是一个空集合，则表示没有出现 3GPP TS 25.430 中描述的状态条件。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Availability Status			ENUMERATED (empty, in test, failed, power off, off line, off duty, dependency, degraded, not installed, log full, ...)	

## 9.2.1.3 BCCH Modification Time

该参数用来指示 BCCH 上应用新的系统消息的时间。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
BCCH Modification Time			INTEGER (0..511)	All SFN values in which MIB may be mapped are allowed. The tabular description is presented in 3GPP TS 25.331

## 9.2.1.4 Binding ID

该参数是用户数据流的标识符，由 Node B 分配。对于每个传输承载都是惟一的。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Binding ID			OCTET STRING (1..4,...)	

## 9.2.1.5 Blocking Priority Indicator

该参数指示了资源被阻塞的紧迫程度。下列优先级是阻塞优先级指示所支持的。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Blocking Priority Indicator			ENUMERATED (High, Normal, Low,...)	"High" priority: Block resource immediately. "Normal" priority: Block resource when idle or upon timer expiry. "Low" priority: Block resource when idle

## 9.2.1.5A Burst Mode Parameters

该参数提供了 IPDL 突发模式 (IPDL burst mode) 需要的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Burst Start	M		INTEGER (0..15)	参见 3GPP TS 25.224
Burst Length	M		INTEGER (10..25)	参见 3GPP TS 25.224
Burst Freq	M		INTEGER (1..16)	参见 3GPP TS 25.224

## 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE Cause Group</b>				
<i>&gt;Radio Network Layer</i>				
<b>&gt;&gt;Radio Network Layer Cause</b>	M		ENUMERATED (unknown C-ID,Cell not available,Power level not supported, DL radio resources not available,UL radio resources not available,RL Already Activated/allocated,Node B Resources Unavailable,Measurement not supported for the object,Combining Resources not available,Requested configuration not supported,Synchronization failure,Priority transport channel established, SIB Origination in Node B not Supported,Requested Tx Diversity Mode not supported,Unspecified,BCCH scheduling error,Measurement Temporarily not Available,Invalid CM Setting, Reconfiguration CFN not elapsed, Number of DL codes not supported, S-CPICH not supported,Combining not supported,UL SF not supported,DL SF not supported,Common Transport Channel Type not supported,Dedicated Transport Channel Type not supported,Downlink Shared Channel Type not supported,Uplink Shared Channel Type not supported,Tx diversity no longer supported,Unknown Local Cell ID,...,Number of UL codes not supported,Information temporarily not available,Information Provision not supported for the object,Cell Synchronisation not supported,Cell Synchronisation Adjustment not supported,IPDL already activated,IPDL not supported,IPDL parameters not available,Frequency Acquisition not supported)	
<i>&gt;Transport Layer</i>				
<b>&gt;&gt;Transport Layer Cause</b>	M		ENUMERATED (Transport resource unavailable,Unspecified,...)	
<i>&gt;Protocol</i>				
<b>&gt;&gt;Protocol Cause</b>			ENUMERATED (Transfer syntax error,Abstract syntax error (reject),Abstract syntax error (ignore and notify),Message not compatible with receiver state,Semantic error,Unspecified, Abstract syntax error (falsely constructed message),...)	
<i>&gt;Misc</i>				
<b>&gt;&gt;Miscellaneous Cause</b>	M		ENUMERATED (Control processing overloadHardware failure,O&M intervention,Not enough user plane processing resources,Unspecified,...)	

下表给出了不同的原因值。总的来说，“not supported”表示不具备相关能力，“not available”表示具备相关能力，但因现有资源不足而不能完成请求的操作。

Radio Network Layer cause	Meaning
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3)
Cell not Available	The concerned cell or local cell is not available
Cell Synchronisation Adjustment not supported	The concerned cell(s) do not support Cell Synchronisation Adjustment
Cell Synchronisation not supported	The concerned cell(s) do not support Cell Synchronisation
Combining not supported	The Node B does not support RL combining for the concerned cells
Combining Resources Not Available	The value of the received Diversity Control Field IE was set to "Must", but the Node B cannot perform the requested combining
Common Transport Channel Type not supported	The concerned cell(s) do not support the RACH and/or FACH and/or CPCH Common Transport Channel Type
Dedicated Transport Channel Type not supported	The concerned cell(s) do not support the Dedicated Transport Channel Type
DL Radio Resources not Available	The Node B does not have sufficient DL radio resources available
DL SF not supported	The concerned cell(s) do not support the requested DL SF
DL Shared Channel Type not supported	The concerned cell(s) do not support the Downlink Shared Channel Type
Frequency Acquisition not supported	The concerned cell(s) do not support Frequency Acquisition
Information Provision not supported for the object	The requested information provision is not supported for the concerned object types
Information temporarily not available	The requested information can temporarily not be provided
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid
IPDL already activated	The concerned cell(s) have already active IPDL ongoing
IPDL not supported	The concerned cell(s) do not support the IPDL
IPDL parameters not available	The concerned cell(s) do not have IPDL parameters defining IPDL to be applied
Measurement not Supported For The Object	At least one of the concerned cell(s) does not support the requested measurement on the concerned object type
Measurement Temporarily not Available	The Node B can temporarily not provide the requested measurement value
Node B resources unavailable	The Node B does not have sufficient resources available
Number of DL codes not supported	The concerned cell(s) do not support the requested number of DL codes
Number of UL codes not supported	The concerned cell(s) do not support the requested number of UL codes
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support
Priority transport channel established	The CRNC cannot perform the requested blocking since a transport channel with a high priority is present
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a RADIO LINK RECONFIGURATION COMMIT message was received previously, but the concerned CFN has not yet elapsed
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters
Requested Tx Diversity mode not supported	The concerned cell(s) do not support the requested transmit diversity mode
RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for

Radio Network Layer cause	Meaning
	this UE context
S-CPICH not supported	The concerned cell(s) do not support S-CPICH
SIB Origination in Node B not Supported	The Node B does not support the origination of the requested SIB for the concerned cell
Synchronisation Failure	Loss of UL Uu synchronisation
Tx diversity no longer supported	Tx diversity can no longer be supported in the concerned cell
UL Radio Resources not Available	The Node B does not have sufficient UL radio resources available
UL SF not supported	The concerned cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not supported	The concerned cell(s) do not support the Uplink Shared Channel Type
Unknown C-ID	The Node B is not aware of a cell with the provided C-ID
Unknown Local Cell ID	The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network layer related

Transport Network Layer cause	Meaning
Transport resource unavailable	The required transport resources are not available.
Unspecified	Sent when none of the above cause values applies but still the cause is Transport Network layer related

Protocol cause	Meaning
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the concerned criticality indicated "reject" (see subclause 10.3)
Abstract Syntax Error (Ignore and Notify)	The received message included an abstract syntax error and the concerned criticality indicated "ignore and notify" (see subclause 10.3)
Abstract syntax error (falsely constructed message)	The received message contained IEs in wrong order or with too many occurrences (see subclause 10.3)
Message not Compatible with Receiver State	The received message was not compatible with the receiver state (see subclause 10.4)
Semantic Error	The received message included a semantic error (see subclause 10.4)
Transfer Syntax Error	The received message included a transfer syntax error (see subclause 10.2)
Unspecified	Sent when none of the above cause values applies but still the cause is protocol related

Miscellaneous cause	Meaning
Control Processing Overload	Node B control processing overload
Hardware Failure	Node B hardware failure
Not enough User Plane Processing Resources	Node B has insufficient user plane processing resources available
O&M Intervention	Operation and Maintenance intervention related to Node B equipment
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol

## 9.2.1.7 CFN

无线连接的连接帧号。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CFN			INTEGER (0..255)	

## 9.2.1.8 CFN Offset

空。

## 9.2.1.9 C-ID

C-ID (小区识别符) 是一个 RNC 中一个小区的识别符。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
C-ID			INTEGER (0..65535)	

## 9.2.1.9A Common Channels Capacity Consumption Law

Capacity consumption law 用来向 CRNC 指示一系列的 NBAP 过程是如何消耗 Capacity Credit 的，它与分配的扩频因子有关。

该参数主要用于以下过程：

- Common Transport Channel Setup;
- Common Transport Channel Deletion.

对于 Common Transport Channel Setup 过程，会从 Capacity Credit 中消耗 consumption law 中给出的 Cost；而对于 Common Transport Channel Deletion 过程，会将这部分 Cost 返还给 Capacity Credit。

如果 Node B 的上下行内部资源能力是相互独立的，“DL cost”指示为“DL or Global Capacity Credit”，而“UL cost”指示为“UL Capacity Credit”。如果是共享资源，“DL cost”和“UL cost”指示为“DL or Global Capacity Credit”。

当进行 Common Transport Channel Setup 或 Common Transport Channel Deletion 过程时，Capacity Credit 将根据过程相关的所有物理信道 (S-CCPCH、PICH、PRACH) 进行更新。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1..<maxnoof SFs>		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL cost	M		INTEGER (0..65535)	
>UL cost	M		INTEGER (0..65535)	

Range Bound	Explanation
maxnoofSFs	Maximum number of Spreading Factors

## 9.2.1.9B Common Measurement Accuracy

该参数指示公共测量的精度。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Common Measurement Accuracy</i>				
> <i>T<sub>UTRAN-GPS</sub> Measurement Accuracy Class</i>				
>> <i>T<sub>UTRAN-GPS</sub> Measurement Accuracy Class</i>	M		<i>T<sub>UTRAN-GPS</sub> Accuracy Class 9.2.1.64C</i>	

## 9.2.1.10 Common Measurement Object Type

空。

## 9.2.1.11 Common Measurement Type

该参数指示公共测量的类型。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement Type			ENUMERATED (Received Total Wide Band Power, Transmitted Carrier Power, Acknowledged PRACH Preambles, UL Timeslot ISCP, Acknowledged PCPCH Access Preambles, Detected PCPCH Access Preambles, ..., UTRAN GPS Timing of Cell Frames for UE Positioning, SFN-SFN Observed Time Difference, UpPTS Interference)	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles", "Acknowledged PCPCH Access Preambles", "Detected PCPCH Access Preambles" are used by FDD only "UpPTS interference" is used by 1.28Mcps TDD only

## 9.2.1.12 Common Measurement Value

该参数指示符合报告条件时公共测量参数的最新值。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Common Measurement Value</i>					-	
> <i>Transmitted Carrier Power</i>					-	
>> <i>Transmitted Carrier Power Value</i>	M		INTEGER (0..100)	According to mapping in [3GPP TS 25.133] and [3GPP TS 25.123]	-	
> <i>Received Total Wide Band Power</i>					-	
>> <i>Received Total Wide Band Power Value</i>	M		INTEGER (0..621)	According to mapping in [3GPP TS 25.133] and [3GPP TS 25.123] 3GPP TS 25.133	-	
> <i>Acknowledged PRACH Preambles</i>				FDD Only	-	
>> <i>Acknowledged PRACH Preamble Value</i>	M		INTEGER (0..240,...)	According to mapping in [3GPP TS 25.133]	-	
> <i>UL Timeslot ISCP</i>				TDD Only	-	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..127)	According to mapping in [3GPP TS 25.123]	-	



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Acknowledged PCPCH Access Preambles				FDD Only	-	
>>Acknowledged PCPCH Access Preambles	M		INTEGER (0..15,...)	According to mapping in [3GPP TS 25.133]	-	
>Detected PCPCH Access Preambles				FDD Only	-	
>>Detected PCPCH Access Preambles	M		INTEGER (0..240,...)	According to mapping in [3GPP TS 25.133]	-	
>Additional Common Measurement Values					-	
>>UTRAN GPS Timing of Cell Frames for UE Positioning					-	
>>>T <sub>UTRAN-GPS</sub> Measurement Value Information	M		9.2.1.64A		YES	ignore
>>SFN-SFN Observed Time Difference					-	
>>>SFN-SFN Measurement Value Information	M		9.2.1.53E		YES	ignore
>>UpPTS interference				1.28Mcps TDD Only	-	
>>>UpPTS interference Value	M		INTEGER (0..127,...)	According to mapping in [3GPP TS 25.123]	YES	reject

### 9.2.1.12A Common Measurement Value Information

该参数提供了在消息中是否提供公共测量值，如果提供，Common Measurement Value 指示了具体的测量值。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement Availability Indicator	M			
>Measurement Available				
>>Common Measurement Value	M		9.2.1.12	
>Measurement Not Available			NULL	

### 9.2.1.13 Common Physical Channel ID

该参数惟一指示了一个小区内的一条公共物理信道。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID			INTEGER (0..255)	

9.2.1.13A Common Physical Channel Status Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID	M		9.2.1.13	
Resource Operational State	M		9.2.1.52	
Availability Status	M		9.2.1.2	

9.2.1.14 Common Transport Channel ID

该参数惟一指示了一个小区内的一条公共传输信道。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID			INTEGER (0..255)	

9.2.1.14A Common Transport Channel Information Response

该参数提供了已经建立或已被修改的公共传输信道的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID	M		9.2.1.14	
Binding ID	O		9.2.1.4	
Transport Layer Address	O		9.2.1.63	

9.2.1.14B Common Transport Channel Status Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID	M		9.2.1.14	
Resource Operational State	M		9.2.1.52	
Availability Status	M		9.2.1.2	

9.2.1.15 Communication Control Port ID

通信控制端口对应 CRNC 和 Node B 之间的一个信令承载，用于对 Node B 上下文的控制。一个 Node B 可以有多个通信控制端口（一个业务终止点有一个）。通信控制端口是在建立 Node B 通信上下文的时候进行选择的，Communication Control Port ID 是通信控制端口的标识。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Communication Control Port ID			INTEGER (0..65535)	

9.2.1.16 Configuration Generation ID

该参数指示了小区逻辑资源配置的建立。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Configuration Generation ID			INTEGER (0..255)	Value "0" means "No configuration". At possible wraparound of the ID counter in CRNC the value "0" shall not be used

## 9.2.1.17 Criticality Diagnostics

该参数是由 Node B 或 CRNC 在收到的消息没有被理解或丢失,或者消息包含逻辑错误的时候发送的。它包含未被理解或丢失的 IE。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Procedure ID		0..1		Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error	-	
>Procedure Code	M		INTEGER (0..255)		-	
>Ddmode	M		ENUMERATED(TDD, FDD,Common,...)	"Common" = common to FDD and TDD.	-	
Triggering Message	O		ENUMERATED (initiating message,successful outcome, unsuccessful outcome, outcome)	The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication	-	
Procedure Criticality	O		ENUMERATED (reject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure)	-	
Transaction ID	O		9.2.1.62		-	
Information Element Criticality Diagnostics		0..<maximum number of errors>			-	
>IE Criticality	M		ENUMERATED (reject, ignore, notify)	The IE Criticality is used for reporting the criticality of the triggering IE. The value "ignore" shall never be used	-	
>IE ID	M		INTEGER (0..65535)	The IE ID of the not understood or missing IE	-	
>Repetition Number	O		INTEGER (0..255)	The <i>Repetition Number</i> IE gives: <ul style="list-style-type: none"> <li>for a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence</li> <li>for a missing IE: The number of occurrences up to but not including the missing occurrence.</li> </ul> Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them	-	
>Message Structure	O		9.2.1.45A	The <i>Message Structure</i> IE describes the structure where the not understood or missing IE was detected. This IE is included if the not understood IE is not the top level of the message	YES	ignore
>Type Of Error	M		ENUMERATED (not understood, missing, ...)		YES	ignore

Range Bound	Explanation
<i>maxnooferrors</i>	Maximum number of IE errors allowed to be reported with a single message

### 9.2.1.18 CRNC Communication Context ID

该参数是 CRNC 通信上下文的标识。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CRNC Communication Context ID			INTEGER (0..2 <sup>20</sup> - 1)	"2 <sup>20</sup> -1" is a reserved value indicating all the CRNC Communication Contexts that can be reached by the Communication Control Port (All CRNCCC)

### 9.2.1.18A CTFC

CTFC 是一个整数。计算方法见 3GPP TS 25.331 第 14.10 节。考虑到信道的排序，对于所有的传输信道，信道 1 对应于在这个 CCTrCH 中序号最小的传输信道，信道 2 对应与序号第二小的传输信道，以此类推。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE CTFC Format</b>				
>2 bits long				
>>CTFC value	M		INTEGER (0..3)	
>4 bits long				
>>CTFC value	M		INTEGER (0..15)	
>6 bits long				
>>CTFC value	M		INTEGER (0..63)	
>8 bits long				
>>CTFC value	M		INTEGER (0..255)	
>12 bits long				
>>CTFC value	M		INTEGER (0..4095)	
>16 bits long				
>>CTFC value	M		INTEGER (0..65535)	
>max nb bits long				
>>CTFC value	M		INTEGER(0..maxCTFC)	

Range Bound	Explanation
MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^I (L_i - 1) P_i$ with the notation according to ref. 3GPP TS 25.331

### 9.2.1.19 DCH Combination Indicator

空。

### 9.2.1.20 DCH ID

该参数是专用传输信道的标识。对于同时分配给一个 UE 的所有 DCH 而言，每个 DCH 的 DCH ID 都是惟一的。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DCH ID			INTEGER (0..255)	

### 9.2.1.20A Dedicated Channels Capacity Consumption Law

Capacity Consumption Law 向 CRNC 指示一系列 NBAP 过程中是如何消耗 Capacity Credit 的, 它与每个 DPCH 分配的扩频因子和分配的时隙的有关。

该参数与下列过程相关:

- Radio Link Setup;
- Radio Link Addition;
- Radio Link Reconfiguration;
- Radio Link Deletion;
- Physical Shared Channel Reconfiguration。

Radio Link Setup 和 Radio Link Addition 过程, consumption law 的消耗应从 Capacity Credit 中减去; 而对于 Radio Link Deletion 过程, consumption law 应该加入到 Capacity Credit 中。对于 Radio Link Reconfiguration 过程, 新的扩频因子和旧的扩频因子所带来的消耗差将从 Capacity Credit 中减去, 如果这个差值是负数, 则应该在 Capacity Credit 中加入差值。

如果对于 Node B 来讲如果内部资源能力在上下行是独立的, 则 DL cost 指示为 DL or Global Capacity Credit, 而 UL Cost 指示为 UL Capacity Credit。如果是公共资源, 那么 DL costs 和 UL costs 被指示为 DL or Global Capacity Credit。

无线链路的消耗是每条 DPCH 消耗的总和。对于一个小区内一个时隙中分配给用户的第一条 DPCH, 需要考虑这个时隙内一条 DPCH 的初始消耗 (cost 1) 和一条 DPCH 的消耗 (cost 2)。对于一个小区内一个时隙中的分配给用户的其他 DPCH (不是第一条 DPCH), 只需要考虑 DPCH 的消耗 (cost 2)。

共享信道的消耗是每条 PDSCH 和 PUSCH 消耗的总和。对于一个小区内一个时隙中分配给用户的第一条 PDSCH 或 PUSCH, 需要考虑这个时隙内 PDSCH/PUSCH 的初始消耗 (cost 1) 和一条 PDSCH/PUSCH 的消耗 (cost 2)。对于一个小区内一个时隙中的分配给用户的其他 PDSCH/PUSCH (不是第一条 PDSCH/PUSCH), 只需要考虑 PDSCH/PUSCH 的消耗 (cost 2)。

对于 Physical Shared Channel Reconfiguration 过程, 先前配置中的每条 PDSCH/PUSCH 的消耗将加到 capacity credit 中, 新配置中每条 PDSCH/PUSCH 的消耗将从 capacity credit 中减去相应值。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1..<maxnoof SFs>		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL Cost 1	M		INTEGER (0..65535)	[FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>DL Cost 2	M		INTEGER (0..65535)	[FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH]
>UL Cost 1	M		INTEGER (0..65535)	FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>UL Cost 2	M		INTEGER (0..65535)	[FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH.]

Range Bound	Explanation
<i>maxnoofSFs</i>	Maximum number of Spreading Factors

## 9.2.1.20B DL or Global Capacity Credit

Capacity credit 指示 CRNC 一个本地小区或一个本地小区组的 Downlink or global capacity。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL or Global Capacity Credit			INTEGER (0..65535)	

## 9.2.1.20C DCH Information Response

该参数指示了已经建立或已被修改的 DCHs 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DCH Information Response</b>		1..< <i>maxnoof DCHs</i> >		Only one DCH per set of coordinated DCHs shall be included
>DCH ID	M		9.2.1.20	
>Binding ID	O		9.2.1.4	
>Transport Layer Address	O		9.2.1.63	

Range Bound	Explanation
<i>maxnoofDCHs</i>	Maximum number of DCH per UE

## 9.2.1.21 DL Power

该参数指示了在一个小区内相对于 P-CCPCH 的功率值。

对于 DPCH, 它指示的是一个扩频因子为 16 的码的功率值, 如果对于 SF=1, 功率值将比现有值高 12dB。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350..150)	Value = DL Power /10; Unit: dB; Range: -35.0 .. +15.0 dB; Step: 0.1dB

## 9.2.1.22 Dedicated Measurement Object Type

空。

## 9.2.1.23 Dedicated Measurement Type

该参数指示了专用测量的类型。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Type			ENUMERATED(SIR,SIR Error,Transmitted Code Power,RSCP,Rx Timing Deviation,Round Trip Time,...,Rx Timing Deviation LCR,Angle Of Arrival LCR)	"RSCP" is used by TDD only. "Rx Timing Deviation" is used by 3.84Mcps TDD only. "Rx Timing Deviation LCR" and " Angle Of Arrival LCR" are used by 1.28 Mcps TDD only. "Round Trip Time", "SIR Error" are used by FDD only

注释: 测量类型定义请参照 3GPP TS 25.215 和 3GPP TS 25.225 。

## 9.2.1.24 Dedicated Measurement Value

该参数指示符合报告条件时专用测量参数的最新值。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Dedicated Measurement Value</i>					-	
> <i>SIR Value</i>					-	
>>SIR Value	M		INTEGER (0..63)	According to mapping in 3GPP TS 25.1333GPP TS 25.133 and 3GPP TS 25.123	-	
> <i>SIR Error Value</i>				FDD only	-	
>>SIR Error Value	M		INTEGER (0..125)	According to mapping in 3GPP TS 25.1333GPP TS 25.133	-	
> <i>Transmitted Code Power Value</i>					-	
>>Transmitted Code Power Value	M		INTEGER (0..127)	According to mapping in 3GPP TS 25.1333GPP TS 25.133 and 3GPP TS 25.123. Values 0 to 9 and 123 to 127 shall not be used.	-	
> <i>RSCP</i>				TDD only	-	
>>RSCP	M		INTEGER (0..127)	According to mapping in 3GPP TS 25.123	-	
> <i>Rx Timing Deviation Value</i>				Applicable to 3.84Mcps TDD only	-	
>>Rx Timing Deviation	M		INTEGER (0..8191)	According to mapping in 3GPP TS 25.123	-	
> <i>Round Trip Time</i>				FDD only	-	
>>Round Trip Time	M		INTEGER (0..32767)	According to mapping in 3GPP TS 25.1333GPP TS 25.133	-	
> <i>Additional Dedicated Measurement Values</i>					-	
>> <i>Rx Timing Deviation Value LCR</i>				Applicable to 1.28Mcps TDD only	-	
>>>Rx Timing Deviation LCR	M		INTEGER (0..511)	According to mapping in 3GPP TS 25.123	YES	reject
>> <i>Angle Of Arrival Value LCR</i>				Applicable to 1.28Mcps TDD only	-	
>>>AOA Value LCR		1			YES	reject
>>>>AOA LCR	M		INTEGER (0..719)	According to mapping in 3GPP TS 25.123	-	
>>>>AOA LCR Accuracy Class	M		BENUMERATE D (A, B, C, D, E, F, G, H,...)	According to mapping in 3GPP TS 25.123	-	

## 9.2.1.24A Dedicated Measurement Value Information

该参数提供了在消息中是否提供专用测量值，如果提供，Dedicated Measurement Value 指示了具体的测量值。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Measurement Availability Indicator</i>	M			
> <i>Measurement Available</i>				
>>Dedicated Measurement Value	M		9.2.1.24	
>>CFN	O		9.2.1.7	Dedicated Measurement Time Reference
> <i>Measurement Not Available</i>			NULL	

## 9.2.1.24B DGPS Corrections

该参数包含了 UE 采用 GPS 辅助定位时的 DGPS 信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GPS TOW	M		INTEGER (0..604799)	Time in seconds. This field indicates the baseline time for which the corrections are valid
Status/Health	M		ENUMERATED (UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.1, no data, invalid data)	This field indicates the status of the differential corrections
Satellite Information		<i>1..&lt;max NoSat&gt;</i>		
>SatID	M		INTEGER (0..63)	Satellite ID
>IODE	M		BIT STRING (8)	This IE is the sequence number for the ephemeris for the particular satellite. It can be used to determine if new ephemeris is used for calculating the corrections that are provided. This eight-bit IE is incremented for each new set of ephemeris for the satellite and may occupy the numerical range of [0, 239] during normal operations
>UDRE	M		ENUMERATED (UDRE $\leq 1.0m$ , $1.0m < UDRE \leq 4.0m$ , $4.0m < UDRE \leq 8.0m$ , $8.0m < UDRE$ )	User Differential Range Error. This field provides an estimate of the uncertainty ( $1-\sigma$ ) in the corrections for the particular satellite. The value in this field shall be multiplied by the UDRE Scale Factor in the common Corrections Status/Health field to determine the final UDRE estimate for the particular satellite
>PRC	M		INTEGER (-2047..2047)	Pseudo Range Correction Unit: m (meters); Step: 0.32 meters
>Range Correction Rate	M		INTEGER (-127..127)	Unit: m/s; Step: 0.032 m/s



Range Bound	Explanation
<i>maxNoSat</i>	Maximum number of satellites for which information can be provided

#### 9.2.1.25 Diversity Control Field

该参数指示了现有的 RL 可能、必须或不可能和已经存在的 RL 相组合。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Control Field			ENUMERATED (May, Must, Must Not)	

#### 9.2.1.26 Diversity Indication

空。

#### 9.2.1.27 DSCH ID

该参数惟一指示了一个 Node B 上下文中的一个 DSCH。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH ID			INTEGER (0..255)	

#### 9.2.1.27A DSCH Information Response

该参数指示了一个已经建立或已经修改的 DSCHs 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DSCH Information Response</b>		<i>1..&lt;maxnoof DSCHs&gt;</i>		
>DSCH ID	M		9.2.1.27	
>Binding ID	O		9.2.1.4	
>Transport Layer Address	O		9.2.1.63	

Range Bound	Explanation
<i>maxnoofDSCHs</i>	Maximum number of DSCHs for one UE

#### 9.2.1.28 DSCH Transport Format Set

空。

#### 9.2.1.29 DSCH Transport Format Combination Set

空。

#### 9.2.1.29A End Of Audit Sequence Indicator

该参数指示了 AUDIT RESPONSE 消息是否结束了一个 audit sequence。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
End Of Audit Sequence Indicator			ENUMERATED (End of audit sequence, Not end of audit sequence)	"End of audit sequence" = all audit information has been provided by the Node B. "Not end of audit sequence" = more audit information is available

#### 9.2.1.29B FN Reporting Indicator

该参数指示了 SFN 或 CFN 是否需要和测量报告值一起被包含。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FN Reporting Indicator			ENUMERATED (FN Reporting Required, FN Reporting Not Required)	

### 9.2.1.30 Frame Handling Priority

该参数指示 DCH/DSCH 的存在期间要使用的优先级。它用于因过载而对分配资源进行暂时限制时。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER (0..15)	"0" = lowest priority, ... "15" = highest priority

### 9.2.1.31 Frame Offset

该参数是专用信道下行链路传送帧(CFN, 连接帧号)与广播信道帧偏差(小区帧号)之间要求的偏差。帧偏差用在 Iub/Iur 上的连接帧号(CFN)和 Uu 上的系统帧号(SFN)的低8比特之间的转换。帧偏差是 UE 和小区相关的。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Offset			INTEGER (0..255)	Frames

### 9.2.1.31A IB\_OC\_ID

该参数指示的是出现的一个明确的信息块。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB OC ID			INTEGER (1..16)	

### 9.2.1.31B GPS Navigation Model & Time Recovery

该参数包含 GPS navigation 消息的第一个到第三个子帧。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Navigation Message 1to3		1..<maxNoSat>		
>Transmission TOW	M		INTEGER (0..1048575)	Time of the Week when the message is broadcast
>SatID	M		INTEGER (0..63)	Satellite ID of the satellite from which the information is obtained
>TLM Message	M		BIT STRING (14)	
>Tlm Revd (C)	M		BIT STRING (2)	
>HO-Word	M		BIT STRING (22)	
>WN	M		BIT STRING (10)	
>C/A or P on L2	M		BIT STRING (2)	
>User Range Accuracy Index	M		BIT STRING (4)	
>SV Health	M		BIT STRING (6)	
>IODC	M		BIT STRING (10)	
>L2 P Data Flag	M		BIT STRING (1)	
>SF 1 Reserved	M		BIT STRING (87)	
>T <sub>GD</sub>	M		BIT STRING (8)	
>t <sub>oc</sub>	M		BIT STRING (16)	
>af <sub>2</sub>	M		BIT STRING (8)	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
>af <sub>1</sub>	M		BIT STRING (16)	
>af <sub>0</sub>	M		BIT STRING (22)	
>C <sub>ns</sub>	M		BIT STRING (16)	
>Δn	M		BIT STRING (16)	
>M <sub>0</sub>	M		BIT STRING (32)	
>C <sub>fr</sub>	M		BIT STRING (16)	
>e	M		BIT STRING (32)	
>C <sub>ff</sub>	M		BIT STRING (16)	
>(A) <sup>1/2</sup>	M		BIT STRING (32)	
>f <sub>ce</sub>	M		BIT STRING (16)	
>Fit Interval Flag	M		BIT STRING (1)	
>AODO	M		BIT STRING (5)	
>C <sub>f</sub>	M		BIT STRING (16)	
>OMEGA <sub>0</sub>	M		BIT STRING (32)	
>C <sub>u</sub>	M		BIT STRING (16)	
>f <sub>0</sub>	M		BIT STRING (32)	
>C <sub>fr</sub>	M		BIT STRING (16)	
>e	M		BIT STRING (32)	
>OMEGAdot	M		BIT STRING (24)	
>Idot	M		BIT STRING (14)	
>Spare/zero fill	M		BIT STRING (20)	

Range Bound	Explanation
<i>maxNoSat</i>	Maximum number of satellites for which information can be provided

### 9.2.1.31C GPS Ionospheric Model

该参数提供了 GPS Ionospheric 模式相关的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
α <sub>0</sub>	M		BIT STRING (8)	
α <sub>1</sub>	M		BIT STRING (8)	
α <sub>2</sub>	M		BIT STRING (8)	
α <sub>3</sub>	M		BIT STRING (8)	
β <sub>0</sub>	M		BIT STRING (8)	
β <sub>1</sub>	M		BIT STRING (8)	
β <sub>2</sub>	M		BIT STRING (8)	
β <sub>3</sub>	M		BIT STRING (8)	

9.2.1.31D GPS UTC Model

该参数提供了 GPS UTC 模式的相关信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
A <sub>1</sub>	M		BIT STRING (24)	
A <sub>0</sub>	M		BIT STRING (32)	
t <sub>ot</sub>	M		BIT STRING (8)	
Δt <sub>LS</sub>	M		BIT STRING (8)	
WN <sub>t</sub>	M		BIT STRING (8)	
WN <sub>LSF</sub>	M		BIT STRING (8)	
DN	M		BIT STRING (8)	
Δt <sub>LSF</sub>	M		BIT STRING (8)	

9.2.1.31E GPS Real-Time Integrity

该参数提供了 GPS constellation 状态的相关信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE Bad Satellites Presence</b>	M			
>Bad Satellites				
>>Satellite Information		1..<maxNoSat>		
>>>BadSatID	M		INTEGER (0..63)	Satellite ID
>No Bad Satellites			NULL	

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be provided

9.2.1.31F GPS Almanac

该参数提供了 GPS Almanac 的相关信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
WN <sub>s</sub>	M		BIT STRING (8)	
<b>Satellite Information</b>	M	1..<maxNoSat>		
>DataID	M		INTEGER (0..3)	
>SatID	M		INTEGER (0..63)	Satellite ID
>e	M		BIT STRING (16)	
>x <sub>0a</sub>	M		BIT STRING (8)	
>δi	M		BIT STRING (16)	
>OMEGADOT	M		BIT STRING (16)	
>SV Health	M		BIT STRING (8)	
>A <sup>1/2</sup>	M		BIT STRING (24)	
>OMEGA <sub>0</sub>	M		BIT STRING (24)	
>M <sub>0</sub>	M		BIT STRING (24)	
>ω	M		BIT STRING (24)	
>af <sub>0</sub>	M		BIT STRING (11)	
>af <sub>1</sub>	M		BIT STRING (11)	
SV Global Health	O		BIT STRING (364)	

Range Bound	Explanation
<i>maxNoSat</i>	Maximum number of satellites for which information can be provided

### 9.2.1.31G GPS Receiver Geographical Position (GPS RX Pos)

该参数用来指示了与特定的 Information Exchange 对象相关 GPS 接收机的地理坐标位置。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	M		ENUMERATED (North, South)	
Degrees of Latitude	M		INTEGER (0..2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N = 2^{23} \times X / 90 \times N+1$ X being the latitude in degree (0°.. 90°)
Degrees of Longitude	M		INTEGER (-2 <sup>23</sup> ..2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N = 2^{24} \times X / 360 \times N+1$ X being the longitude in degree (-180°..+180°)
Direction of Altitude	M		ENUMERATED (Height, Depth)	
Altitude	M		INTEGER (0..2 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is $N \leq a < N+1$ , except for $N=2^{15}-1$ for which the range is extended to include all greater values of (a)

### 9.2.1.32 IB\_SG\_DATA

具体内容参见 3GPP TS 25.331

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_DATA			BIT STRING	Contains "SIB data fixed" or "SIB data variable" in segment as encoded in ref. 3GPP TS 25.331

### 9.2.1.33 IB\_SG\_POS

SFN 周期 (IB\_SG\_POS < IB\_SG\_REP) 中特定信息块分段的第一个位置。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_POS			INTEGER (0..4094)	Only even positions are allowed. See ref. 3GPP TS 25.331

### 9.2.1.34 IB\_SG\_REP

信息块分段的重复距离。分段应在  $SFN \bmod IB\_SG\_REP = IB\_SG\_POS$  时发送。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_REP			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096)	Repetition period for the IB segment in frames

## 9.2.1.35 IB Type

该参数指示了一个特定的系统信息块。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB Type			ENUMERATED (MIB, SB1, SB2, SIB1, SIB2, SIB3, SIB4, SIB5, SIB6, SIB7, SIB8,SIB9, SIB10, SIB11, SIB12, SIB13, SIB13.1, SIB13.2, SIB13.3,SIB13.4, SIB14, SIB15, SIB15.1, SIB15.2, SIB15.3, SIB16, ..., SIB17, SIB15.4, SIB18,SIB15.5)	

## 9.2.1.36 Indication Type

空。

## 9.2.1.36A Information Exchange Object Type

空。

## 9.2.1.36B Information Report Characteristics

该参数定义了消息报告如何执行。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE Information Report Characteristics Type</b>				
>On Demand			NULL	
>Periodic				
>>CHOICE Information Report Periodicity Scale	M			The frequency with which the Node B shall send information reports
>>>minute				
>>>>Report Periodicity Value	M		INTEGER (1..60,...)	Unit: min
>>>>hour				
>>>>Report Periodicity Value	M		INTEGER (1..24,...)	Unit: h
>On Modification				
>>Information Threshold	O		9.2.1.36E	

## 9.2.1.36C Information Exchange ID

该参数惟一指示了每个 Node B 所请求的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Information Exchange ID	M		INTEGER (0..2 <sup>20</sup> -1)	

## 9.2.1.36D Information Type

该参数指示了 Node B 提供信息的种类。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Information Type Item	M		ENUMERATED (GPS Information,DGPS Corrections,GPS RX Pos,...)	
GPS Information	C-GPS	0..<maxNo GPSItems>		
>GPS Information Item			ENUMERATED (GPS Navigation Model & Time Recovery, GPS Ionospheric Model,GPS UTC Model,GPS Almanac, GPS Real-Time Integrity,...)	

Condition	Explanation
GPS	The IE shall be present if the <i>Information Type Item</i> IE indicates "GPS Information"

Range Bound	Explanation
<i>maxNoGPSItems</i>	Maximum number of GPS Information Items supported in one Information Exchange

### 9.2.1.36E Information Threshold

该参数指示了触发信息报告过程的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Information Type Item</i>	M			
> <i>DGPS</i>				
>>PRC Deviation	M		ENUMERATED (1, 2, 5, 10, ...)	PRC deviation in meters from the previously reported value, which shall trigger a report

### 9.2.1.36F IPDL Indicator

指示 IPDL 周期是否被激活。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IPDL Indicator			ENUMERATED (active, inactive)	

### 9.2.1.37 Limited Power Increase

空。

### 9.2.1.37A Local Cell Group ID

该参数从容量的角度指示了 Node B 中共享的资源。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Local Cell Group ID			Local Cell ID 9.2.1.38	

### 9.2.1.38 Local Cell ID

该参数标识了 Node B 中配置一个小区的逻辑资源。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Local Cell ID			INTEGER (0..268435455)	

### 9.2.1.39 Maximum DL Power Capability

该参数指示 Node B 中一个本地小区的最大下行功率能力。参考点是 antenna connector。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum DL Power Capability			INTEGER (0..500)	Unit: dBm; Range: 0..50 dBm; Step: 0.1 dB

## 9.2.1.40 Maximum Transmission Power

最大传送功率是所有允许在一个小区中同时使用的下行信道功率总和的最大值。对于多频点小区，最大发送功率为小区中一个频点下同时使用的下行信道功率总和的最大值。参考点是 antenna connector。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Transmission Power			INTEGER (0..500)	Unit: dBm; Range: 0..50 dBm; Step: 0.1 dB

## 9.2.1.40A Measurement Availability Indicator

空。

## 9.2.1.40B Measurement Change Time

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Time Scale</i>				
> <i>millisecond</i>				
>>Measurement Change Time Value	M		INTEGER (1..6000,...)	Unit: ms; Range: 10..60000 ms; Step: 10 ms

## 9.2.1.41 Measurement Filter Coefficient

该参数指示了测量中应用的过滤 (filtering) 的数量。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Filter Coefficient			ENUMERATED (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19,...)	

## 9.2.1.41A Measurement Hysteresis Time

该参数提供了测量报告过程触发时，报告判决条件满足的持续时间。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Time Scale</i>				
> <i>millisecond</i>				
>>Measurement Hysteresis Time Value	M		INTEGER (1..6000,...)	Unit: ms; Range: 10..60000 ms; Step: 10 ms

## 9.2.1.42 Measurement ID

测量标识惟一标识每个 Node B 控制端口或通信控制端口的任何一个测量。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			INTEGER (0..2 <sup>20</sup> -1)	



## 9.2.1.43 Measurement Increase/Decrease Threshold

该参数指示了触发 Event C 或 Event D 的门限。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<i>CHOICE Measurement Increase/Decrease Threshold</i>					-	
<i>&gt;Received Total Wide Band Power</i>					-	
<i>&gt;&gt;Received Total Wide Band Power</i>	M		INTEGER (0..620)	Unit: dB; Range: 0..62 dB; Step: 0.1 dB	-	
<i>&gt;Transmitted Carrier Power</i>					-	
<i>&gt;&gt;Transmitted Carrier Power</i>	M		INTEGER (0..100)	According to mapping in 3GPP TS 25.133 and 3GPP TS 25.123	-	
<i>&gt;Acknowledged PRACH Preambles</i>				FDD only	-	
<i>&gt;&gt;Acknowledged PRACH Preambles</i>	M		INTEGER (0..240,...)	According to mapping in 3GPP TS 25.133	-	
<i>&gt;UL Timeslot ISCP</i>				TDD only	-	
<i>&gt;&gt;UL Timeslot ISCP</i>	M		INTEGER (0..126)	Unit: dB; Range: 0..63 dB; Step: 0.5 dB	-	
<i>&gt;SIR</i>					-	
<i>&gt;&gt;SIR</i>	M		INTEGER (0..62)	Unit: dB; Range: 0..31 dB; Step: 0.5 dB	-	
<i>&gt;SIR Error</i>				FDD only	-	
<i>&gt;&gt;SIR Error</i>	M		INTEGER (0..124)	Unit: dB; Range: 0..62 dB; Step: 0.5 dB	-	
<i>&gt;Transmitted Code Power</i>					-	
<i>&gt;&gt;Transmitted Code Power</i>	M		INTEGER (0..112,...)	Unit: dB; Range: 0..56 dB; Step: 0.5 dB	-	
<i>&gt;RSCP</i>				TDD only	-	
<i>&gt;&gt;RSCP</i>	M		INTEGER (0..126)	Unit: dB; Range: 0..63 dB; Step: 0.5 dB	-	
<i>&gt;Round Trip Time</i>				FDD only	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Round Trip Time	M		INTEGER (0..32766)	Unit: chips; Range:0..2047.875 chips; Step: 0.625 chips	-	
>Acknowledged PCPCH Access Preambles				FDD only	-	
>>Acknowledged PCPCH Access Preambles	M		INTEGER (0..15,...)	According to mapping in 3GPP TS 25.133	-	
>Detected PCPCH Access Preambles				FDD only	-	
>>Detected PCPCH Access Preambles	M		INTEGER (0..240,...)	According to mapping in 3GPP TS 25.133	-	
>Additional Measurement Thresholds					-	
>>UpPTS interference				1.28Mcps TDD Only	-	
>>>UpPTS interference Value	M		INTEGER (0..127,...)	According to mapping in 3GPP TS 25.123	YES	reject

#### 9.2.1.44 Measurement Threshold

该参数指示了触发 Event A、B、E、F 或者 On Modification 的门限。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<i>CHOICE Measurement Threshold</i>					-	
>Received Total Wide Band Power					-	
>>Received Total Wide Band Power	M		INTEGER (0..621)	According to mapping in 3GPP TS 25.133 and 3GPP TS 25.123	-	
>Transmitted Carrier Power					-	
>>Transmitted Carrier Power	M		INTEGER (0..100)	According to mapping in 3GPP TS 25.133 and 3GPP TS 25.123	-	
>Acknowledged PRACH Preambles				FDD only	-	
>>Acknowledged PRACH Preambles	M		INTEGER (0..240,...)	According to mapping in 3GPP TS 25.133	-	
>UL Timeslot ISCP				TDD only	-	
>>UL Timeslot ISCP	M		INTEGER (0..127)	According to mapping in 3GPP TS 25.123	-	
>SIR					-	
>>SIR	M		INTEGER (0..63)	According to mapping in 3GPP TS 25.133 and 3GPP TS 25.123	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
> <i>SIR Error</i>				FDD only	-	
>>SIR Error	M		INTEGER (0..125)	According to mapping in 3GPP TS 25.133	-	
> <i>Transmitted Code Power</i>					-	
>>Transmitted Code Power	M		INTEGER (0..127)	According to mapping in 3GPP TS 25.133 and 3GPP TS 25.123	-	
> <i>RSCP</i>				TDD only	-	
>>RSCP	M		INTEGER (0..127)	According to mapping in 3GPP TS 25.123	-	
> <i>Rx Timing Deviation</i>				Applicable to 3.84Mcps TDD only	-	
>>Rx Timing Deviation	M		INTEGER (0..8191)	According to mapping in 3GPP TS 25.123	-	
> <i>Round Trip Time</i>				FDD only	-	
>>Round Trip Time	M		INTEGER (0..32767)	According to mapping in 3GPP TS 25.133	-	
> <i>Acknowledged PCPCH Access Preambles</i>				FDD only	-	
>>Acknowledged PCPCH Access Preambles	M		INTEGER (0..15,...)	According to mapping in 3GPP TS 25.133	-	
> <i>Detected PCPCH Access Preambles</i>				FDD only	-	
>>Detected PCPCH Access Preambles	M		INTEGER (0..240,...)	According to mapping in 3GPP TS 25.133	-	
> <i>Additional Measurement Thresholds</i>					-	
>> <i>UTRAN GPS Timing of Cell Frames for UE Positioning</i>					-	
>>> <i>T<sub>UTRAN-GPS</sub> Measurement Threshold Information</i>	M		9.2.1.64B		YES	reject
>> <i>SFN-SFN Observed Time Difference</i>					-	
>>> <i>SFN-SFN Measurement Threshold Information</i>	M		9.2.1.53C		YES	reject
>> <i>Rx Timing Deviation LCR</i>				Applicable to 1.28Mcps TDD Only	-	
>>>Rx Timing Deviation LCR	M		INTEGER (0..511)	According to mapping in 3GPP TS 25.123	YES	reject
>> <i>UpPTS interference</i>				1.28Mcps TDD Only	-	
>>>UpPTS interference Value	M		INTEGER (0..127,...)	According to mapping in 3GPP TS 25.123	YES	reject

## 9.2.1.45 Message Discriminator

该参数指示了 NBAP 消息是专用消息还是公共消息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Message Discriminator			ENUMERATED (Common, Dedicated)	

## 9.2.1.45A Message Structure

该参数指示了当出现错误时的多层报告消息的结构（报告采用 Information Element Criticality Diagnostics IE）。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Message Structure		1..<maxnoof levels>		The first repetition of the <i>Message Structure</i> IE corresponds to the top level of the message. The last repetition of the <i>Message Structure</i> IE corresponds to the level above the reported level for the occurred error of the message
>IE ID	M		INTEGER (0..65535)	The IE ID of this level's IE containing the not understood or missing IE
>Repetition Number	O		INTEGER (1..256)	The <i>Repetition Number</i> IE gives, if applicable, the number of occurrences of this level's reported IE up to and including the occurrence containing the not understood or missing IE. Note: All the counted occurrences of the reported IE must have the same topdown hierachical message structure of IEs with assigned criticality above them

Range Bound	Explanation
<i>maxnooflevels</i>	Maximum number of message levels to report. The value for <i>maxnooflevels</i> is 256

## 9.2.1.46 Message Type

该参数惟一指示了要发送的消息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Procedure ID	M	1		
>Procedure Code	M		INTEGER (0..255)	"0" = Audit "1" = Audit Required "2" = Block Resource "3" = Cell Deletion "4" = Cell Reconfiguration "5" = Cell Setup "6" = Common Measurement Failure "7" = Common Measurement Initiation "8" = Common Measurement Report "9" = Common Measurement Termination "10" = Common Transport Channel Delete "11" = Common Transport Channel Reconfigure "12" = Common Transport Channel Setup "13" = Reset

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Procedure ID	M	1		
>Procedure Code	M		INTEGER (0..255)	"14" = Compressed Mode Command "16" = Dedicated Measurement Failure "17" = Dedicated Measurement Initiation "18" = Dedicated Measurement Report "19" = Dedicated Measurement Termination "20" = Downlink Power Control "21" = Error Indication (For Dedicated Procedures) "23" = Radio Link Addition "24" = Radio Link Deletion "25" = Radio Link Failure "26" = Radio Link Restoration "27" = Radio Link Setup "28" = Resource Status Indication "29" = Synchronised Radio Link Reconfiguration Cancellation "30" = Synchronised Radio Link Reconfiguration Commit "31" = Synchronised Radio Link Reconfiguration Preparation "32" = System Information Update "33" = Unblock Resource "34" = Unsynchronised Radio Link Reconfiguration "35" = Error Indication (For Common Procedures) "37" = Physical Shared Channel Reconfiguration "38" = Downlink Power Timeslot Control "39" = Radio Link Preemption "40" = Information Exchange Failure "41" = Information Exchange Initiation "42" = Information Exchange Termination "43" = Information Reporting "44" = Cell Synchronisation Adjustment "45" = Cell Synchronisation Initiation "46" = Cell Synchronisation Reconfiguration "47" = Cell Synchronisation Reporting "48" = Cell Synchronisation Termination "49" = Cell Synchronisation Failure
>Ddmode	M		ENUMERATED (TDD, FDD, Common, ...)	Common = common to FDD and TDD
Type of Message	M		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

## 9.2.1.46A Minimum DL Power Capability

该参数指示了 Node B 中一个本地小区的最小下行链路功率能力。参考点为 antenna connector。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum DL Power Capability			INTEGER (0..800)	Unit: dBm; Range: -30 .. +50 dBm; Step: 0.1 dB

## 9.2.1.47 Minimum Spreading Factor

该参数指示了 Node B 中小区支持的最小扩频因子。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading Factor			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512)	[TDD – Mapping scheme for the minimum spreading factor 1 and 2: "256" means 1; "512" means 2]

## 9.2.1.47A N\_INSYNC\_IND

该参数是 Node B 用于获取或重新获取上行同步的。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_INSYNC_IND			INTEGER (1..256)	

## 9.2.1.47B N\_OUTSYNC\_IND

该参数是 Node B 用于获取或重新获取 Uu 口的上行同步的, 参见 3GPP TS 25.224 。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_OUTSYNC_IND			INTEGER (1..256)	

## 9.2.1.47C Neighbouring FDD Cell Measurement Information

空 (For FDD only)。

## 9.2.1.47D Neighbouring TDD Cell Measurement Information

空(For 3.84Mcps TDD only)。

## 9.2.1.48 Node B Communication Context ID

该参数是 Node B 的通信上下文的标识, 在给定的 Node B 中它与使用一或多条专用信道的一个 UE 的必要的专用资源有关。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Node B Communication Context ID			INTEGER (0..2 <sup>20</sup> -1)	"2 <sup>20</sup> -1" is a reserved value indicating all the existing and future Node B Communication Contexts that can be reached by the Communication Control Port (All NBCC)

## 9.2.1.49 Payload CRC Presence Indicator

该参数指示 FP 有效载荷的 16 比特 CRC 是否被使用。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Payload CRC Presence Indicator			ENUMERATED (CRC Included, CRC Not Included,...)	

## 9.2.1.49A PICH Power

该参数指示一个小区内相对 P-CCPCH 的 PICH 的功率值。对于 1.28Mcps TDD, PICH Power 指的是两个码道的功率。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PICH Power			INTEGER (-10..+5)	Unit: dB; Range: -10 .. +5 dB; Step: 1dB

## 9.2.1.50 Puncture Limit

为了使专用物理信道的数量达到最小, 该参数限定了打孔数。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Puncture Limit			INTEGER (0..15)	Unit: %; Range: 40..100 %; Step: 4 %; 100% means no puncturing

## 9.2.1.50A QE-Selector

该参数指示了被采用的 QE 的来源。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
QE-Selector			ENUMERATED (Selected, Non-Selected)	

## 9.2.1.51 Report Characteristics

该参数指示了报告的特性。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>CHOICE Report Characteristics</b>					-	
>On Demand			NULL		-	
>Periodic					-	
>>Report Periodicity	M		9.2.1.51a	The frequency with which the Node B shall send measurement reports	-	
>Event A					-	
>>Measurement Threshold	M		9.2.1.44	The threshold for which the Node B shall trigger a measurement report	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Measurement Hysteresis Time	O		9.2.1.41A		-	
>Event B					-	
>>Measurement Threshold	M		9.2.1.44	The threshold for which the Node B shall trigger a measurement report	-	
>>Measurement Hysteresis Time	O		9.2.1.41A		-	
>Event C					-	
>>Measurement Increase/Decrease Threshold	M		9.2.1.43		-	
>>Measurement Change Time	M		9.2.1.40B	The time the measurement entity shall rise on (in ms), in order to trigger a measurement report	-	
>Event D					-	
>>Measurement Increase/Decrease Threshold	M		9.2.1.43		-	
>>Measurement Change Time	M		9.2.1.40B	The time the measurement entity shall fall (in ms), in order to trigger a measurement report	-	
>Event E					-	
>>Measurement Threshold 1	M		Measurement Threshold 9.2.1.44		-	
>>Measurement Threshold 2	O		Measurement Threshold 9.2.1.44		-	
>>Measurement Hysteresis Time	O		9.2.1.41A		-	
>>Report Periodicity	O		9.2.1.51a	The frequency with which the Node B shall send measurement reports	-	
>Event F					-	
>>Measurement Threshold 1	M		Measurement Threshold 9.2.1.44		-	
>>Measurement Threshold 2	O		Measurement Threshold 9.2.1.44		-	
>>Measurement Hysteresis Time	O		9.2.1.41A		-	
>>Report Periodicity	O		9.2.1.51a	The frequency with which the Node B shall send measurement reports	-	
>Additional Report Characteristics					-	
>>On Modification					-	
>>>On Modification		1			YES	reject
>>>>Measurement Threshold	M		9.2.1.44		-	



## 9.2.1.51a Report Periodicity

该参数指示了 Node B 发送测量报告的频率。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Report Periodicity Scale</i>				
> <i>millisecond</i>				
>>Report Periodicity Value	M		INTEGER (1..6000,...)	Unit: ms; Range: 10..60000 ms; Step: 10 ms
> <i>minute</i>				
>>Report Periodicity Value	M		INTEGER (1..60,...)	Unit: min; Range: 1..60 min; Step: 1 min

## 9.2.1.51A Requested Data Value

该参数包括了消息互换过程的一些相关数据，它至少要包含下列 IE 中的一个。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DGPS Corrections	O		9.2.1.24B	
GPS Navigation Model & Time Recovery	O		9.2.1.31B	
GPS Ionospheric Model	O		9.2.1.31C	
GPS UTC Model	O		9.2.1.31D	
GPS Almanac	O		9.2.1.31F	
GPS Real-Time Integrity	O		9.2.1.31E	
GPS RX Pos	O		9.2.1.31G	

## 9.2.1.51B Requested Data Value Information

该参数指明了是否提供 Requested Data Value，如果提供，则参见 *Requested Data Value* IE 本身。在周期性报告时，当发起消息报告过程，而至少有一部分请求的消息不可得时，将使用“Information Not Available”予以指示。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Information Availability Indicator</i>	M			
> <i>Information Available</i>				
>>Requested Data Value	M		9.2.1.51A	
> <i>Information Not Available</i>			NULL	

## 9.2.1.52 Resource Operational State

该参数用于指示 Node B 失败时相关资源的当前状态。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Resource Operational State			ENUMERATED (Enabled, Disabled)	When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to 3GPP TS 25.430

9.2.1.52A Retention Priority

略。

9.2.1.53 RL ID

该参数是针对 UE 的一条无线链路的惟一标识。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL ID			INTEGER (0..31)	

9.2.1.53a RNC-Id

该参数是 UTRAN 内部 RNC 的标识。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RNC-Id			INTEGER (0..4095)	

9.2.1.53A SFN

小区系统帧号, 参见 3GPP TS 25.402。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN			INTEGER (0..4095)	

9.2.1.53B Segment Type

定义参见 3GPP TS 25.331.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Segment Type			ENUMERATED (First segment, First segment short, Subsequent segment, Last segment, Last segment short, Complete SIB, Complete SIB short,...)	

9.2.1.53C SFN-SFN Measurement Threshold Information

该参数定义了 On Modification 方式触发的 SFN-SFN Observed Time Difference 测量的相关门限。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN-SFN Change Limit	O		INTEGER(1..256)	Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit: chip; Step: 1/16 chip
Predicted SFN-SFN Deviation Limit	O		INTEGER(1..256)	Deviation of the predicated SFN-SFN from the latest measurement result, which shall trigger a new report. Unit: chip; Step: 1/16 chip

## 9.2.1.53D SFN-SFN Measurement Time Stamp

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE Mode</b>				
> <i>FDD</i>				
>>SFN	M		9.2.1.53A	Indicates the SFN of the reference cell at which the measurement has been performed
> <i>TDD</i>				
>>SFN	M		9.2.1.53A	Indicates the SFN of the reference cell at which the measurement has been performed
>>Time Slot	M		9.2.3.23	Indicates the Time Slot of the reference cell at which this measurement has been performed

## 9.2.1.53E SFN-SFN Measurement Value Information

该参数指示了和 SFN-SFN Observed Time Difference 测量相关的测量结果。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information</b>		1..<maxnoMeasNCell>		
>UC-Id	M		9.2.1.65B	
>SFN-SFN Value	M		9.2.1.53F	
>SFN-SFN Quality	O		INTEGER (0..255)	Indicates the standard deviation (std) of the SFN-SFN Observed Time Difference measurements in 1/16 chip. SFN-SFN Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Value, where x is the reported SFN-SFN Value and $\mu = E[x]$ is the expectation value of x
>SFN-SFN Drift Rate	M		INTEGER (-100..+100)	Indicates the SFN-SFN drift rate in 1/256 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell
>SFN-SFN Drift Rate Quality	O		INTEGER (0..100)	Indicates the standard deviation (std) of the SFN-SFN drift rate measurements in 1/256 chip per second. SFN-SFN Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Drift Rate, where x is the reported SFN-SFN Drift Rate and $\mu = E[x]$ is the expectation value of x
>SFN-SFN Measurement Time Stamp	M		9.2.1.53D	
<b>Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information</b>		0..<maxnoMeasNCell-1>		
>UC-Id	M		9.2.1.65B	

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

## 9.2.1.53F SFN-SFN Value

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Mode</i>				
> <i>FDD</i>				
>>SFN-SFN	M		INTEGER (0..614399)	According to mapping in 3GPP TS 25.1333GPP TS 25.133
> <i>TDD</i>				
>>SFN-SFN	M		INTEGER (0..40961)	According to mapping in 3GPP TS 25.123

## 9.2.1.54 SIB Deletion Indicator

空。

## 9.2.1.55 SIB Originator

该参数指示了 SIB 消息中是否包含的是 Node B 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIB Originator			ENUMERATED (Node B, CRNC,...)	

## 9.2.1.56 Shutdown Timer

该参数指示了当一个一般优先级的闭塞被请求时，CRNC 执行资源闭塞的时间长度。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Shutdown Timer			INTEGER (1..3600)	Unit: second

## 9.2.1.56A T\_RLFAILURE

在失步指示持续 T\_RLFAILURE 时间后，将触发无线链路失败过程。

Information Element/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T_RLFAILURE			INTEGER (0..255)	Unit: second; Range: 0 .. 25.5 s; Step: 0.1 s

## 9.2.1.56B Start Of Audit Sequence Indicator

该参数指示了 AUDIT REQUEST 消息是否启动了一个新的审核序列。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Start Of Audit Sequence Indicator			ENUMERATED (Start Of Audit Sequence, Not Start Of Audit Sequence)	

## 9.2.1.57 TFCI Presence

该参数指示了是否包含 TFCI。如果它存在于时隙中，那么它映射的信道化码将参照 3GPP TS 25.221 中的相关描述。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI presence			ENUMERATED (Present, Not Present)	

## 9.2.1.58 TFCS (Transport Format Combination Set)

传送格式组合集是编码组合信道上的传送格式组合。它是相应传输信道上的所允许的传送格式组合。

下行链路传送格式组合集适用于下行信道。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE DSCH</b>				
>No split in TFCI				This choice is made if : a) The TFCs refers to the Uplink. OR b) The mode is FDD and none of the Radio Links of the concerned UE are assigned any DSCH transport channels. OR c) The mode is TDD
>>TFCs		1..<maxnoof TFCs>		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	M		9.2.1.18A	
>>>CHOICE Gain Factors	C-PhysChan			
>>>>Signalled Gain Factors				
>>>>>CHOICE Mode	M			
>>>>>>FDD				
>>>>>>>Gain Factor $\beta_C$	M		INTEGER (0..15)	For UL DPCCH or control part of PRACH or control part of PCPCH in FDD; mapping in accordance to 3GPP TS 25.213
>>>>>>>Gain Factor $\beta_D$	M		INTEGER (0..15)	For UL DPDCH or data part of PRACH or data part of PCPCH in FDD; mapping in accordance to 3GPP TS 25.213
>>>>>>>TDD				
>>>>>>>>Gain Factor $\beta$	M		INTEGER (0..15)	For UL DPCH in TDD; mapping in accordance to 3GPP TS 25.223
>>>>>Reference TFC nr	O		INTEGER (0..3)	If this TFC is a reference TFC, this IE indicates the reference number
>>>>>Computed Gain Factors				
>>>>>>Reference TFC nr	M		INTEGER (0..3)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>There is a split in the TFCI				This choice is made if : a) The TFCs refers to the Downlink. AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned one or more DSCH transport channels
>>Transport Format Combination DCH		1..<maxTFC I_1_Combs>		The first instance of the parameter <i>Transport Format Combination DCH</i> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on
>>>CTFC(field1)	M		9.2.1.18A	
>>CHOICE Signalling Method				
>>>TFCI Range				
>>>>TFC Mapping On DSCH		1..<maxNoTFCIGroups>		
>>>>>Max TFCI(field2) Value	M		INTEGER (1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>>CTFC(field2)	M		9.2.1.18A	
>>>>>Explicit				
>>>>>Transport Format Combination DSCH		1..<maxTFC I_2_Combs>		The first instance of the parameter <i>Transport Format Combination DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on
>>>>>CTFC(field2)	M		9.2.1.18A	

Condition	Explanation
PhysChan	The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD - or PCPCH channel]

Range Bound	Explanation
<i>maxnoofTFCs</i>	The maximum number of Transport Format Combinations
<i>maxTFCI_1_Combs</i>	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
<i>maxTFCI_2_Combs</i>	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
<i>maxNoTFCIGroups</i>	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies

### 9.2.1.59 Transport Format Set

该参数定义了与一条传输信道（例如，DCH）相关的一组传送格式集合。

对于 TDD 来讲，一条 CCTrCH 中的每条传输信道的传输格式集都应该采用相同的二次交织模式（2<sup>nd</sup> Interleaving Mode）。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dynamic Transport Format Information</b>		<i>1..&lt;maxTFC count&gt;</i>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on
>Number Of Transport Blocks	M		INTEGER (0..512)	
>Transport Block Size	C-Blocks		INTEGER (0..5000)	Unit: Bits
>CHOICE Mode	M			
>>TDD				
>>>Transmission Time Interval Information	C-TTIdynamic	<i>1..&lt;maxTTI count&gt;</i>		
>>>>Transmission Time Interval	M		ENUMERATED (10, 20, 40, 80,...)	Unit: ms
<b>Semi-Static Transport Format Information</b>		<i>1</i>		
>Transmission Time Interval	M		ENUMERATED (10, 20, 40, 80, dynamic,...,5)	Unit: ms; Value "dynamic" for TDD only; Value "5" for LCR TDD only
>Type Of Channel Coding	M		ENUMERATED (No codingTDD, Convolutional, Turbo, ...)	FDD - The value "No codingTDD" shall be treated as logical error if received
>Coding Rate	C-Coding		ENUMERATED (1/2, 1/3,...)	
>Rate Matching Attribute	M		INTEGER (1..maxRM)	
>CRC Size	M		ENUMERATED (0, 8, 12, 16, 24,...)	
>CHOICE Mode	M			
>>TDD				
>>>2 <sup>nd</sup> Interleaving Mode	M		ENUMERATED ( Frame related, Timeslot related, ...)	

Condition	Explanation
Blocks	The IE shall be present if the <i>Number Of Transport Blocks</i> IE is set to a value greater than 0
Coding	The IE shall be present if the <i>Type Of Channel Coding</i> IE is set to "Convolutional" or "Turbo"
TTIdynamic	The IE shall be present if the <i>Transmission Time Interval</i> IE in the <i>Semi-Static Transport Format Information</i> IE is set to "dynamic"

Range Bound	Explanation
<i>maxTFcount</i>	Maximum number of different Transport Formats that can be included in the Transport Format Set for one transport channel
<i>maxRM</i>	Maximum number that could be set as rate matching attribute for a transport channel
<i>maxTTIcount</i>	The amount of different TTIs that are possible for that Transport Format

#### 9.2.1.60 ToAWE

TOAWE 是窗口结束点。下行链路数据帧被期望在此窗口结束点之前被收到。TOAWE 定义为相对于 Latest Time of Arrival (LTOA) 的一个正值。一个数据帧在 TOAWE 之后到达应给出一个定时调整控制帧响应 (Timing Adjustment Control frame response)。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWE			INTEGER (0..2559)	Unit: ms

#### 9.2.1.61 ToAWS

TOAWS 是窗口开始点。下行链路数据帧被期望在此窗口结束点之后被收到。TOAWS 定义为相对于 Time of Arrival Window Endpoint (TOAWE) 的一个正值。一个数据帧在 TOAWS 之前到达给出一个定时调整控制帧响应 (Timing Adjustment Control frame response)。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWS			INTEGER (0..1279)	Unit: ms

#### 9.2.1.62 Transaction ID

该参数用于联系属于同一过程的所有消息。属于同一过程的消息具有相同的 transaction ID。

该参数由一个过程发起方决定。对于公共过程，可以有多个过程并行触发，这些过程使用相同的过程码并通过相同的 Node B 控制端口告知。其中每个过程由 transaction ID 惟一标识。对于专用过程，也可以有多个过程并行触发，这些过程使用相同的过程码并且具有相同的 Node B/CRNC 通信上下文，其中每个过程由 transaction ID 惟一标识。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Transaction ID Length</i>				The Transaction ID shall be interpreted for its integer value, not for the type of encoding ("short" or "long")
> <i>Short</i>				
>>Transaction ID Value	M		INTEGER (0..127)	
> <i>Long</i>				
>>Transaction ID Value	M		INTEGER (0..32767)	

#### 9.2.1.62A Transport Bearer Request Indicator

该参数指示是否需要建立新的传输承载来承载相关的传输信道。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Request Indicator			ENUMERATED (Bearer Requested, Bearer Not Requested, ...)	

#### 9.2.1.63 Transport Layer Address

该参数定义了 Node B 的传输地址。具体内容请参见 3GPP TS 25.426。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Layer Address			BIT STRING (1..160, ...)	

#### 9.2.1.64 TSTD Indicator

该参数指示 TSTD 是否被激活。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSTD Indicator			ENUMERATED (active, inactive)	

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

该参数指示了与 UTRAN GPS Timing of Cell Frames for UE Positioning 相关的测量结果。



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
$T_{\text{UTRAN-GPS}}$		<i>1</i>		Indicates the UTRAN GPS Timing of Cell Frames for UE Positioning. According to mapping in 3GPP TS 25.133 GPP TS 25.133. Significant values range from 0 to 37158911999999
>MS	M		INTEGER (0..16383)	Most Significant Part
>LS	M		INTEGER (0..4294967295)	Least Significant Part
$T_{\text{UTRAN-GPS}}$ Quality	O		INTEGER (0..255)	Indicates the standard deviation (std) of the $T_{\text{UTRAN-GPS}}$ measurements in 1/16 chip. $T_{\text{UTRAN-GPS}}$ Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported $T_{\text{UTRAN-GPS}}$ Value, where $x$ is the reported $T_{\text{UTRAN-GPS}}$ Value and $\mu = E[x]$ is the expectation value of $x$
$T_{\text{UTRAN-GPS}}$ Drift Rate	M		INTEGER (-50..+50)	Indicates the $T_{\text{UTRAN-GPS}}$ drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock
$T_{\text{UTRAN-GPS}}$ Drift Rate Quality	O		INTEGER (0..50)	Indicates the standard deviation (std) of the $T_{\text{UTRAN-GPS}}$ drift rate measurements in 1/256 chip per second. $T_{\text{UTRAN-GPS}}$ Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported $T_{\text{UTRAN-GPS}}$ Drift Rate, where $x$ is the reported $T_{\text{UTRAN-GPS}}$ Drift Rate and $\mu = E[x]$ is the expectation value of $x$

### 9.2.1.64B $T_{\text{UTRAN-GPS}}$ Measurement Threshold Information

该参数指示了以 On Modification 方式触发 UTRAN GPS Timing of Cell Frames for UE Positioning 测量的相关门限。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
$T_{\text{UTRAN-GPS}}$ Change Limit	O		INTEGER (1..256)	Change of $T_{\text{UTRAN-GPS}}$ value compared to previously reported value, which shall trigger a new report. Unit: chip; Step: 1/16 chip
Predicted $T_{\text{UTRAN-GPS}}$ Deviation Limit	O		INTEGER (1..256)	Deviation of the predicated $T_{\text{UTRAN-GPS}}$ from the latest measurement result, which shall trigger a new report. Unit: chip; Step: 1/16 chip

9.2.1.64C T<sub>UTRAN-GPS</sub> Accuracy Class

该参数指示了 UTRAN GPS Timing of Cell Frames for UE Positioning 测量的精度等级。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GPS</sub> Accuracy Class			ENUMERATED (Accuracy Class A, Accuracy Class B, Accuracy Class C, ...)	More information about T <sub>UTRAN-GPS</sub> Measurement Accuracy Class is included in 3GPP TS 25.1333GPP TS 25.133

## 9.2.1.65 UARFCN

指示信道号的中心频率。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER (0..16383,...)	Unit: MHz; Range: 0 .. 3276.6 MHz; Step: 0.2 MHz; (subclause 5.4.3 in 3GPP TS 25.105)

## 9.2.1.65A UL Capacity Credit

该参数通知 CRNC 本地小区或本地小区组的上行能力。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Capacity Credit			INTEGER (0..65535)	

## 9.2.1.65B UTRAN Cell Identifier (UC-Id)

该参数是 UTRAN 中小区的标识。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RNC-Id	M		9.2.1.53a	
C-Id	M		9.2.1.9	

## 9.2.1.66 UL FP Mode

该参数定义了上行链路中 FP 所采用的模式 (Normal 或 Silent)。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL FP Mode			ENUMERATED (Normal, Silent,...)	

## 9.2.1.67 UL interference level

空。

## 9.2.1.67A UL SIR

该参数指示收到的 UL SIR。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL SIR			INTEGER (-82..173)	Value = UL SIR/10; Unit: Db; Range: -8.2 .. +17.3 dB; Step: 0.1 dB

## 9.2.2 FDD specific parameters

空。

## 9.2.3 TDD specific Parameters

## 9.2.3.1 Block STTD Indicator

空。

## 9.2.3.2 Burst Type

空。

## 9.2.3.3 CCTrCH ID

专用信道和共享信道的 CCTrCH ID 明确指示了一条无线链路中的上行或下行 CCTrCH。对于 S-CCPCH，它明确指示了小区内一条下行的 CCTrCH。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CCTrCH ID			INTEGER (0..15)	

## 9.2.3.4 Cell Parameter ID

该参数惟一标识了小区中的一组参数：下行同步序列 SYNC-DL、上行同步序列 SYNC-UL sequences、扰码、midamble 码。具体对应关系请参见 3GPP TS 25.223。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Parameter ID			INTEGER (0..127,...)	

## 9.2.3.4A Constant Value

该参数是 UE 用来为 DCH、USCH 或 RACH 设置合适的上行发送功率而给出的功率余量。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Constant Value			INTEGER (-10..10,...)	Unit: dB; Range: -10 .. +10 dB; Step: 1 dB

## 9.2.3.4B DL Timeslot ISCP

该参数定义了 UE 下行时隙测量到的干扰，参见 3GPP TS 25.225。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot ISCP			INTEGER (0..91)	According to mapping in ref. 3GPP TS 25.225

## 9.2.3.4C DCH TDD Information

该参数提供了建立的 DCHs 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DCH TDD Information</b>		<i>1..&lt;maxnoof DCHs&gt;</i>		
>Payload CRC Presence Indicator	M		9.2.1.49	
>UL FP Mode	M		9.2.1.66	
>ToAWS	M		9.2.1.61	
>ToAWE	M		9.2.1.60	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxnoof DCHs&gt;</i>		
>>DCH ID	M		9.2.1.20	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped
>>Transport Format Set	M		9.2.1.59	For UL
>>Transport Format Set	M		9.2.1.59	For DL
>>Allocation/Retention Priority	M		9.2.1.1A	
>>Frame Handling Priority	M		9.2.1.30	
>>QE-Selector	C-Coor DCH		9.2.1.50A	

Condition	Explanation
CoordDCH	The IE shall be present if this DCH is part of a set of coordinated DCHs (number of instances of the <i>DCH Specific Info</i> IE is greater than 1)

Range Bound	Explanation
<i>maxnoofDCHs</i>	Maximum number of DCHs for one UE

#### 9.2.3.4D DCHs TDD To Modify

该参数提供了修改的 DCHs 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DCHs TDD To Modify</b>		<i>1..&lt;maxnoof DCHs&gt;</i>		
>UL FP Mode	O		9.2.1.66	
>ToAWS	O		9.2.1.61	
>ToAWE	O		9.2.1.60	
>Transport Bearer Request Indicator	M		9.2.1.62A	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxnoof DCHs&gt;</i>		
>>DCH ID	M		9.2.1.20	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped
>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped
>>Transport Format Set	O		9.2.1.59	For the UL
>>Transport Format Set	O		9.2.1.59	For the DL
>>Allocation/Retention Priority	O		9.2.1.1A	
>>Frame Handling Priority	O		9.2.1.30	

Range Bound	Explanation
<i>maxnoofDCHs</i>	Maximum number of DCHs for one UE

#### 9.2.3.4E DL Timeslot Information

该参数提供了下行时隙建立的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DL Timeslot Information</b>		<i>1..&lt;maxnoof DLs&gt;</i>		
>Time Slot	M		9.2.3.23	
>Midamble Shift And Burst Type	M		9.2.3.7	
>TFCI Presence	M		9.2.1.57	
>DL Code Information	M		TDD DL Code Information 9.2.3.19B	

Range Bound	Explanation
<i>maxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link

#### 9.2.3.4F DL Time Slot ISCP Info

该参数提供了一条无线链路每个时隙下行干扰电平的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DL Time Slot ISCP Info</b>		<i>1..&lt;maxnoof DLts&gt;</i>		
>Time Slot	M		9.2.3.23	
>DL Timeslot ISCP	M		9.2.3.4B	

Range Bound	Explanation
<i>maxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link for 3.84Mcps TDD

#### 9.2.3.4G Cell Sync Burst Code

该参数指示了给定的小区同步突发 (Cell Sync Burst) 采用的码。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Code			INTEGER (0..7,...)	

#### 9.2.3.4H Cell Sync Burst Code Shift

该参数指示了给定的小区同步突发 (Cell Sync Burst) 码偏移的数目。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Code Shift			INTEGER (0..7)	

#### 9.2.3.4I CSB Measurement ID

该参数惟一指示了每个 Node B 控制端口的 Cell Synchronisation Burst 测量。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CSB Measurement ID			INTEGER (0..65535)	

#### 9.2.3.4J Cell Sync Burst Repetition Period

该参数指示了小区同步突发传送/测量重复进行的连续的无线帧数。例如，如果无线帧  $J$  的时隙  $K$  用来进行小区同步突发传送/测量，那么所有无线帧  $J+n*Repetition\ Period$  都会用来做小区同步突发传送/测量。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Repetition Period			INTEGER (0..4095)	

#### 9.2.3.4K Cell Sync Burst SIR

该参数指示了小区同步突发测量的信号干扰比，参见 3GPP TS 25.225。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst SIR			INTEGER (0..31)	According to mapping in 3GPP TS 25.123

#### 9.2.3.4L Cell Sync Burst Timing

该参数定义了相邻小区小区同步突发的开始时间，参见 3GPP TS 25.225。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in 3GPP TS 25.123
>Initial Phase				
>>Cell Synch Burst Timing Value	M		INTEGER (0.. 1048575,...)	
>Steady State Phase				
>>Cell Synch Burst Timing Value	M		INTEGER (0..255,...)	

#### 9.2.3.4M Cell Sync Burst Timing Threshold

该参数定义了触发 CELL SYNCHRONISATION REPORT 过程的门限。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Timing Threshold			INTEGER (0..254)	Unit: chip; Range: 0 .. 31.75 chips; Step: 0.125 chip

#### 9.2.3.4N CSB Transmission ID

该参数惟一定义了每个 Node B 控制端口的小区同步突发传送。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CSB Transmission ID			INTEGER (0..65535)	

#### 9.2.3.4O DL Timeslot Information LCR

该参数给出了建立下行时隙所需要的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DL Timeslot Information LCR</b>		<i>1..&lt;maxnoof DLtsLCR&gt;</i>		
>Time Slot LCR	M		9.2.3.24A	
>Midamble Shift LCR	M		9.2.3.7A	
>TFCI Presence	M		9.2.1.57	
>DL Code Information	M		TDD DL Code Information LCR 9.2.3.19C	

Range Bound	Explanation
<i>maxnoofDLtsLCR</i>	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD

#### 9.2.3.4P DL Time Slot ISCP Info LCR

该参数给出了一条无线链路每个时隙的下行干扰电平的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DL Time Slot ISCP Info LCR</b>		<i>1..&lt;maxnoof DLtsLCR&gt;</i>		
>Time Slot LCR	M		9.2.3.24A	
>DL Timeslot ISCP	M		9.2.3.4B	

Range Bound	Explanation
<i>maxnoofDLtsLCR</i>	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD

#### 9.2.3.5 DPCH ID

该参数明确指示了一条无线链路内的 DPCH。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH ID			INTEGER (0..239)	

#### 9.2.3.5A DSCH TDD Information

该参数给出了建立 DSCHs 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>DSCH TDD Information</b>		<i>1..&lt;maxnoof DSCHs&gt;</i>		
>DSCH ID	M		9.2.1.27	
>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DSCH is mapped
>Transport Format Set	M		9.2.1.59	For DSCH
>Allocation/Retention Priority	M		9.2.1.1A	
>Frame Handling Priority	M		9.2.1.30	
>ToAWS	M		9.2.1.61	
>ToAWE	M		9.2.1.60	

Range Bound	Explanation
<i>maxnoofDSCHs</i>	Maximum number of DSCH for one UE

### 9.2.3.5B DwPCH Power

该参数给出了在一个小区内 DwPCH 信道的发送功率。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DwPCH Power			INTEGER (-150..+400,...)	Unit: dBm; Range: -15 ..+40 dBm; Step: 0.1 dB

### 9.2.3.5C Frame Adjustment Value

该参数指示了初始同步建立阶段帧号的校准。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Adjustment Value			INTEGER (0..4095)	$SFN_{new}=(SFN_{old}+Frame\ Adjustment\ Value)\ mod\ 4096$

### 9.2.3.5D IPDL TDD Parameter

该参数给出了激活时 3.84Mcps TDD 的 IPDL 信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP SpacingTDD	M		ENUMERATED (30, 40, 50, 70, 100, ...)	See 3GPP TS 25.224
IP Start	M		INTEGER (0..4095)	See 3GPP TS 25.224
IP Slot	M		INTEGER (0..14)	See 3GPP TS 25.224
IP PCCPCH	M		ENUMERATED (Switch off 1 frame, Switch off 2 frames)	See 3GPP TS 25.224
Burst Mode parameters	O		9.2.1.5A	

### 9.2.3.5E Max FPACH Power

该参数给出了在一个小区内的 FPACH 信道最大发送功率。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FPACH Power			INTEGER (-150..+400,...)	Unit: dBm; Range: -15 ..+40 dBm; Step: 0.1 dB

### 9.2.3.6 Max PRACH Midamble Shift

该参数指示了小区中用到的最大的 Midamble 偏移数。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max PRACH Midamble Shift			ENUMERATED (4, 8,...)	

### 9.2.3.7 Midamble Shift And Burst Type

该参数指示了 3.84Mcps TDD 突发的种类和 midamble 的分配。



256 chip 长的 midamble 支持 3 种不同的偏移, 512chip 长的 midamble 支持 8 种或者 16 种偏移。

Midamble 的 3 种不同的分配方式:

- (1) 默认的 midamble: midamble 分配根据相关联的信道化编码 (DL 和 UL) 由 L1 选择;
- (2) 公共的 midamble: midamble 分配根据相关联的信道化编码数目 (只能在 DL) 由 L1 选择;
- (3) 特定 UE 的 midamble: 一个特定 UE 的 midamble 被明确的分配 (DL 和 UL)。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<i>CHOICE Burst Type</i>				
<i>&gt;Type1</i>				
<i>&gt;&gt;Midamble Configuration Burst Type 1 And 3</i>	M		INTEGER (4, 8, 16)	As defined in 3GPP TS 25.221
<i>&gt;&gt;CHOICE Midamble Allocation Mode</i>	M			
<i>&gt;&gt;&gt;Default Midamble</i>			NULL	
<i>&gt;&gt;&gt;Common Midamble</i>			NULL	
<i>&gt;&gt;&gt;UE Specific Midamble</i>				
<i>&gt;&gt;Midamble Shift Long</i>	M		INTEGER (0..15)	
<i>&gt;Type2</i>				
<i>&gt;&gt;Midamble Configuration Burst Type 2</i>	M		INTEGER (3,6)	As defined in 3GPP TS 25.221
<i>&gt;&gt;CHOICE Midamble Allocation Mode</i>	M			
<i>&gt;&gt;&gt;Default Midamble</i>			NULL	
<i>&gt;&gt;&gt;Common Midamble</i>			NULL	
<i>&gt;&gt;&gt;UE Specific Midamble</i>				
<i>&gt;&gt;Midamble Shift Short</i>	M		INTEGER (0.5)	
<i>&gt;Type3</i>				UL only
<i>&gt;&gt;Midamble Configuration Burst Type 1 And 3</i>	M		INTEGER (4, 8, 16)	As defined in 3GPP TS 25.221
<i>&gt;&gt;CHOICE Midamble Allocation Mode</i>	M			
<i>&gt;&gt;&gt;Default Midamble</i>			NULL	
<i>&gt;&gt;&gt;UE Specific Midamble</i>				
<i>&gt;&gt;Midamble Shift Long</i>	M		INTEGER (0..15)	

### 9.2.3.7A Midamble Shift LCR

该参数指示了 1.28Mcps TDD Midamble 的分配方法。

Midamble 的 3 种不同的分配方式:

- (1) 默认的 midamble: midamble 分配根据相关联的信道化码 (DL 和 UL) 由 L1 选择;
- (2) 公共的 midamble: midamble 分配根据信道化码的数目 (只能在 DL) 由 L1 选择;
- (3) 特定 UE 的 midamble: 一个特定 UE 的 midamble 被明确的分配 (DL 和 UL)。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Midamble Allocation Mode	M		ENUMERATED (Default midamble, Common midamble, UE specific midamble,...)	
Midamble Shift Long	C-UE		INTEGER (0..15)	
Midamble Configuration LCR	M		ENUMERATED (2, 4, 6, 8, 10, 12, 14, 16, ...)	As defined in 3GPP TS 25.221

Condition	Explanation
UE	The IE shall be present if the <i>Midamble Allocation Mode</i> IE is set to "UE-specific midamble"

9.2.3.7B Number Of cycles Per SFN Period

空。

9.2.3.7C Number Of Repetitions Per Cycle Period

空。

9.2.3.8 Paging Indicator Length

该参数指示一个时隙上发送的寻呼指示符号的数量，参见 3GPP TS 25.221。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging Indicator Length			ENUMERATED (2, 4, 8,...)	

9.2.3.9 PCCPCH Power

该参数是一个小区中 P-CCPCH 信道（两个码道）的发送功率。P-CCPCH 功率是 TDD-cell 中的一个参考功率。参考点是 antenna connector。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCCPCH Power			INTEGER (-150..+400,...)	Unit: dBm; Range: -15 ..+40 dBm; Step: 0.1 dB

9.2.3.10 PDSCH ID

该参数明确指示了一个小区中的 PDSCH。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PDSCH ID			INTEGER (0..255)	

9.2.3.11 PDSCH Set ID

该参数明确指示了一个小区中的 PDSCH 集。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PDSCH Set ID			INTEGER (0..255)	See ref. 3GPP TS 25.430

9.2.3.12 PUSCH ID

该参数明确指示了一个小区中的 PUSCH。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PUSCH ID			INTEGER (0..255)	

## 9.2.3.13 PUSCH Set ID

该参数明确指示了一个小区中的 PUSCH 集。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PUSCH Set ID			INTEGER (0..255)	See ref. 3GPP TS 25.430

## 9.2.3.14 PRACH Midamble

该参数指示了是否只有基本 Midamble 序列或是用到了 time-inverted Midamble 序列。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PRACH Midamble			ENUMERATED (Inverted, Direct,...)	

## 9.2.3.14A Reference Clock Availability

该参数用来指示小区同步时是否存在参考时钟。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference Clock Availability			ENUMERATED (Available, Not Available)	

## 9.2.3.14B Reference SFN Offset

该参数指示了参考 SFN 相对于同步端口测到的 SFN 应该偏移的帧数。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference SFN Offset			INTEGER (0..255)	

## 9.2.3.15 Repetition Length

该参数描述了重复周期中连续的无线帧数量，在这些无线帧中为相同的物理信道安排了相同的时隙，参见 3GPP TS 25.331。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Length			INTEGER (1..63)	

## 9.2.3.16 Repetition Period

该参数描述了重复采用相同的物理信道时隙的分配方法时连续的无线帧数目。这就意味着如果时隙  $K$  被分配给物理信道的第  $J$  个无线帧，它也在所有的无线帧  $J+n*Repetition\ Period$  ( $n$  为整数) 将被分配给相同的物理信道。参见 3GPP TS 25.331。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Period			ENUMERATED (1, 2, 4, 8, 16, 32, 64,...)	

## 9.2.3.17 SCH Time Slot

空。

## 9.2.3.18 Sync Case

SCH 和 PCCPCH 信道映射到一个或两个下行时隙，它们的分配有两种形式：

- (1) SCH 和 PCCPCH 被分配到一个单独的 TS# $k$ ;

(2) SCH 被分配到两个 TS: TS#k 和 TS#k+8, PCCPCH 被分配到 TS#k

对于 1.28Mcps TDD 这个 IE 不需要。如果在 CRNC 发到 Node B 的消息中包含这个 IE, 则 CRNC 默认为 case 1), 而 Node B 将不做任何处理。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sync Case			INTEGER (1..2,...)	

#### 9.2.3.18A Special Burst Scheduling

该参数定义了采用 DTX 时 special burst 间的帧数。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Special Burst Scheduling			INTEGER (1..256)	Number of frames between special burst transmission during DTX

#### 9.2.3.18B SYNC\_DL Code ID

略。

#### 9.2.3.18C Sync Frame Number

该参数定义了 cell synchronisation bursts 传输或临小区的 cell synchronisation bursts 需要测量时每个 Cycle Length 中 Sync frame 的个数。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sync Frame Number			INTEGER (1..10)	

#### 9.2.3.18D Synchronisation Report Characteristics

该参数定义了 cell synchronisation bursts 上的测量如何进行。

cell synchronisation bursts 上的测量报告应该提供不同的方式。在 frequency acquisition 阶段, 当频率锁定完成时应发送测量报告。在 initial 阶段, 对于 late-entrant 小区上的测量, 当帧测量完成应立即上报。

在 steady-state 阶段, 每个帧测量、每个 SFN 周期、每个循环长度或仅当超出请求门限时, 可以提供测量报告。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Synchronisation Report Characteristics Type	M		ENUMERATED (Frame related, SFN period related, Cycle length related, Threshold exceeding, Frequency Acquisition completed,...)	
Threshold Exceeding	C-ThresholdExceeding			Applies only to the Steady State Phase
>Cell Sync Burst Threshold Information		1..<maxnoofCellSyncBursts>		
>>Sync Frame Number To Receive	M		Sync Frame Number 9.2.3.18C	
>>Cell Sync Burst Information		1..<maxnoofreceptionsperSyncFrame>		
>>>Cell Sync Burst Code	M		9.2.3.4G	
>>>Cell Sync Burst Code Shift	M		9.2.3.4H	
>>>Cell Sync Burst Arrival Time	O		Cell Sync Burst Timing 9.2.3.4L	
>>>Cell Sync Burst Timing Threshold	O		9.2.3.4M	

Range Bound	Explanation
<i>maxnoofCellSyncBursts</i>	Maximum number of cell synchronisation burst per cycle
<i>maxnoofreceptionsperSyncFrame</i>	Maximum number of cell synchronisation burst receptions per Sync Frame

### 9.2.3.18E Synchronisation Report Type

该参数指示了在 individual synchronisation 阶段需要提供的同步报告类型。请参见 3GPP TS 25.402。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Synchronisation Report Type			ENUMERATED (Initial Phase, Steady-State Phase, Late-Entrant Cell, Frequency Acquisition,...)	

### 9.2.3.19 TDD Channelisation Code

该参数指示了给定的物理信道的信道化码。TDD 中的信道化码是 OVFSF 码，扩频因子为 1、2、4、8 或 16。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1), .. (4/4), (8/1), .. (8/8), (16/1), .. (16/16),...)	

### 9.2.3.19a TDD Channelisation Code LCR

该参数指示了给定的物理信道的信道化码。1.28Mcps TDD 中的信道化码是 OVFSF 码，扩频因子为 1、

2、4、8 或 16。它可以采用 QPSK 和 8PSK 两种调制方式。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			9.2.3.19	
Modulation			ENUMERATED (QPSK, 8PSK,...)	Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD

### 9.2.3.19A TDD DPCH Offset

该参数描述了一组专用物理信道的相位信息。第一种范围用于没有起始偏移要求，而且 CCTrCH 中的每个 DPCH 偏移都将直接由 TDD DPCH Offset 决定。第二种范围用于有起始偏移要求时。TDD DPCH Offset 将映射到 CFN 而且 CCTrCH 中每个 DPCH 的偏移都由 TDD DPCH Offset *mod* Repetition period 算出。参见 3GPP TS 25.331。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Offset Type</i>				
> <i>Initial Offset</i>				
>>TDD DPCH Offset Value	M		INTEGER (0..255)	
> <i>No Initial Offset</i>				
>>TDD DPCH Offset Value	M		INTEGER (0..63)	

### 9.2.3.19B TDD DL Code Information

该参数提供了无线链路下行码信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information		1..< <i>maxnoof DPCHs</i> >		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code	M		9.2.3.19	

Range Bound	Explanation
<i>maxnoofDPCHs</i>	Maximum number of DPCHs in one CCTrCH

### 9.2.3.19C TDD DL Code Information LCR

该参数提供了 1.28Mcps TDD 无线链路下行码信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information LCR		1..< <i>maxnoofDPCHsLCR</i> >		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code LCR	M		9.2.3.19a	
> TDD DL DPCH Time Slot Format LCR	M		9.2.3.19D	

Range Bound	Explanation
<i>maxnoofDPCHsLCR</i>	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD

## 9.2.3.19D TDD DL DPCH Time Slot Format LCR

该参数指示了 1.28Mcps TDD 下行 DPCH 中用到的时隙格式。参见 3GPP TS 25.221。

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>Modulation</i>				
> <i>QPSK</i>				
>>QPSK TDD DL DPCH Time Slot Format LCR	M		INTEGER(0..24,...)	
> <i>8PSK</i>				
>>8PSK TDD DL DPCH Time Slot Format LCR	M		INTEGER(0..24,...)	

## 9.2.3.20 TDD Physical Channel Offset

该参数描述了一条物理信道分配的相位信息 (SFN mod Repetition Period = Offset), 参见 3GPP TS 25.331。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Physical Channel Offset			INTEGER (0..63)	

## 9.2.3.21 TDD TPC DL Step Size

该参数指示了下行功率调整的步长, 参见 3GPP TS 25.224。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Downlink Step Size			ENUMERATED (1, 2, 3,...)	Unit: dB

## 9.2.3.21a TDD TPC UL Step Size

该参数指示了上行功率调整的步长, 参见 3GPP TS 25.224。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Uplink Step Size			ENUMERATED(1, 2, 3,...)	Unit: dB

## 9.2.3.21A TDD UL Code Information

该参数提供了建立的上行码的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD UL Code Information		1..<maxnoof DPCHs>		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code	M		9.2.3.19	

Range Bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH

## 9.2.3.21B TDD UL Code Information LCR

该参数提供了 1.28Mcps TDD 建立上行码的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>TDD UL Code Information LCR</b>		<i>1..&lt;maxnoof DPCHsLCR&gt;</i>		
>DPCH ID	M		9.2.3.5	
>TDD Channelisation Code LCR	M		9.2.3.19a	
>TDD UL DPCH Time Slot Format LCR	M		9.2.3.21C	

Range Bound	Explanation
<i>maxnoofDPCHsLCR</i>	Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD

### 9.2.3.21C TDD UL DPCH Time Slot Format LCR

该参数指示了 1.28Mcps TDD 上行 DPCH 用到的时隙格式，参见 3GPP TS 25.221.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>CHOICE Modulation</b>				
> <i>QPSK</i>				
>>QPSK TDD UL DPCH Time Slot Format LCR	M		INTEGER(0..69,...)	
> <i>8PSK</i>				
>>8PSK TDD UL DPCH Time Slot Format LCR	M		INTEGER(0..24,...)	

### 9.2.3.22 TFCI Coding

该参数描述了 TFCI 比特编码的方法。默认情况下，1 TFCI 比特编码为 4bits，2 TFCI 比特编码为 8bits，3 ~ 5TFCI 比特编码为 16bits，6 ~ 10TFCI 比特编码为 32 bits。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>TFCI Coding</b>			ENUMERATED (4, 8, 16, 32,...)	

### 9.2.3.22a Timing Adjustment Value

该参数指示了一个帧中的时间调整。类型 1 用于 Node B 同步的初始阶段，类型 2 用于 Node B 的稳定阶段。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>CHOICE Phase</b>				According to mapping in 3GPP TS 25.123
> <i>Initial Phase</i>				
>>Timing Adjustment Value	M		INTEGER (0..1048575,...)	
> <i>Steady State Phase</i>				
>>Timing Adjustment Value	M		INTEGER (0..255,...)	

### 9.2.3.22A Timing Advance Applied

该参数指示了在特定的小区中是否需要报告 Rx Timing Deviation 测量。

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



## 9.2.3.23 Time Slot

该参数定义了一个无线帧中分配给物理信道的最小时间间隔。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot			INTEGER (0..14)	

## 9.2.3.24 Time Slot Direction

该参数指示了小区中的时隙是用作上行还是下行。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot Direction			ENUMERATED (UL, DL,...)	

## 9.2.3.24A Time Slot LCR

该参数是 1.28Mcps TDD 5ms 子帧中的业务时隙数。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot LCR			INTEGER (0..6)	

## 9.2.3.25 Time Slot Status

该参数指示了小区中的时隙是否被激活。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot Status			ENUMERATED (Active, Not Active,...)	

## 9.2.3.26 Transmission Diversity Applied

该参数指示了可以使用闭环发送分集的物理信道是否应用了发送分集。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Diversity Applied			BOOLEAN	True: Transmission Diversity shall be applied in this Cell. False: Transmission Diversity shall not be applied in this Cell

## 9.2.3.26A UL Timeslot ISCP

该参数是 Node B 上行时隙的干扰。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot ISCP			INTEGER (0..127)	According to mapping in 3GPP TS 25.123

## 9.2.3.26B UL PhysCH SF Variation

该参数指示了无线链路是否支持上行 SF 的变化。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL PhysCH SF Variation			ENUMERATED (SF_Variation_supported, SF_Variation_NOT_supported)	

## 9.2.3.26C UL Timeslot Information

该参数提供了上行 DPCH 分配的时隙信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot Information		1..<maxnoof ULts>		
>Time Slot	M		9.2.3.23	
>Midamble Shift And Burst Type	M		9.2.3.7	
>TFCI Presence	M		9.2.1.57	
>UL Code Information	M		TDD UL Code Information 9.2.3.21A	

Range Bound	Explanation
maxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.2.3.26D UL Time Slot ISCP Info

该参数提供了无线链路内每个时隙的上行干扰等级。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Time Slot ISCP Info		1..<maxnoof ULts>		
>Time Slot	M		9.2.3.23	
>UL Timeslot ISCP	M		9.2.3.26A	

Range Bound	Explanation
maxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.2.3.26E UL Timeslot Information LCR

该参数提供了 1.28Mcps TDD 上行 DPCH 的时隙信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot Information LCR		1..<maxnoof ULtsLCR>		
>Time Slot LCR	M		9.2.3.24A	
>Midamble Shift LCR	M		9.2.3.7A	
>TFCI Presence	M		9.2.1.57	
>UL Code Information	M		TDD UL Code Information LCR 9.2.3.21B	

Range Bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD

## 9.2.3.26F UL Time Slot ISCP Info LCR

该参数提供了 1.28Mcps TDD 无线链路内每个时隙的上行干扰信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Time Slot ISCP Info LCR		1..<maxnoof ULtsLCR>		
>Time Slot LCR	M		9.2.3.24A	
>UL Timeslot ISCP	M		9.2.3.26A	

Range Bound	Explanation
<i>maxnoofULtsLCR</i>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD

### 9.2.3.26G Uplink Synchronisation Frequency

该参数规定了上行传输时间调整的频率。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Synchronisation Frequency			INTEGER (1..8)	Unit: subframe; Step: 1

### 9.2.3.26H Uplink Synchronisation Step Size

该参数指示了上行传输时间调整的步长。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Synchronisation Step Size			INTEGER (1..8)	Unit: 1/8 chip; Step: 1

### 9.2.3.27 USCH ID

该参数惟一标识了 Node B 通信上下文中的 USCH。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
USCH ID			INTEGER (0..255)	

### 9.2.3.28 USCH Information

该参数提供了建立 USCHs 所需的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>USCH Information</b>		1..< <i>maxnoof</i> <i>USCHs</i> >		
>USCH ID	M		9.2.3.27	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped
>Transport Format Set	M		9.2.1.59	For USCH
>Allocation/Retention Priority	M		9.2.1.1A	

Range bound	Explanation
<i>maxnoofUSCHs</i>	Maximum number of USCHs for one UE

### 9.2.3.29 USCH Information Response

该参数提供了建立或修改 USCHs 的信息。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>USCH Information Response</b>		1..< <i>maxnoof</i> <i>USCHs</i> >		
>USCH ID	M		9.2.3.27	
>Binding ID	O		9.2.1.4	
>Transport Layer Address	O		9.2.1.63	

Range Bound	Explanation
<i>maxnoofUSCHs</i>	Maximum number of USCHs for one UE

### 9.2.3.30 SCTD Indicator

该参数指示了 Beacon Channels 是否采用 SCTD 天线分集。(参见 3GPP TS 25.221)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SCTD Indicator			ENUMERATED(ative,inactive)	

## 9.3 消息及信元的抽象语法

见附录 B。

## 9.4 消息传输语法

NBAP 协议用的是 Basic Packed Encoding Rules (BASIC-PER) 编码。

## 9.5 定时器

$T_{\text{Preempt}}$  定时器规定了 Node B 在无线链路建立或重配过程中抢占资源的最长等待时间。

## 10 未知、不可见以及错误协议数据的处理

请参见 3GPP TS 25.433 v4.8.0 第 10 章。

附录 A  
(资料性附录)  
实现方法示例

多载频小区中载频在 Node B 中逻辑资源的配置及上报方法。

对多载频小区在 Node B 中的处理资源 (即逻辑资源) 继续沿用当前 NBAP 协议中的定义, 即将一个多载频小区在 Node B 中的处理资源定义为一个本地小区 (Local Cell), 和本地小区标识 (Local Cell ID)。

对一个载频在 Node B 中的处理资源 (即逻辑资源) 定义为一个载频处理单元 (Frequency Process Module) 和载频处理单元标识 (Frequency Process Module ID), 参见 A.4.2。

每一个载频处理单元属于且只属于一个本地小区, 载频处理单元标识在其所属的本地小区中应该是惟一的, 但不同本地小区之间可以相同。

### A.1 小区建立

对于多频点小区, Frequency Process Module ID IE 将指示载频在 Node B 中的逻辑资源标识。修改后的小区建立请求消息参见 A.1.1。

#### A.1.1 CELL SETUP REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Local Cell ID	M		9.2.1.38		YES	reject
C-ID	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
UARFCN	M		9.2.1.65	Corresponds to 3GPP TS 25.105 For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency of Primary Frequency	YES	reject
Cell Parameter ID	M		9.2.3.4		YES	reject
Maximum Transmission Power	M		9.2.1.40		YES	reject
Transmission Diversity Applied	M		9.2.3.26	On DCHs	YES	reject
Sync Case	M		9.2.3.18		YES	reject
Synchronisation Configuration		<i>l</i>			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		-	
>N_OUTSYNC_IND	M		9.2.1.47B		-	
>T_RLFAILURE	M		9.2.1.56A		-	
DPCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PUSCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
PRACH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
Timing Advance Applied	M		9.2.3.22A		YES	reject
<b>SCH Information</b>		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>CHOICE Sync Case	M				YES	reject
>>Case 1					-	
>>>Time Slot	M		9.2.3.23		-	
>>Case 2					-	
>>>SCH Time Slot	M		9.2.3.17		-	
>SCH Power	M		DL Power 9.2.1.21		-	
>TSTD Indicator	M		9.2.1.64		-	
<b>PCCPCH Information</b>		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>TDD Physical Channel Offset	M		9.2.3.20		-	
>Repetition Period	M		9.2.3.16		-	
>Repetition Length	M		9.2.3.15		-	
>PCCPCH Power	M		9.2.3.9		-	
>SCTD Indicator	M		9.2.3.30		-	
<b>Time Slot Configuration</b>		0..15		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	
<b>Time Slot Configuration LCR</b>		0..7		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary Frequency	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	
<b>PCCPCH Information LCR</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>TDD Physical Channel Offset	M		9.2.3.20		-	
>Repetition Period	M		9.2.3.16		-	
>Repetition Length	M		9.2.3.15		-	
>PCCPCH Power	M		9.2.3.9		-	
>SCTD Indicator	M		9.2.3.30		-	
>TSTD Indicator	M		9.2.1.64		-	
<b>DwPCH Information</b>		0..1		Mandatory for 1.28Mchip TDD. Not Applicable to 3.84Mchip TDD	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>TSTD Indicator	M		9.2.1.64		-	
>DwPCH Power	M		9.2.3.5B		-	
Reference SFN Offset	O		9.2.3.14B		YES	ignore
<b>IPDL Parameter Information</b>		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>IPDL TDD Parameters	M		9.2.3.5D		-	
>IPDL Indicator	M		9.2.1.36F		-	
<b>UARFCN Information LCR</b>		0.. <maxFrequency in Cell-i>		Mandatory for 1.28Mcps TDD when using multiple frequencies	EACH	reject
>UARFCN	M		9.2.1.65	Corresponds to Nt 3GPP TS 25.105 This IE indicates the frequency of Secondary Frequency	-	
<b>&gt;Time Slot Configuration LCR</b>		1..7		This IE indicates the Time Slot configuration of Secondary Frequency	GLOBAL	reject
>>Time Slot LCR	M		9.2.3.24A		-	
>>Time Slot Status	M		9.2.3.25		-	
>>Time Slot Direction	M		9.2.3.24		-	
>Frequency Process Module ID	O		A.4.2	This IE indicates the Frequency Process Module ID of Secondary Frequency	-	
Frequency Process Module ID	O		A.4.2	For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Frequency Process Module ID of Primary Frequency	YES	reject

Range Bound	Explanation
<i>maxFrequencyinCell</i>	Maximum number of Frequency that can be defined in a Cell

## A.2 小区重配置

对于多频点小区, *Frequency Process Module ID* IE 将指示增加的辅载频在 Node B 中的逻辑资源标识。修改后的小区重配置请求消息参见 A.2.1。

### A.2.1 CELL RECONFIGURATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Synchronisation Configuration		0..1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		-	
>N_OUTSYNC_IND	M		9.2.1.47B		-	
>T_RLFailure	M		9.2.1.56A		-	
Timing Advance Applied	O		9.2.3.22A		YES	reject
SCH Information		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>SCH Power	M		DL Power 9.2.1.21		-	
PCCPCH Information		0..1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>PCCPCH Power	M		9.2.3.9		-	
Maximum Transmission Power	O		9.2.1.40		YES	reject
DPCH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PUSCH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
PRACH Constant Value	O		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B	YES	reject
Time Slot Configuration		0..15		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>Time Slot Configuration LCR</b>		0..7		Applicable to 1.28Mcps TDD only. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary Frequency	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		-	
>Time Slot Status	M		9.2.3.25		-	
>Time Slot Direction	M		9.2.3.24		-	
<b>DwPCH Information</b>		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		-	
>DwPCH Power	M		9.2.3.5B		-	
<b>IPDL Parameter Information</b>		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>IPDL TDD Parameters	O		9.2.3.5D		-	
>IPDL Indicator	M		9.2.1.36F		-	
<b>CHOICE UARFCN</b>	O			Applicable to 1.28Mcps TDD when using multiple frequencies	YES	reject
>Add					-	
<b>&gt;&gt;UARFCN Information To Add LCR</b>		1		Applicable to 1.28Mcps TDD when using multiple frequencies	-	
>>>UARFCN	M		9.2.1.65	Corresponds to Nt 3GPP TS 25.105 This IE indicates the frequency of Secondary Frequency to add	-	
<b>&gt;&gt;&gt;Time Slot Configuration LCR</b>		1..7		This IE indicates the Time Slot configuration of Secondary Frequency to add	-	
>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>Time Slot Status	M		9.2.3.25		-	
>>>>Time Slot Direction	M		9.2.3.24		-	
>>>>Frequency Process Module ID	O		A.4.2	This IE indicates the Frequency Process Module ID of Secondary Frequency to add	YES	reject
>Modify					-	
<b>&gt;&gt;UARFCN Information To Modify LCR</b>		1		Applicable to 1.28Mcps TDD when using multiple frequencies	-	
>>>UARFCN	M		9.2.1.65	Corresponds to Nt 3GPP TS 25.105 This IE indicates the frequency of Secondary Frequency to modify	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Time Slot Configuration LCR		1..7		This IE indicates the Time Slot reconfiguration of Secondary Frequency to modify	-	
>>>>Time Slot LCR	M		9.2.3.24A		-	
>>>>Time Slot Status	M		9.2.3.25		-	
>>>>Time Slot Direction	M		9.2.3.24		-	
>Delete					-	
>>UARFCN Information To Delete LCR		1		Applicable to 1.28Mcps TDD when using multiple frequencies	-	
>>>UARFCN	M		9.2.1.65	Corresponds to Nt 3GPP TS 25.105 This IE indicates the frequency of Secondary Frequency to delete	-	

### A.3 审核响应

对于多频点小区，Node B 应具有向 RNC 上报每个载频逻辑资源容量的状态信息的能力。

对于多频点小区，在审核响应消息中，每一个小区信息单元（Cell Information）中包含一个本地小区标识。在每一个本地小区信息单元（Local Cell Information）中包含本地小区标识（Local Cell ID），并增加一个载频处理单元标识（Frequency Process Module ID），用来指示该本地小区中的一个载频处理单元。这样，一个本地小区信息单元中的容量状态和消耗规则信息单元指示的是一个本地小区中的一个载频处理单元信息。

对于单频点小区，在审核响应消息中，每一个小区信息单元（Cell Information）中包含一个本地小区标识。在每一个本地小区信息单元（Local Cell Information）中包含本地小区标识（Local Cell ID），不包含载频处理单元标识（Frequency Process Module ID）。这样，一个本地小区信息单元中的容量状态和消耗规则信息单元指示的是一个本地小区的信息。

修改后的审核响应消息参见 A.3.1。

#### A.3.1 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
End Of Audit Sequence Indicator	M		9.2.1.29A		YES	ignore
Cell Information		0..<maxCellInNodeB>			EACH	ignore
>C-ID	M		9.2.1.9		-	
>Configuration Generation ID	M		9.2.1.16		-	
>Resource Operational State	M		9.2.1.52		-	
>Availability Status	M		9.2.1.2		-	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary CPICH Information		0..<maxSCP ICHCell>		Applicable to FDD only	EACH	ignore
>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>Secondary CCPCH Information		0..<maxSCC PCHCell>			EACH	ignore
>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>FACH Information		0..<maxFAC HCell>			EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>PRACH Information		0..<maxPRA CHCell>			EACH	ignore
>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>RACH Information		0..<maxRAC HCell>			EACH	ignore
>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>AICH Information		0..<maxPRA CHCell>		Applicable to FDD only	EACH	ignore
>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>PCPCH Information		0..<maxPCP CHCell>		Applicable to FDD only	EACH	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>CPCH Information		0..<maxCPC HCell>		Applicable to FDD only	EACH	ignore
>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>AP-AICH Information		0..<maxCPC HCell>		Applicable to FDD only	EACH	ignore
>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>CD/CA-ICH Information		0..<maxCPC HCell>		Applicable to FDD only	EACH	ignore
>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel Applicable to 3.84Mcps TDD only	YES	ignore
>FPACH Information		0..<maxFPA CHCell>		Applicable to 1.28Mcps TDD only	EACH	ignore
>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>UARFCN Information LCR		0..<maxFrequency inCell>		Applicable to 1.28Mcps TDD when using multiple frequencies.	EACH	ignore
>>UARFCN	M		9.2.1.65	Corresponds to Nt (3GPP TS 25.105)	-	
>>Resource Operational State	M		9.2.1.52		-	
>>Availability Status	M		9.2.1.2		-	
Communication Control Port Information		0..<max CCP in NodeB>			EACH	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>Communication Control Port ID	M		9.2.1.15		-	
>Resource Operational State	M		9.2.1.52		-	
>Availability Status	M		9.2.1.2		-	
<b>Local Cell Information</b>		<i>0..&lt;maxLocalCellinNode B&gt;</i>			EACH	ignore
>Local Cell ID	M		9.2.1.38		-	
>DL or Global Capacity Credit	M		9.2.1.20B		-	
>UL Capacity Credit	O		9.2.1.65A		-	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
>Maximum DL Power Capability	O		9.2.1.39		-	
>Minimum Spreading Factor	O		9.2.1.47		-	
>Minimum DL Power Capability	O		9.2.1.46A		-	
>Local Cell Group ID	O		9.2.1.37A		-	
>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>Frequency Process Module ID	O		A.4.2	For 1.28Mcps TDD, if multiple frequency process modules exist within the local cell indicated by Local Cell ID, this IE indicates a Frequency Process Module ID		
<b>Local Cell Group Information</b>		<i>0..&lt;maxLocalCellinNode B&gt;</i>			EACH	ignore
>Local Cell Group ID	M		9.2.1.37A		-	
>DL or Global Capacity Credit	M		9.2.1.20B		-	
>UL Capacity Credit	O		9.2.1.65A		-	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxCellinNodeB</i>	Maximum number of Cells that can be configured in Node B
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<i>maxCPCHCell</i>	Maximum number of CPCHs that can be defined in a Cell
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B for non-multiple frequency or maximum number of Frequency Process Modules that can exist in the Node B for multiple frequency
<i>maxPCPCHCell</i>	Maximum number of PCPCHs that can be defined in a Cell
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICHs that can be defined in a Cell
<i>maxSCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHs that can be defined in a Cell
<i>maxRACHCell</i>	Maximum number of RACHs that can be defined in a Cell
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell
<i>maxFrequencyinCell</i>	Maximum number of Frequency that can be defined in a Cell

#### A.4 资源状态指示

对于多频点小区，Node B 需要具有向 RNC 指示每个载频逻辑资源容量的状态信息的能力。

对于多频点小区，在资源状态指示消息中，每一个本地小区信息单元（Local Cell Information）中包含本地小区标识（Local Cell ID），并增加一个载频处理单元标识（Frequency Process Module ID），用来指示该本地小区中的一个载频处理单元。这样，一个本地小区信息单元中的容量状态和消耗规则信息单元指示的是一个本地小区中的一个载频处理单元的信息。

对于单频点小区，在资源状态指示消息中，每一个本地小区信息单元（Local Cell Information）中包含本地小区标识（Local Cell ID），不包含载频处理单元标识（Frequency Process Module ID）。这样，一个本地小区信息单元中的容量状态和消耗规则信息单元指示的是一个本地小区的信息。

修改后的资源状态指示消息参见 A.4.1。

##### A.4.1 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
CHOICE Indication Type	M				YES	ignore
>No Failure					-	
>>Local Cell Information		1..<max LocalCellin NodeB>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		-	
>>>Add/Delete Indicator	M		9.2.1.1		-	
>>>DL or Global Capacity Credit	C-add		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		-	
>>>Maximum DL Power Capability	C-add		9.2.1.39		-	
>>>Minimum Spreading Factor	C-add		9.2.1.47		-	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		-	
>>>Local Cell Group ID	O		9.2.1.37A		-	
>>>Reference Clock Availability	C-add		9.2.3.14A	TDD only	YES	ignore
>>>Frequency Process Module ID	O		A.4.2	For 1.28Mcps TDD, if multiple frequency process modules exist within the local cell indicated by Local Cell ID, this IE indicates a Frequency Process Module ID		
>>Local Cell Group Information		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		-	
>>>DL or Global Capacity Credit	M		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
>Service Impacting					-	
>>Local Cell Information		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	Ignore
>>>Local Cell ID	M		9.2.1.38		-	
>>>DL or Global Capacity Credit	O		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		-	
>>>Maximum DL Power Capability	O		9.2.1.39		-	
>>>Minimum Spreading Factor	O		9.2.1.47		-	
>>>Minimum DL Power Capability	O		9.2.1.46A		-	
>>>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	Ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Frequency Process Module ID	O		A.4.2	For 1.28Mcps TDD, if multiple frequency process modules exist within the local cell indicated by Local Cell ID, this IE indicates a Frequency Process Module ID		
>>Local Cell Group Information		0..<maxLocalCellinNodeB>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		-	
>>>DL or Global Capacity Credit	O		9.2.1.20B		-	
>>>UL Capacity Credit	O		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		-	
>>Communication Control Port Information		0..<maxCCPinNodeB>			EACH	ignore
>>>Communication Control Port ID	M		9.2.1.15		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
>>Cell Information		0..<maxCellinNodeB>			EACH	ignore
>>>C-ID	M		9.2.1.9		-	
>>>Resource Operational State	O		9.2.1.52		-	
>>>Availability Status	O		9.2.1.2		-	
>>>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Secondary CPICH Information		0..<maxSCP ICHCell>		FDD only	EACH	ignore
>>>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>>Secondary CCPCH Information		0..<maxSCC PCHCell>			EACH	ignore
>>>>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>>>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>>>FACH Information		0..<maxFAC HCell>			EACH	ignore
>>>>>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>>>>PRACH Information		0..<maxPRA CHCell>			EACH	ignore
>>>>>>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>>>>RACH Information		0..<maxPRA CHCell>			EACH	ignore
>>>>>>>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>>>>>>AICH Information		0..<maxPRA CHCell>		FDD only	EACH	ignore
>>>>>>>>>AKCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>>>>>>PCPCH Information		0..<maxPCP CHCell>		FDD only	EACH	ignore
>>>>>>>>>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>>>>>>>>>CPCH Information		0..<maxCPC HCell>		FDD only	EACH	ignore
>>>>>>>>>>>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>AP-AICH Information		0..<maxCP CHCell>		FDD only	EACH	ignore
>>>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>CD/CA-ICH Information		0..<maxCP CHCell>		FDD only	EACH	ignore
>>>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 3.84Mcps TDD only	YES	ignore
>>>FPACH Information		0..<maxFP ACHCell>		Applicable to 1.28Mcps TDD only	EACH	ignore
>>>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>>>UARFCN Information LCR		0..<max Frequencyin nCell>		Applicable to 1.28Mcps TDD when using multiple frequencies	EACH	ignore
>>>>UARFCN	M		9.2.1.65	Corresponds to Nt (3GPP TS 25.105)	-	
>>>>Resource Operational State	M		9.2.1.52		-	
>>>>Availability Status Cause	M		9.2.1.2		-	
Cause	O		9.2.1.6		YES	ignore

Condition	Explanation
add	The IE shall be present if the Add/Delete Indicator IE is set to "Add"

Range Bound	Explanation
maxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B for non-multiple frequency or maximum number of Frequency Process Modules that can exist in the Node B for multiple frequency
maxCellinNodeB	Maximum number of C-IDs that can be configured in the Node B
maxCPCHCell	Maximum number of CPCHs that can be defined in a Cell
maxSCPCHCell	Maximum number of Secondary CPCHs that can be defined in a Cell
maxSCCPCHCell	Maximum number of Secondary CCPCHs that can be defined in a Cell
maxFACHCell	Maximum number of FACHs that can be defined in a Cell
maxPCPCHCell	Maximum number of PCPCHs that can be defined in a Cell
maxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
maxCCPinNodeB	Maximum number of Communication Control Ports that can exist in the Node B
maxFPACHCell	Maximum number of FPACHs that can be defined in a Cell
maxFrequencyinCell	Maximum number of Frequency that can be defined in a Cell

**A.4.2 Frequency Process Module ID**

Frequency Process Module ID 表示 Node B 中可用于频率配置的那些资源。

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frequency Process Module Id			INTEGER (0..268435455)	

附 录 B  
(规范性附录)  
消息及信元的抽象语法 (ASN.1)

```

-- *****
--
-- Elementary Procedure definitions
--
-- *****

NBAP-PDU-Descriptions {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
ums-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Descriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    ProcedureID,
    MessageDiscriminator,
    TransactionID
FROM NBAP-CommonDataTypes

    CommonTransportChannelSetupRequestFDD,
    CommonTransportChannelSetupRequestTDD,
    CommonTransportChannelSetupResponse,
    CommonTransportChannelSetupFailure,
    CommonTransportChannelReconfigurationRequestFDD,
    CommonTransportChannelReconfigurationRequestTDD,
    CommonTransportChannelReconfigurationResponse,
    CommonTransportChannelReconfigurationFailure,
    CommonTransportChannelDeletionRequest,
    CommonTransportChannelDeletionResponse,
    BlockResourceRequest,
    BlockResourceResponse,
    BlockResourceFailure,
    UnblockResourceIndication,
    AuditFailure,
    AuditRequiredIndication,
    AuditRequest,
    AuditResponse,
    CommonMeasurementInitiationRequest,
    CommonMeasurementInitiationResponse,
    CommonMeasurementInitiationFailure,
    CommonMeasurementReport,
    CommonMeasurementTerminationRequest,
    CommonMeasurementFailureIndication,
    CellSetupRequestFDD,
    CellSetupRequestTDD,
    CellSetupResponse,
    CellSetupFailure,
    CellReconfigurationRequestFDD,
    CellReconfigurationRequestTDD,
    CellReconfigurationResponse,
    CellReconfigurationFailure,
    CellDeletionRequest,
    CellDeletionResponse,
    InformationExchangeInitiationRequest,
    InformationExchangeInitiationResponse,
    InformationExchangeInitiationFailure,
    InformationReport,
    InformationExchangeTerminationRequest,
    InformationExchangeFailureIndication,
    ResourceStatusIndication,

```

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SystemInformationUpdateRequest,  
SystemInformationUpdateResponse,  
SystemInformationUpdateFailure,  
ResetRequest,  
ResetResponse,  
RadioLinkPreemptionRequiredIndication,  
RadioLinkSetupRequestFDD,  
RadioLinkSetupRequestTDD,  
RadioLinkSetupResponseFDD,  
RadioLinkSetupResponseTDD,  
RadioLinkSetupFailureFDD,  
RadioLinkSetupFailureTDD,  
RadioLinkAdditionRequestFDD,  
RadioLinkAdditionRequestTDD,  
RadioLinkAdditionResponseFDD,  
RadioLinkAdditionResponseTDD,  
RadioLinkAdditionFailureFDD,  
RadioLinkAdditionFailureTDD,  
RadioLinkReconfigurationPrepareFDD,  
RadioLinkReconfigurationPrepareTDD,  
RadioLinkReconfigurationReady,  
RadioLinkReconfigurationFailure,  
RadioLinkReconfigurationCommit,  
RadioLinkReconfigurationCancel,  
RadioLinkReconfigurationRequestFDD,  
RadioLinkReconfigurationRequestTDD,  
RadioLinkReconfigurationResponse,  
RadioLinkDeletionRequest,  
RadioLinkDeletionResponse,  
DL-PowerControlRequest,  
DL-PowerTimeslotControlRequest,  
DedicatedMeasurementInitiationRequest,  
DedicatedMeasurementInitiationResponse,  
DedicatedMeasurementInitiationFailure,  
DedicatedMeasurementReport,  
DedicatedMeasurementTerminationRequest,  
DedicatedMeasurementFailureIndication,  
RadioLinkFailureIndication,  
RadioLinkRestoreIndication,  
CompressedModeCommand,  
ErrorIndication,  
PrivateMessage,  
PhysicalSharedChannelReconfigurationRequestTDD,  
PhysicalSharedChannelReconfigurationResponseTDD,  
PhysicalSharedChannelReconfigurationFailureTDD,  
CellSynchronisationInitiationRequestTDD,  
CellSynchronisationInitiationResponseTDD,  
CellSynchronisationInitiationFailureTDD,  
CellSynchronisationReconfigurationRequestTDD,  
CellSynchronisationReconfigurationResponseTDD,  
CellSynchronisationReconfigurationFailureTDD,  
CellSynchronisationAdjustmentRequestTDD,  
CellSynchronisationAdjustmentResponseTDD,  
CellSynchronisationAdjustmentFailureTDD,  
CellSynchronisationReportTDD,  
CellSynchronisationTerminationRequestTDD,  
CellSynchronisationFailureIndicationTDD

FROM NBAP-PDU-Contents

id-audit,  
id-auditRequired,  
id-blockResource,  
id-cellDeletion,  
id-cellReconfiguration,  
id-cellSetup,  
id-cellSynchronisationInitiation,  
id-cellSynchronisationReconfiguration,  
id-cellSynchronisationReporting,  
id-cellSynchronisationTermination,  
id-cellSynchronisationFailure,  
id-commonMeasurementFailure,  
id-commonMeasurementInitiation,  
id-commonMeasurementReport,  
id-commonMeasurementTermination,  
id-commonTransportChannelDelete,

```

id-commonTransportChannelReconfigure,
id-commonTransportChannelSetup,
id-compressedModeCommand,
id-dedicatedMeasurementFailure,
id-dedicatedMeasurementInitiation,
id-dedicatedMeasurementReport,
id-dedicatedMeasurementTermination,
id-downlinkPowerControl,
id-downlinkPowerTimeslotControl,
id-errorIndicationForDedicated,
id-errorIndicationForCommon,
id-informationExchangeFailure,
id-informationExchangeInitiation,
id-informationReporting,
id-informationExchangeTermination,
id-physicalSharedChannelReconfiguration,
id-privateMessageForDedicated,
id-privateMessageForCommon,
id-radioLinkAddition,
id-radioLinkDeletion,
id-radioLinkFailure,
id-radioLinkPreemption,
id-radioLinkRestoration,
id-radioLinkSetup,
id-reset,
id-resourceStatusIndication,
id-cellSynchronisationAdjustment,
id-synchronisedRadioLinkReconfigurationCancellation,
id-synchronisedRadioLinkReconfigurationCommit,
id-synchronisedRadioLinkReconfigurationPreparation,
id-systemInformationUpdate,
id-unblockResource,
id-unSynchronisedRadioLinkReconfiguration
FROM NBAP-Constants;

-- *****
--
-- Interface Elementary Procedure Class
--
-- *****

NBAP-ELEMENTARY-PROCEDURE ::= CLASS {
    &InitiatingMessage           ,
    &SuccessfulOutcome           OPTIONAL,
    &UnsuccessfulOutcome        OPTIONAL,
    &Outcome                     OPTIONAL,
    &messageDiscriminator       MessageDiscriminator,
    &procedureID                 ProcedureID    UNIQUE,
    &criticality                 Criticality     DEFAULT ignore
}

WITH SYNTAX {
    INITIATING MESSAGE           &InitiatingMessage
    [SUCCESSFUL OUTCOME          &SuccessfulOutcome]
    [UNSUCCESSFUL OUTCOME       &UnsuccessfulOutcome]
    [OUTCOME                     &Outcome]
    MESSAGE DISCRIMINATOR       &messageDiscriminator
    PROCEDURE ID                 &procedureID
    [CRITICALITY                 &criticality]
}

-- *****
--
-- Interface PDU Definition
--
-- *****

NBAP-PDU ::= CHOICE {
    initiatingMessage           InitiatingMessage,
    succesfulOutcome            SuccessfulOutcome,
    unsuccessfullOutcome        UnsuccessfulOutcome,
    outcome                     Outcome,
    ...
}

```

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```
InitiatingMessage ::= SEQUENCE {
    procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID  ((NBAP-ELEMENTARY-PROCEDURES}),
    criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality  ((NBAP-ELEMENTARY-
        PROCEDURES){@procedureID}),
    messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    transactionID       TransactionID,
    value               NBAP-ELEMENTARY-PROCEDURE.&InitiatingMessage((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID})
}
```

```
SuccessfulOutcome ::= SEQUENCE {
    procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID  ((NBAP-ELEMENTARY-PROCEDURES}),
    criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality  ((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    transactionID       TransactionID,
    value               NBAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID})
}
```

```
UnsuccessfulOutcome ::= SEQUENCE {
    procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID  ((NBAP-ELEMENTARY-PROCEDURES}),
    criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality  ((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    transactionID       TransactionID,
    value               NBAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID})
}
```

```
Outcome ::= SEQUENCE {
    procedureID          NBAP-ELEMENTARY-PROCEDURE.&procedureID  ((NBAP-ELEMENTARY-PROCEDURES}),
    criticality          NBAP-ELEMENTARY-PROCEDURE.&criticality  ((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID}),
    transactionID       TransactionID,
    value               NBAP-ELEMENTARY-PROCEDURE.&Outcome  ((NBAP-ELEMENTARY-
        ROCEDURES){@procedureID})
}
```

```
-- *****
--
-- Interface Elementary Procedure List
--
-- *****
```

```
NBAP-ELEMENTARY-PROCEDURES NBAP-ELEMENTARY-PROCEDURE ::= (
    NBAP-ELEMENTARY-PROCEDURES-CLASS-1 |
    NBAP-ELEMENTARY-PROCEDURES-CLASS-2
    ...
)
```

```
NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
    cellSetupFDD |
    cellSetupTDD |
    cellReconfigurationFDD |
    cellReconfigurationTDD |
    cellDeletion |
    commonTransportChannelSetupFDD |
    commonTransportChannelSetupTDD |
    commonTransportChannelReconfigureFDD |
    commonTransportChannelReconfigureTDD |
    commonTransportChannelDelete |
    audit |
    blockResource |
    radioLinkSetupFDD |
    radioLinkSetupTDD |
    systemInformationUpdate |
    commonMeasurementInitiation |
    radioLinkAdditionFDD |
    radioLinkAdditionTDD |
}
```

```

    radioLinkDeletion
    reset
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unSynchronisedRadioLinkReconfigurationFDD
    unSynchronisedRadioLinkReconfigurationTDD
    dedicatedMeasurementInitiation
    physicalSharedChannelReconfiguration
    ....
    informationExchangeInitiation
    cellSynchronisationInitiationTDD
    cellSynchronisationReconfigurationTDD
    cellSynchronisationAdjustmentTDD
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication
    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
    radioLinkFailure
    radioLinkPreemption
    radioLinkRestoration
    dedicatedMeasurementReport
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
    downlinkPowerControlFDD
    downlinkPowerTimeslotControl
    compressedModeCommand
    unblockResource
    errorIndicationForDedicated
    errorIndicationForCommon
    privateMessageForDedicated
    privateMessageForCommon
    ....
    informationReporting
    informationExchangeTermination
    informationExchangeFailure
    cellSynchronisationReportingTDD
    cellSynchronisationTerminationTDD
    cellSynchronisationFailureTDD
}

-- *****
--
-- Interface Elementary Procedures
--
-- *****

-- Class 1

-- *** CellSetup (FDD) ***
cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellSetupRequestFDD
    SUCCESSFUL OUTCOME      CellSetupResponse
    UNSUCCESSFUL OUTCOME    CellSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellSetup, ddMode fdd }
    CRITICALITY             reject
}

-- *** CellSetup (TDD) ***
cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellSetupRequestTDD
    SUCCESSFUL OUTCOME      CellSetupResponse
    UNSUCCESSFUL OUTCOME    CellSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellSetup, ddMode tdd }
    CRITICALITY             reject
}

-- *** CellReconfiguration(FDD) ***

```

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```

cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellReconfigurationRequestFDD
    SUCCESSFUL OUTCOME      CellReconfigurationResponse
    UNSUCCESSFUL OUTCOME    CellReconfigurationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellReconfiguration, ddMode fdd }
    CRITICALITY             reject
}

-- *** CellReconfiguration(TDD) ***
cellReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellReconfigurationRequestTDD
    SUCCESSFUL OUTCOME      CellReconfigurationResponse
    UNSUCCESSFUL OUTCOME    CellReconfigurationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellReconfiguration, ddMode tdd }
    CRITICALITY             reject
}

-- *** CellDeletion ***
cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CellDeletionRequest
    SUCCESSFUL OUTCOME      CellDeletionResponse
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-cellDeletion, ddMode common }
    CRITICALITY             reject
}

-- *** CommonTransportChannelSetup (FDD) ***
commonTransportChannelSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelSetupRequestFDD
    SUCCESSFUL OUTCOME      CommonTransportChannelSetupResponse
    UNSUCCESSFUL OUTCOME    CommonTransportChannelSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelSetup, ddMode fdd }
    CRITICALITY             reject
}

-- *** CommonTransportChannelSetup (TDD) ***
commonTransportChannelSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelSetupRequestTDD
    SUCCESSFUL OUTCOME      CommonTransportChannelSetupResponse
    UNSUCCESSFUL OUTCOME    CommonTransportChannelSetupFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelSetup, ddMode tdd }
    CRITICALITY             reject
}

-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME      CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME    CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
    CRITICALITY             reject
}

-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME      CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME    CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelReconfigure, ddMode tdd }
    CRITICALITY             reject
}

-- *** CommonTransportChannelDelete ***
commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonTransportChannelDeletionRequest
    SUCCESSFUL OUTCOME      CommonTransportChannelDeletionResponse
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonTransportChannelDelete, ddMode common }
    CRITICALITY             reject
}

```



```

}

-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      AuditRequest
    SUCCESSFUL OUTCOME      AuditResponse
    UNSUCCESSFUL OUTCOME    AuditFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-audit, ddMode common }
    CRITICALITY             reject
}

-- *** BlockResourceRequest ***
blockResource NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      BlockResourceRequest
    SUCCESSFUL OUTCOME      BlockResourceResponse
    UNSUCCESSFUL OUTCOME    BlockResourceFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-blockResource, ddMode common }
    CRITICALITY             reject
}

-- *** RadioLinkSetup (FDD) ***
radioLinkSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      RadioLinkSetupRequestFDD
    SUCCESSFUL OUTCOME      RadioLinkSetupResponseFDD
    UNSUCCESSFUL OUTCOME    RadioLinkSetupFailureFDD
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-radioLinkSetup, ddMode fdd }
    CRITICALITY             reject
}

-- *** RadioLinkSetup (TDD) ***
radioLinkSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      RadioLinkSetupRequestTDD
    SUCCESSFUL OUTCOME      RadioLinkSetupResponseTDD
    UNSUCCESSFUL OUTCOME    RadioLinkSetupFailureTDD
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-radioLinkSetup, ddMode tdd }
    CRITICALITY             reject
}

-- *** SystemInformationUpdate ***
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      SystemInformationUpdateRequest
    SUCCESSFUL OUTCOME      SystemInformationUpdateResponse
    UNSUCCESSFUL OUTCOME    SystemInformationUpdateFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-systemInformationUpdate, ddMode common }
    CRITICALITY             reject
}

-- *** Reset ***
reset NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      ResetRequest
    SUCCESSFUL OUTCOME      ResetResponse
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-reset, ddMode common }
    CRITICALITY             reject
}

-- *** CommonMeasurementInitiation ***
commonMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE      CommonMeasurementInitiationRequest
    SUCCESSFUL OUTCOME      CommonMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME    CommonMeasurementInitiationFailure
    MESSAGE DISCRIMINATOR   common
    PROCEDURE ID            { procedureCode id-commonMeasurementInitiation, ddMode common }
    CRITICALITY             reject
}

-- *** RadioLinkAddition (FDD) ***
radioLinkAdditionFDD NBAP-ELEMENTARY-PROCEDURE ::= {

```

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```

INITIATING MESSAGE      RadioLinkAdditionRequestFDD
SUCCESSFUL OUTCOME      RadioLinkAdditionResponseFDD
UNSUCCESSFUL OUTCOME    RadioLinkAdditionFailureFDD
MESSAGE DISCRIMINATOR   dedicated
PROCEDURE ID            { procedureCode id-radioLinkAddition, ddMode fdd }
CRITICALITY             reject
}

-- *** RadioLinkAddition (TDD) ***
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkAdditionRequestTDD
  SUCCESSFUL OUTCOME      RadioLinkAdditionResponseTDD
  UNSUCCESSFUL OUTCOME    RadioLinkAdditionFailureTDD
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkAddition, ddMode tdd }
  CRITICALITY             reject
}

-- *** RadioLinkDeletion ***
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkDeletionRequest
  SUCCESSFUL OUTCOME      RadioLinkDeletionResponse
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkDeletion, ddMode common }
  CRITICALITY             reject
}

-- *** SynchronisedRadioLinkReconfigurationPreparation (FDD) ***
synchronisedRadioLinkReconfigurationPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationPrepareFDD
  SUCCESSFUL OUTCOME      RadioLinkReconfigurationReady
  UNSUCCESSFUL OUTCOME    RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation,
  ddMode fdd }
  CRITICALITY             reject
}

-- *** SynchronisedRadioLinkReconfigurationPreparation (TDD) ***
synchronisedRadioLinkReconfigurationPreparationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationPrepareTDD
  SUCCESSFUL OUTCOME      RadioLinkReconfigurationReady
  UNSUCCESSFUL OUTCOME    RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation,
  ddMode tdd }
  CRITICALITY             reject
}

-- *** UnSynchronisedRadioLinkReconfiguration (FDD) ***
unSynchronisedRadioLinkReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationRequestFDD
  SUCCESSFUL OUTCOME      RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME    RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
  CRITICALITY             reject
}

-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***
unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationRequestTDD
  SUCCESSFUL OUTCOME      RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME    RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
  CRITICALITY             reject
}

-- *** DedicatedMeasurementInitiation ***
dedicatedMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DedicatedMeasurementInitiationRequest
  SUCCESSFUL OUTCOME      DedicatedMeasurementInitiationResponse
  UNSUCCESSFUL OUTCOME    DedicatedMeasurementInitiationFailure
  MESSAGE DISCRIMINATOR   dedicated

```

```

PROCEDURE ID      { procedureCode id-dedicatedMeasurementInitiation, ddMode common }
CRITICALITY      reject
}

-- *** PhysicalSharedChannelReconfiguration (TDD only) ***
physicalSharedChannelReconfiguration NBAP-ELEMENTARY-PROCEDURE ::= (
  INITIATING MESSAGE      PhysicalSharedChannelReconfigurationRequestTDD
  SUCCESSFUL OUTCOME      PhysicalSharedChannelReconfigurationResponseTDD
  UNSUCCESSFUL OUTCOME    PhysicalSharedChannelReconfigurationFailureTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }
  CRITICALITY             reject
)

--*** InformationExchangeInitiation ***
informationExchangeInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      InformationExchangeInitiationRequest
  SUCCESSFUL OUTCOME      InformationExchangeInitiationResponse
  UNSUCCESSFUL OUTCOME    InformationExchangeInitiationFailure
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-informationExchangeInitiation, ddMode common }
  CRITICALITY             reject
}

-- *** CellSynchronisationInitiation (TDD only) ***
cellSynchronisationInitiationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CellSynchronisationInitiationRequestTDD
  SUCCESSFUL OUTCOME      CellSynchronisationInitiationResponseTDD
  UNSUCCESSFUL OUTCOME    CellSynchronisationInitiationFailureTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-cellSynchronisationInitiation, ddMode tdd }
  CRITICALITY             reject
}

-- *** CellSynchronisationReconfiguration (TDD only) ***
cellSynchronisationReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CellSynchronisationReconfigurationRequestTDD
  SUCCESSFUL OUTCOME      CellSynchronisationReconfigurationResponseTDD
  UNSUCCESSFUL OUTCOME    CellSynchronisationReconfigurationFailureTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-cellSynchronisationReconfiguration, ddMode tdd }
  CRITICALITY             reject
}

-- *** CellSynchronisationAdjustment (TDD only) ***
cellSynchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CellSynchronisationAdjustmentRequestTDD
  SUCCESSFUL OUTCOME      CellSynchronisationAdjustmentResponseTDD
  UNSUCCESSFUL OUTCOME    CellSynchronisationAdjustmentFailureTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-cellSynchronisationAdjustment, ddMode tdd }
  CRITICALITY             reject
}

-- Class 2

-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      ResourceStatusIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-resourceStatusIndication, ddMode common }
  CRITICALITY             ignore
}

-- *** AuditRequired ***
auditRequired NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      AuditRequiredIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-auditRequired, ddMode common }
  CRITICALITY             ignore
}

-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonMeasurementReport

```

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```

MESSAGE DISCRIMINATOR    common
PROCEDURE ID             { procedureCode id-commonMeasurementReport, ddMode common }
CRITICALITY              ignore
}

-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonMeasurementTerminationRequest
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonMeasurementTermination, ddMode common }
  CRITICALITY             ignore
}

-- *** CommonMeasurementFailure ***
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CommonMeasurementFailureIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-commonMeasurementFailure, ddMode common }
  CRITICALITY             ignore
}

-- *** SynchronisedRadioLinkReconfigurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationCommit
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode
  common }
  CRITICALITY             ignore
}

-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkReconfigurationCancel
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-synchronisedRadioLinkReconfigurationCancellation,
  ddMode common }
  CRITICALITY             ignore
}

-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkFailureIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkFailure, ddMode common }
  CRITICALITY             ignore
}

-- *** RadioLinkPreemption ***
radioLinkPreemption NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkPreemptionRequiredIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkPreemption, ddMode common }
  CRITICALITY             ignore
}

-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      RadioLinkRestoreIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-radioLinkRestoration, ddMode common }
  CRITICALITY             ignore
}

-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DedicatedMeasurementReport
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-dedicatedMeasurementReport, ddMode common }
  CRITICALITY             ignore
}

-- *** DedicatedMeasurementTermination ***
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DedicatedMeasurementTerminationRequest
  MESSAGE DISCRIMINATOR   dedicated

```

```

PROCEDURE ID      ( procedureCode id-dedicatedMeasurementTermination, ddMode common )
CRITICALITY      ignore
}

-- *** DedicatedMeasurementFailure ***
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DedicatedMeasurementFailureIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-dedicatedMeasurementFailure, ddMode common }
  CRITICALITY             ignore
}

-- *** DLPowerControl (FDD only) ***
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DL-PowerControlRequest
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-downlinkPowerControl, ddMode fdd }
  CRITICALITY             ignore
}

-- *** DLPowerTimeslotControl (TDD only) ***
downlinkPowerTimeslotControl NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      DL-PowerTimeslotControlRequest
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
  CRITICALITY             ignore
}

-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CompressedModeCommand
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-compressedModeCommand, ddMode fdd }
  CRITICALITY             ignore
}

-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      UnblockResourceIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-unblockResource, ddMode common }
  CRITICALITY             ignore
}

-- *** ErrorIndication for Dedicated procedures ***
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      ErrorIndication
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID            { procedureCode id-errorIndicationForDedicated, ddMode common }
  CRITICALITY             ignore
}

-- *** ErrorIndication for Common procedures ***
errorIndicationForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      ErrorIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-errorIndicationForCommon, ddMode common }
  CRITICALITY             ignore
}

-- *** CellSynchronisationReporting (TDD only) ***
cellSynchronisationReportingTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CellSynchronisationReportTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-cellSynchronisationReporting, ddMode tdd }
  CRITICALITY             ignore
}

-- *** CellSynchronisationTermination (TDD only) ***
cellSynchronisationTerminationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CellSynchronisationTerminationRequestTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID            { procedureCode id-cellSynchronisationTermination, ddMode tdd }
  CRITICALITY             ignore
}

```

```

-- *** CellSynchronisationFailure (TDD only) ***
cellSynchronisationFailureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      CellSynchronisationFailureIndicationTDD
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID             { procedureCode id-cellSynchronisationFailure, ddMode tdd }
  CRITICALITY              ignore
}

-- *** PrivateMessage for Dedicated procedures ***
privateMessageForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      PrivateMessage
  MESSAGE DISCRIMINATOR   dedicated
  PROCEDURE ID             { procedureCode id-privateMessageForDedicated, ddMode common }
  CRITICALITY              ignore
}

-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      PrivateMessage
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID             { procedureCode id-privateMessageForCommon, ddMode common }
  CRITICALITY              ignore
}

-- *** InformationReporting ***
informationReporting NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      InformationReport
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID             { procedureCode id-informationReporting, ddMode common }
  CRITICALITY              ignore
}

-- *** InformationExchangeTermination ***
informationExchangeTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      InformationExchangeTerminationRequest
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID             { procedureCode id-informationExchangeTermination, ddMode common }
  CRITICALITY              ignore
}

-- *** InformationExchangeFailure ***
informationExchangeFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE      InformationExchangeFailureIndication
  MESSAGE DISCRIMINATOR   common
  PROCEDURE ID             { procedureCode id-informationExchangeFailure, ddMode common }
  CRITICALITY              ignore
}
}

END

```

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS

```

Active-Pattern-Sequence-Information,  
 AddorDeleteIndicator,  
 AICH-Power,  
 AICH-TransmissionTiming,  
 AllocationRetentionPriority,  
 APPreambleSignature,  
 APSubChannelNumber,  
 AvailabilityStatus,  
 BCCH-ModificationTime,  
 BindingID,  
 BlockingPriorityIndicator,  
 SCTD-Indicator,  
 Cause,  
 CCTrCH-ID,  
 CDSubChannelNumbers,  
 CellParameterID,  
 CellSyncBurstCode,  
 CellSyncBurstCodeShift,  
 CellSyncBurstRepetitionPeriod,  
 CellSyncBurstSIR,  
 CellSyncBurstTiming,  
 CellSyncBurstTimingThreshold,  
 CFN,  
 Channel-Assignment-Indication,  
 ChipOffset,  
 C-ID,  
 Closedlooptimingadjustmentmode,  
 CommonChannelsCapacityConsumptionLaw,  
 Compressed-Mode-Deactivation-Flag,  
 CommonMeasurementAccuracy,  
 CommonMeasurementType,  
 CommonMeasurementValue,  
 CommonMeasurementValueInformation,  
 CommonPhysicalChannelID,  
 Common-PhysicalChannel-Status-Information,  
 Common-TransportChannel-Status-Information,  
 CommonTransportChannelID,  
 CommonTransportChannel-InformationResponse,  
 CommunicationControlPortID,  
 ConfigurationGenerationID,  
 ConstantValue,  
 CriticalityDiagnostics,  
 CPCH-Allowed-Total-Rate,  
 CPCHScramblingCodeNumber,  
 CPCH-UL-DPCCH-SlotFormat,  
 CRNC-CommunicationContextID,  
 CSBMeasurementID,  
 CSBTransmissionID,  
 DCH-FDD-Information,  
 DCH-InformationResponse,  
 DCH-ID,  
 FDD-DCHs-to-Modify,  
 TDD-DCHs-to-Modify,  
 DCH-TDD-Information,  
 DedicatedChannelsCapacityConsumptionLaw,  
 DedicatedMeasurementType,  
 DedicatedMeasurementValue,  
 DedicatedMeasurementValueInformation,  
 DiversityControlField,  
 DiversityMode,  
 DL-DPCH-SlotFormat,  
 DL-or-Global-CapacityCredit,  
 DL-Power,  
 DLPowerAveragingWindowSize,  
 DL-ScramblingCode,  
 DL-TimeslotISCP,  
 DL-Timeslot-Information,  
 DL-TimeslotLCR-Information,  
 DL-TimeslotISCPInfo,  
 DL-TimeslotISCPInfoLCR,  
 DL-TPC-Pattern01Count,  
 DPC-Mode,  
 DPCH-ID,  
 DSCH-ID,  
 DSCH-FDD-Common-Information,

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DSCH-FDD-Information,  
DSCH-InformationResponse,  
DSCH-TDD-Information,  
DwPCH-Power,  
End-Of-Audit-Sequence-Indicator,  
EnhancedDSCHPC,  
EnhancedDSCHPCCounter,  
EnhancedDSCHPCIndicator,  
EnhancedDSCHPCWnd,  
EnhancedDSCHPowerOffset,  
FDD-DL-ChannelisationCodeNumber,  
FDD-DL-CodeInformation,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FNReportingIndicator,  
FPACH-Power,  
FrameAdjustmentValue,  
FrameHandlingPriority,  
FrameOffset,  
IB-OC-ID,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
InformationExchangeID,  
InformationReportCharacteristics,  
InformationType,  
InnerLoopDLPCStatus,  
IPDL-FDD-Parameters,  
IPDL-TDD-Parameters,  
IPDL-Indicator,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOFUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleAllocationMode,  
MidambleShiftAndBurstType,  
MidambleShiftLCR,  
MinimumDL-PowerCapability,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NCyclesPerSFNperiod,  
NFmax,  
NRepetitionsPerCyclePeriod,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NeighbouringCellMeasurementInformation,  
NeighbouringFDDCellMeasurementInformation,  
NeighbouringTDDCellMeasurementInformation,  
NodeB-CommunicationContextID,  
NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PICH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PredictedSFNSFNDeviationLimit,



PredictedTUTRANGPSDeviationLimit,  
 PrimaryCPICH-Power,  
 PrimaryScramblingCode,  
 PropagationDelay,  
 SCH-TimeSlot,  
 PunctureLimit,  
 PUSCHSet-ID,  
 PUSCH-ID,  
 QE-Selector,  
 RACH-SlotFormat,  
 RACH-SubChannelNumbers,  
 ReferenceClockAvailability,  
 ReferenceSFNOffset,  
 RepetitionLength,  
 RepetitionPeriod,  
 ReportCharacteristics,  
 RequestedDataValue,  
 RequestedDataValueInformation,  
 ResourceOperationalState,  
 RL-Set-ID,  
 RL-ID,  
 Received-total-wide-band-power-Value,  
 AdjustmentPeriod,  
 ScaledAdjustmentRatio,  
 MaxAdjustmentStep,  
 RNC-ID,  
 ScramblingCodeNumber,  
 SecondaryCCPCH-SlotFormat,  
 Segment-Type,  
 S-FieldLength,  
 SFN,  
 SFNSFNChangeLimit,  
 SFNSFNDriftRate,  
 SFNSFNDriftRateQuality,  
 SFNSFNQuality,  
 ShutdownTimer,  
 SIB-Originator,  
 SpecialBurstScheduling,  
 SSDT-Cell-Identity,  
 SSDT-CellID-Length,  
 SSDT-Indication,  
 Start-Of-Audit-Sequence-Indicator,  
 STTD-Indicator,  
 SSDT-SupportIndicator,  
 SyncCase,  
 SyncFrameNumber,  
 SynchronisationReportCharacteristics,  
 SynchronisationReportType,  
 T-Cell,  
 T-RLFAILURE,  
 TDD-ChannelisationCode,  
 TDD-ChannelisationCodeLCR,  
 TDD-DL-Code-LCR-Information,  
 TDD-DPCHOffset,  
 TDD-TPC-DownlinkStepSize,  
 TDD-PhysicalChannelOffset,  
 TDD-UL-Code-LCR-Information,  
 TFCI2-BearerInformationResponse,  
 TFCI-Coding,  
 TFCI-Presence,  
 TFCI-SignallingMode,  
 TFCS,  
 TimeSlot,  
 TimeSlotLCR,  
 TimeSlotDirection,  
 TimeSlotStatus,  
 TimingAdjustmentValue,  
 TimingAdvanceApplied,  
 ToAWE,  
 ToAWS,  
 TransmissionDiversityApplied,  
 TransmitDiversityIndicator,  
 TransmissionGapPatternSequenceCodeInformation,  
 Transmission-Gap-Pattern-Sequence-Information,  
 TransportBearerRequestIndicator,

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TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
TUTRANGPS,  
TUTRANGPSChangeLimit,  
TUTRANGPSDriftRate,  
TUTRANGPSDriftRateQuality,  
TUTRANGPSQuality,  
UARFCN,  
UC-Id,  
USCH-Information,  
USCH-InformationResponse,  
UL-CapacityCredit,  
UL-DPCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-PhysCH-SF-Variation,  
UL-ScramblingCode,  
UL-Timeslot-Information,  
UL-TimeslotLCR-Information,  
UL-TimeSlot-ISCP-Info,  
UL-TimeSlot-ISCP-LCR-Info,  
UL-TimeSlotISCP-Value,  
UL-TimeSlotISCP-Value-IncrDecrThres,  
USCH-ID,  
UL-Synchronisation-Parameters-LCR,  
TDD-DL-DPCH-TimeSlotFormat-LCR,  
TDD-UL-DPCH-TimeSlotFormat-LCR,  
TDD-TPC-UplinkStepSize-LCR  
FROM NBAP-IEs

PrivateIE-Container(),  
ProtocolExtensionContainer(),  
ProtocolIE-Container(),  
ProtocolIE-Single-Container(),  
ProtocolIE-ContainerList(),  
NBAP-PRIVATE-IES,  
NBAP-PROTOCOL-IES,  
NBAP-PROTOCOL-EXTENSION  
FROM NBAP-Containers

id-Active-Pattern-Sequence-Information,  
id-AdjustmentRatio,  
id-AICH-Information,  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-AP-AICH-Information,  
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-BCH-Information,  
id-BCCH-ModificationTime,  
id-BlockingPriorityIndicator,  
id-Cause,  
id-CauseLevel-PSCH-ReconfFailureTDD,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CauseLevel-SyncAdjustmntFailureTDD,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-CCTrCH-InformationItem-RL-FailureInd,  
id-CCTrCH-InformationItem-RL-RestoreInd,  
id-CDCA-ICH-Information,  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD,  
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellParameterID,  
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD,  
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD,  
id-cellSyncBurstRepetitionPeriod,  
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD,

id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD,  
 id-CellSyncBurstMeasReconfInfo-CellSyncReconfRqstTDD,  
 id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,  
 id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,  
 id-CellSyncInfo-CellSyncReprtTDD,  
 id-CFN,  
 id-CFNReportingIndicator,  
 id-C-ID,  
 id-Closed-Loop-Timing-Adjustment-Mode,  
 id-CommonMeasurementAccuracy,  
 id-CommonMeasurementObjectType-CM-Rprt,  
 id-CommonMeasurementObjectType-CM-Rqst,  
 id-CommonMeasurementObjectType-CM-Rsp,  
 id-CommonMeasurementType,  
 id-CommonPhysicalChannelID,  
 id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
 id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
 id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
 id-CommunicationContextInfoItem-Reset,  
 id-CommunicationControlPortID,  
 id-CommunicationControlPortInfoItem-Reset,  
 id-Compressed-Mode-Deactivation-Flag,  
 id-ConfigurationGenerationID,  
 id-CPCH-Information,  
 id-CPCH-Parameters-CTCH-SetupRsp,  
 id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,  
 id-CRNC-CommunicationContextID,  
 id-CriticalityDiagnostics,  
 id-CSBTransmissionID,  
 id-CSBMeasurementID,  
 id-DCHs-to-Add-FDD,  
 id-DCHs-to-Add-TDD,  
 id-DCH-AddList-RL-ReconfPrepTDD,  
 id-DCH-DeleteList-RL-ReconfPrepFDD,  
 id-DCH-DeleteList-RL-ReconfPrepTDD,  
 id-DCH-DeleteList-RL-ReconfRqstFDD,  
 id-DCH-DeleteList-RL-ReconfRqstTDD,  
 id-DCH-FDD-Information,  
 id-DCH-TDD-Information,  
 id-DCH-InformationResponse,  
 id-FDD-DCHs-to-Modify,  
 id-TDD-DCHs-to-Modify,  
 id-DedicatedMeasurementObjectType-DM-Rprt,  
 id-DedicatedMeasurementObjectType-DM-Rqst,  
 id-DedicatedMeasurementObjectType-DM-Rsp,  
 id-DedicatedMeasurementType,  
 id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
 id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
 id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
 id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
 id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
 id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
 id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
 id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
 id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
 id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
 id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
 id-DL-DPCH-Information-RL-ReconfPrepFDD,  
 id-DL-DPCH-Information-RL-ReconfRqstFDD,  
 id-DL-DPCH-Information-RL-SetupRqstFDD,  
 id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
 id-DLReferencePower,  
 id-DLReferencePowerList-DL-PC-Rqst,  
 id-DL-TPC-Pattern01Count,  
 id-DPC-Mode,  
 id-DPCHConstant,  
 id-DSCH-AddItem-RL-ReconfPrepFDD,  
 id-DSCHs-to-Add-FDD,  
 id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
 id-DSCH-DeleteList-RL-ReconfPrepFDD,

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id-DSCHs-to-Add-TDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-InformationResponse,  
id-DSCH-FDD-Information,  
id-DSCH-FDD-Common-Information,  
id-DSCH-TDD-Information,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-End-Of-Audit-Sequence-Indicator,  
id-EnhancedDSCHPC,  
id-EnhancedDSCHPCIndicator,  
id-FACH-Information,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-InformationExchangeID,  
id-InformationExchangeObjectType-InfEx-Rqst,  
id-InformationExchangeObjectType-InfEx-Rsp,  
id-InformationExchangeObjectType-InfEx-Rprt,  
id-InformationReportCharacteristics,  
id-InformationType,  
id-InitDL-Power,  
id-InnerLoopDLPCStatus,  
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD,  
id-IPDLParameter-Information-Cell-ReconfRqstFDD,  
id-IPDLParameter-Information-Cell-SetupRqstFDD,  
id-IPDLParameter-Information-Cell-ReconfRqstTDD,  
id-IPDLParameter-Information-Cell-SetupRqstTDD,  
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-Group-InformationItem-AuditRsp,  
id-Local-Cell-Group-InformationItem-ResourceStatusInd,  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd,  
id-Local-Cell-Group-InformationList-AuditRsp,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NCyclesPerSFNperiod,  
id-NeighbouringCellMeasurementInformation,  
id-NodeB-CommunicationContextID,  
id-NRrepetitionsPerCyclePeriod,  
id-P-CCPCH-Information,  
id-P-CPICH-Information,  
id-P-SCH-Information,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-Information,  
id-PCPCH-Information,  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCH-RL-ID,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-Information,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PICH-ParametersItem-CTCH-SetupRqstTDD,

id-PowerAdjustmentType,  
 id-PRACH-Information,  
 id-PRACHConstant,  
 id-PRACH-ParametersItem-CTCH-SetupRqstTDD,  
 id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
 id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
 id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
 id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
 id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
 id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
 id-PrimarySCH-Information-Cell-SetupRqstFDD,  
 id-PrimaryScramblingCode,  
 id-SCH-Information-Cell-ReconfRqstTDD,  
 id-SCH-Information-Cell-SetupRqstTDD,  
 id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
 id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
 id-PUSCHConstant,  
 id-PUSCHSets-AddList-PSCH-ReconfRqst,  
 id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
 id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
 id-RACH-Information,  
 id-RACH-Parameters-CTCH-SetupRsp,  
 id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
 id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
 id-ReferenceClockAvailability,  
 id-ReferenceSFNoffset,  
 id-ReportCharacteristics,  
 id-Reporting-Object-RL-FailureInd,  
 id-Reporting-Object-RL-RestoreInd,  
 id-ResetIndicator,  
 id-RL-InformationItem-DM-Rprt,  
 id-RL-InformationItem-DM-Rqst,  
 id-RL-InformationItem-DM-Rsp,  
 id-RL-InformationItem-RL-AdditionRqstFDD,  
 id-RL-informationItem-RL-DeletionRqst,  
 id-RL-InformationItem-RL-FailureInd,  
 id-RL-InformationItem-RL-PreemptRequiredInd,  
 id-RL-InformationItem-RL-ReconfPrepFDD,  
 id-RL-InformationItem-RL-ReconfRqstFDD,  
 id-RL-InformationItem-RL-RestoreInd,  
 id-RL-InformationItem-RL-SetupRqstFDD,  
 id-RL-InformationList-RL-AdditionRqstFDD,  
 id-RL-informationList-RL-DeletionRqst,  
 id-RL-InformationList-RL-PreemptRequiredInd,  
 id-RL-InformationList-RL-ReconfPrepFDD,  
 id-RL-InformationList-RL-ReconfRqstFDD,  
 id-RL-InformationList-RL-SetupRqstFDD,  
 id-RL-InformationResponseItem-RL-AdditionRspFDD,  
 id-RL-InformationResponseItem-RL-ReconfReady,  
 id-RL-InformationResponseItem-RL-ReconfRsp,  
 id-RL-InformationResponseItem-RL-SetupRspFDD,  
 id-RL-InformationResponseList-RL-AdditionRspFDD,  
 id-RL-InformationResponseList-RL-ReconfReady,  
 id-RL-InformationResponseList-RL-ReconfRsp,  
 id-RL-InformationResponseList-RL-SetupRspFDD,  
 id-RL-InformationResponse-RL-AdditionRspTDD,  
 id-RL-InformationResponse-RL-SetupRspTDD,  
 id-RL-Information-RL-AdditionRqstTDD,  
 id-RL-Information-RL-ReconfRqstTDD,  
 id-RL-Information-RL-ReconfPrepTDD,  
 id-RL-Information-RL-SetupRqstTDD,  
 id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
 id-RL-Set-InformationItem-DM-Rprt,  
 id-RL-Set-InformationItem-DM-Rsp,  
 id-RL-Set-InformationItem-RL-FailureInd,  
 id-RL-Set-InformationItem-RL-RestoreInd,  
 id-S-CCPCH-Information,  
 id-S-CPICH-Information,  
 id-SCH-Information,  
 id-S-SCH-Information,  
 id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
 id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
 id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
 id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
 id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,

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id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-SFN,  
id-SFNReportingIndicator,  
id-ShutdownTimer,  
id-SSDT-CellIDforEDSCHPC,  
id-Start-Of-Audit-Sequence-Indicator,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-SyncFrameNumber,  
id-SynchronisationReportType,  
id-SynchronisationReportCharacteristics,  
id-SyncReportType-CellSyncReprtTDD,  
id-T-Cell,  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,  
id-TFCI2-BearerInformationResponse,  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,  
id-Transmission-Gap-Pattern-Sequence-Information,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-timeslotInfo-CellSyncInitiationRqstTDD,  
id-TimeslotISCPInfo,  
id-TimingAdvanceApplied,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-Information-Add,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-InformationResponse,  
id-USCH-Information,  
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD,  
id-DwPCH-LCR-Information,  
id-DwPCH-LCR-InformationList-AuditRsp,  
id-DwPCH-LCR-Information-Cell-SetupRqstTDD,  
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD,  
id-DwPCH-LCR-Information-ResourceStatusInd,  
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,  
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,  
id-FPACH-LCR-Information,  
id-FPACH-LCR-Information-AuditRsp,

id-FPACH-LCR-InformationList-AuditRsp,  
 id-FPACH-LCR-InformationList-ResourceStatusInd,  
 id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,  
 id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,  
 id-PCCPCH-LCR-Information-Cell-SetupRqstTDD,  
 id-PCH-Power-LCR-CTCH-SetupRqstTDD,  
 id-PCH-Power-LCR-CTCH-ReconfRqstTDD,  
 id-PICH-LCR-Parameters-CTCH-SetupRqstTDD,  
 id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD,  
 id-RL-InformationResponse-LCR-RL-SetupRspTDD,  
 id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,  
 id-TimeSlot,  
 id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,  
 id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,  
 id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD,  
 id-TimeSlotLCR-CM-Rqst,  
 id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,  
 id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,  
 id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,  
 id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD,  
 id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,  
 id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,  
 id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,  
 id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD,  
 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-LCR-InformationModify-AddList,  
 id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD,  
 id-UL-SIRTarget,  
 id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst,  
 id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,  
 id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst,  
 id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,  
 id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,  
 id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,  
 id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,  
 id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,  
 id-PUSCH-Info-DM-Rqst,  
 id-PUSCH-Info-DM-Rsp,  
 id-PUSCH-Info-DM-Rprt,  
 id-RL-InformationResponse-LCR-RL-AdditionRspTDD,  
 id-UL-Synchronisation-Parameters-LCR,  
 id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,  
 id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,  
 id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD,  
 id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD,  
 id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD,  
 id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD,  
 id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD,  
 id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD,  
 id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD,  
 id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp,  
 id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp,  
 id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD,  
 id-URAFCN-Adjustment,  
 id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd,  
 id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd,

maxNrOfCCTrCHs,  
 maxNrOfCellSyncBursts,  
 maxNrOfCodes,  
 maxNrOfCPCHs,  
 maxNrOfDCHs,  
 maxNrOfDLTSs,  
 maxNrOfDLTSLCRs,  
 maxNrOfDPCHs,  
 maxNrOfDPCHLCRs,  
 maxNrOfDSCHs,  
 maxNrOfFACHs,  
 maxNrOfRLs,  
 maxNrOfRLs-1,  
 maxNrOfRLs-2,  
 maxNrOfRLSets,  
 maxNrOfPCPCHs,  
 maxNrOfPDSCHs,  
 maxNrOfPUSCHs,

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maxNrOfPRACHLCRs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfReceptsPerSyncFrame,
maxNrOfSCCPCHs,
maxNrOfSCCPCHLCRs,
maxNrOfULTSs,
maxNrOfULTSLCRs,
maxNrOfFUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxFPACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxCommunicationContext,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxNrOfCellSyncBursts,
maxNrOfReceptsPerSyncFrame,
maxIB,
maxIBSEG,
maxFrequencyinCell,
maxFrequencyinCell-1
FROM NBAP-Constants;

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
--
-- *****

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

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

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY   reject  TYPE      C-ID
      PRESENCE   mandatory  }}
    { ID      id-ConfigurationGenerationID  CRITICALITY   reject  TYPE
      ConfigurationGenerationID
      PRESENCE   mandatory  }}
    { ID      id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  CRITICALITY   ignore  TYPE
      CommonPhysicalChannelType-CTCH-
      SetupRqst  FDDPRESENCE mandatory  },
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstFDD,
    PRACH-parameters                PRACH-CTCH-SetupRqstFDD,
    pCPCHes-parameters              PCPCH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset              FDD-S-CCPCH-Offset,
    dl-ScramblingCode               DL-ScramblingCode    OPTIONAL,
    -- This IE shall be present if the PCH Parameters IE is not present
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    tFCS                            TFCS,
}

```



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secondary-CCPCH-SlotFormat          SecondaryCCPCH-SlotFormat,
tPCI-Presence                       TPCI-Presence    OPTIONAL,
-- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from
8 to 17
multiplexingPosition                MultiplexingPosition,
powerOffsetInformation              PowerOffsetInformation-CTCH-SetupRqstFDD,
sTTD-Indicator                      STTD-Indicator,
fACH-Parameters                    FACH-ParametersList-CTCH-SetupRqstFDD    OPTIONAL,
pCH-Parameters                     PCH-Parameters-CTCH-SetupRqstFDD        OPTIONAL,
iE-Extensions                      ProtocolExtensionContainer { { Secondary-CCPCHItem-
CTCH-SetupRqstFDD-ExtIEs) }    OPTIONAL,
...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
p01-ForTFCI-Bits                   PowerOffset,
p03-ForPilotBits                   PowerOffset,
iE-Extensions                      ProtocolExtensionContainer { { PowerOffsetInformation-
CTCH-SetupRqstFDD-ExtIEs) }    OPTIONAL,
...
}

PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container ({ FACH-ParametersListIEs-
CTCH-SetupRqstFDD })

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

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

FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID           CommonTransportChannelID,
transportFormatSet                 TransportFormatSet,
toAWS                              ToAWS,
toAWE                              ToAWE,
maxFACH-Power                     DL-Power,
iE-Extensions                      ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-
SetupRqstFDD-ExtIEs) }    OPTIONAL,
...
}

FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container ({ PCH-ParametersIE-CTCH-
SetupRqstFDD })

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

PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID           CommonTransportChannelID,
transportFormatSet                 TransportFormatSet,
toAWS                              ToAWS,
toAWE                              ToAWE,
pCH-Power                          DL-Power,
pICH-Parameters                    PICH-Parameters-CTCH-SetupRqstFDD,
iE-Extensions                      ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-
SetupRqstFDD-ExtIEs) }    OPTIONAL,
...
}

```

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```

PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    pICH-Power                       PICH-Power,
    pICH-Mode                         PICH-Mode,
    sTFD-Indicator                   STFD-Indicator,
    iE-Extensions                    ProtocolExtensionContainer { { PICH-Parameters-CTCH-
                                     SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-CTCH-SetupRqstFDD ::= SEQUENCE (
    commonPhysicalChannelID          CommonPhysicalChannelID,
    scramblingCodeNumber            ScramblingCodeNumber,
    tPCS                             TPCS,
    preambleSignatures              PreambleSignatures,
    allowedSlotFormatInformationList AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
    RACH-SubChannelNumbers          RACH-SubChannelNumbers,
    ul-punctureLimit                PunctureLimit,
    preambleThreshold               PreambleThreshold,
    RACH-Parameters                 RACH-Parameters-CTCH-SetupRqstFDD,
    aICH-Parameters                 AICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                    ProtocolExtensionContainer { { PRACHItem-CTCH-
                                     SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
)

PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH))
OF AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    RACHSlotFormat                  RACH-SlotFormat,
    iE-Extensions                   ProtocolExtensionContainer
    { { AllowedSlotFormatInformationItem-CTCH-
        SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container ({ RACH-ParametersIE-CTCH-
SetupRqstFDD })

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IEs ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE RACH-ParametersItem-
CTCH-SetupRqstFDD PRESENCE mandatory }
}

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID        CommonTransportChannelID,
    transportFormatSet              TransportFormatSet,
    iE-Extensions                   ProtocolExtensionContainer { { RACH-ParametersItem-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    aICH-TransmissionTiming      AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aICH-Power                    AICH-Power,
    sTTD-Indicator                STTD-Indicator,
    iE-Extensions                 ProtocolExtensionContainer ( { AICH-Parameters-
    ...                             CTCH-SetupRqstFDD-ExtIEs} ) OPTIONAL,
}

AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    cPCH-Parameters              CPCH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                 ProtocolExtensionContainer ( { PCPCHItem-CTCH-SetupRqstFDD-
    ...                             ExtIEs} ) OPTIONAL,
}

PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportFormatSet            TransportFormatSet,
    aPPreambleScramblingCode      CPCHScramblingCodeNumber,
    cDPreambleScramblingCode      CPCHScramblingCodeNumber,
    tPCS                          TFCS,
    cDSignatures                   PreambleSignatures          OPTIONAL,
    cDSubChannelNumbers            CDSUBChannelNumbers          OPTIONAL,
    punctureLimit                  PunctureLimit,
    cPCH-UL-DPCCH-SlotFormat       CPCH-UL-DPCCH-SlotFormat,
    uL-SIR                          UL-SIR,
    initialDL-transmissionPower     DL-Power,
    maximumDLPower                  DL-Power,
    minimumDLPower                  DL-Power,
    pO2-ForTPC-Bits                 PowerOffset,
    fDD-TPC-DownlinkStepSize        FDD-TPC-DownlinkStepSize,
    nStartMessage                   NStartMessage,
    nEOT                             NEOT,
    channel-Assignment-Indication    Channel-Assignment-Indication,
    cPCH-Allowed-Total-Rate          CPCH-Allowed-Total-Rate,
    pCPCHChannelInformation          PCPCHChannelInformationList-CTCH-SetupRqstFDD,
    vCAMapping-Information           VCAMapping-InformationList-CTCH-SetupRqstFDD OPTIONAL,
    -- this IE shall be present if the Channel Assignment Indication is set to "CA Active" --
    aP-AICH-Parameters              AP-AICH-Parameters-CTCH-SetupRqstFDD,
    cDCA-ICH-Parameters             CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                 ProtocolExtensionContainer ( { CPCH-Parameters-CTCH-
    ...                             SetupRqstFDD-ExtIEs} ) OPTIONAL,
}

CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCPCHChannelInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF
PCPCHChannelInformationItem-CTCH-SetupRqstFDD

PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    cPCHScramblingCodeNumber      CPCHScramblingCodeNumber,
    dl-ScramblingCode             DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    pCP-Length                     PCP-Length,
    uCSM-Information               UCSM-Information-CTCH-SetupRqstFDD OPTIONAL,
    -- this IE shall be present if the Channel Assignment Indication is equal to "CA Inactive" --
    iE-Extensions                 ProtocolExtensionContainer ( { PCPCHChannelInformationItem-
    ...                             CTCH-SetupRqstFDD-ExtIEs} ) OPTIONAL,
}

```

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```

PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength    MinUL-ChannelisationCodeLength,
    nFmax                               NFmax,
    channelRequestParameters           ChannelRequestParametersList-CTCH-SetupRqstFDD    OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { UCSM-InformationItem-CTCH-
                                         SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ChannelRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF
ChannelRequestParametersItem-CTCH-SetupRqstFDD

ChannelRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature                APPreambleSignature,
    aPSubChannelNumber                 APSubChannelNumber    OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { ChannelRequestParametersItem-CTCH-
                                         SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

VCAMMapping-InformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNoofLen)) OF VCAMMapping-
InformationItem-CTCH-SetupRqstFDD

VCAMMapping-InformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength    MinUL-ChannelisationCodeLength,
    nFmax                               NFmax,
    max-Number-of-PCPCHes             Max-Number-of-PCPCHes,
    sFRequestParameters               SFRequestParametersList-CTCH-SetupRqstFDD,
    iE-Extensions                       ProtocolExtensionContainer { { VCAMMapping-InformationItem-
                                         CTCH-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SFRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF
SFRequestParametersItem-CTCH-SetupRqstFDD

SFRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature                APPreambleSignature,
    aPSubChannelNumber                 APSubChannelNumber    OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { SFRequestParametersItem-CTCH-
                                         SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AP-AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID            CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    aP-AICH-Power                       AICH-Power,
    cSICH-Power                          AICH-Power,
    sTTD-Indicator                       STTD-Indicator,
    iE-Extensions                       ProtocolExtensionContainer { { AP-AICH-Parameters-
                                         CTCH-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CDCA-ICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    cDCA-ICH-Power                   AICH-Power,
    sTTD-Indicator                   STTD-Indicator,
    iE-Extensions                    ProtocolExtensionContainer { { CDCA-ICH-Parameters-
                                         CTCH-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

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

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

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

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

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {

```

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```
{ ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD PRESENCE optional }
{ ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD PRESENCE optional }
}
```

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

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

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

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

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

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

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

```
FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    ...
}
```

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

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

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

```

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

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

PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PICH-ParametersItem-
CTCH-SetupRqstTDD PRESENCE optional } |
  { ID id-PICH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject TYPE PICH-LCR-Parameters-
CTCH-SetupRqstTDD PRESENCE optional }
}

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

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

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

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

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

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

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

```

```

)
...
PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
    pRACH-Parameters-CTCH-SetupRqstTDD
    iE-Extensions
    PRACH-Parameters-CTCH-SetupRqstTDD,
    ProtocolExtensionContainer ( { PRACH-CTCH-
    SetupRqstTDD-ExtIEs } ) OPTIONAL,
}
...
PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ( ID id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION
    FPACH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional ),
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
}
...
PRACH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container ( { PRACH-ParametersIE-CTCH-
SetupRqstTDD } )
PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    ( ID id-PRACH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-ParametersItem-
    CTCH-SetupRqstTDD PRESENCE optional ) |
    ( ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE
    PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional )
}
PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    tFCS TFCS,
    timeslot TimeSlot,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    maxPRACH-MidambleShifts MaxPRACH-MidambleShifts,
    pRACH-Midamble PRACH-Midamble,
    rACH RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer ( { PRACH-
    ParametersItem-CTCH-SetupRqstTDD-ExtIEs } ) OPTIONAL,
}
...
PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...
RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container ( { RACH-ParameterIE-CTCH-
SetupRqstTDD } )
RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= (
    ( ID id-RACH-ParameterItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE RACH-ParameterItem-
    CTCH-SetupRqstTDD PRESENCE mandatory )
)
RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    uL-TransportFormatSet TransportFormatSet,
    iE-Extensions ProtocolExtensionContainer ( { RACH-ParameterItem-
    CTCH-SetupRqstTDD-ExtIEs } ) OPTIONAL,
}
...
RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...
PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-
ParametersItem-CTCH-SetupRqstTDD
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    tFCS TFCS,
    timeslotLCR TimeSlotLCR,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    midambleShiftLCR MidambleShiftLCR,
    rACH RACH-Parameter-CTCH-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer ( { PRACH-LCR-
    ParametersItem-CTCH-SetupRqstTDD-ExtIEs } ) OPTIONAL,
}
...
}

```



```

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

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

FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    (ID id-UARFCNforNt    CRITICALITY reject    EXTENSION UARFCN    PRESENCE optional), --
    Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of
    Secondary Frequency on which FPACH to be set up.
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
--
-- *****

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

CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    ( ID   id-FACH-ParametersList-CTCH-SetupRsp    CRITICALITY ignore    TYPE    FACH-
    CommonTransportChannel-InformationResponse
    PRESENCE optional    )|
    ( ID   id-PCH-Parameters-CTCH-SetupRsp        CRITICALITY ignore    TYPE
    CommonTransportChannel-InformationResponse
    PRESENCE optional    )|
    ( ID   id-RACH-Parameters-CTCH-SetupRsp       CRITICALITY ignore    TYPE
    CommonTransportChannel-InformationResponse
    PRESENCE optional    )|
    ( ID   id-CPCH-Parameters-CTCH-SetupRsp       CRITICALITY ignore    TYPE
    CommonTransportChannel-InformationResponse
    CRITICALITY ignore    TYPE
    CriticalityDiagnostics RESENCE optional    ),
    ...
}

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

FACH-CommonTransportChannel-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF
CommonTransportChannel-InformationResponse

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP FAILURE
--
-- *****

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

CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
    ( ID   id-Cause          CRITICALITY ignore    TYPE    Cause    PRESENCE    mandatory    )|

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    ( ID      id-CriticalityDiagnostics  CRITICALITY ignore    TYPE    CriticalityDiagnostics
  PRESENCE  optional                    ),
    ...
}

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

-- *****
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
-- *****

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

CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  ( ID      id-C-ID                                CRITICALITY reject    TYPE    C-ID
  PRESENCE  mandatory )|
  ( ID      id-ConfigurationGenerationID          CRITICALITY reject    TYPE
  ConfigurationGenerationID PRESENCE
  mandatory )|
  ( ID      id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD CRITICALITY reject    TYPE
  CommonPhysicalChannelType-CTCH-
  ReconfRqstFDD PRESENCE mandatory ),
  ...
}

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

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
  secondary-CCPCH-parameters      Secondary-CCPCHList-CTCH-ReconfRqstFDD,
  pRACH-parameters                PRACHList-CTCH-ReconfRqstFDD,
  cPCH-parameters                 CPCHList-CTCH-ReconfRqstFDD,
  ...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
  fACH-ParametersList-CTCH-ReconfRqstFDD  FACH-ParametersList-CTCH-ReconfRqstFDD  OPTIONAL,
  pCH-Parameters-CTCH-ReconfRqstFDD      PCH-Parameters-CTCH-ReconfRqstFDD      OPTIONAL,
  pICH-Parameters-CTCH-ReconfRqstFDD     PICH-Parameters-CTCH-ReconfRqstFDD     OPTIONAL,
  iE-Extensions                          ProtocolExtensionContainer ( { Secondary-CCPCH-CTCH-
  ReconfRqstFDD-ExtIEs) ) OPTIONAL,
  ...
}

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

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

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

FACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-
ParametersItem-CTCH-ReconfRqstFDD

FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  maxFACH-Power                     DL-Power                OPTIONAL,
  toAWS                             ToAWS                   OPTIONAL,
  toAWE                              ToAWE                   OPTIONAL,
}

```

```

    iE-Extensions
    ProtocolExtensionContainer { ( FACH-ParametersItem-
    CTCH-ReconfRqstFDD-ExtIEs) } OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container (( PCH-ParametersIE-CTCH-
ReconfRqstFDD ))

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

PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    pCH-Power DL-Power OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { ( PCH-ParametersItem-CTCH-
ReconfRqstFDD-ExtIEs) } OPTIONAL,
    ...
}

PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container (( PICH-ParametersIE-CTCH-
ReconfRqstFDD ))

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

PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    pICH-Power PICH-Power OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { ( PICH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs) } OPTIONAL,
    ...
}

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

PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    pRACH-ParametersList-CTCH-ReconfRqstFDD PRACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    aICH-ParametersList-CTCH-ReconfRqstFDD AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { ( PRACH-CTCH-
ReconfRqstFDD-ExtIEs) } OPTIONAL,
    ...
}

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

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container (( PRACH-ParametersListIEs-
CTCH-ReconfRqstFDD ))

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

PRACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-
ParametersItem-CTCH-ReconfRqstFDD

PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {

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commonPhysicalChannelID      CommonPhysicalChannelID,
preambleSignatures           PreambleSignatures      OPTIONAL,
allowedSlotFormatInformation AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD
                              OPTIONAL,
rACH-SubChannelNumbers       RACH-SubChannelNumbers   OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { PRACH-ParametersItem-
                              CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
...
}

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

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..
maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
rACH-SlotFormat              RACH-SlotFormat,
iE-Extensions                 ProtocolExtensionContainer { { AllowedSlotFormat
                              InformationItem-CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
...
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ AICH-ParametersListIEs-
CTCH-ReconfRqstFDD }}

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

AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-
ParametersItem-CTCH-ReconfRqstFDD

AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
aICH-Power                   AICH-Power      OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { AICH-ParametersItemIE-
                              CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
...
}

AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
cPCH-ParametersList-CTCH-ReconfRqstFDD      CPCH-ParametersList-CTCH-ReconfRqstFDD
                                              OPTIONAL,
aP-AICH-ParametersList-CTCH-ReconfRqstFDD   AP-AICH-ParametersList-CTCH-ReconfRqstFDD
                                              OPTIONAL,
cDCA-ICH-ParametersList-CTCH-ReconfRqstFDD CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD
                                              OPTIONAL,
iE-Extensions                             ProtocolExtensionContainer { { CPCHListItem-
                              CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
...
}

CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CPCH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ CPCH-ParametersListIEs-
CTCH-ReconfRqstFDD }}

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

```

```

CPCH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CPCH-
ParametersItem-CTCH-ReconfRqstFDD

CPCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    uL-SIR                        UL-SIR            OPTIONAL,
    initialDL-transmissionPower    DL-Power        OPTIONAL,
    maximumDLPower                DL-Power        OPTIONAL,
    minimumDLPower                DL-Power        OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { CPCH-ParametersItem-CTCH-
ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AP-AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { AP-AICH-
ParametersListIEs-CTCH-ReconfRqstFDD } }

AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AP-AICH-
ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-
ParametersItem-CTCH-ReconfRqstFDD

AP-AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    aP-AICH-Power                AICH-Power        OPTIONAL,
    cSICH-Power                  AICH-Power        OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { AP-AICH-
ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { CDCA-ICH-
ParametersListIEs-CTCH-ReconfRqstFDD } }

CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CDCA-ICH-
ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CDCA-ICH-
ParametersItem-CTCH-ReconfRqstFDD

CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    cDCA-ICH-Power               AICH-Power        OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { CDCA-ICH-
ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

CommonTransportChannelReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs                  ProtocolIE-Container
                                { { CommonTransportChannelReconfigurationRequestTDD-IEs } },
    protocolExtensions            ProtocolExtensionContainer
}

```

```

...
{{CommonTransportChannelReconfigurationRequestTDD-Extensions}} OPTIONAL,
}
}

CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID                                     CRITICALITY reject      TYPE      C-ID
    PRESENCE mandatory    }|
  { ID id-ConfigurationGenerationID               CRITICALITY reject      TYPE
    ConfigurationGenerationID
    PRESENCE mandatory    }|
  { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
    CRITICALITY reject TYPE
    Secondary-CCPCH-Parameters-CTCH-
    ReconfRqstTDD PRESENCE optional}|
  { ID id-PICH-Parameters-CTCH-ReconfRqstTDD      CRITICALITY reject TYPE PICH-
    Parameters-CTCH-ReconfRqstTDD
    PRESENCE optional }|
  { ID id-FACH-ParametersList-CTCH-ReconfRqstTDD CRITICALITY reject TYPE FACH-
    ParametersList-CTCH-ReconfRqstTDD
    PRESENCE optional }|
  { ID id-PCH-Parameters-CTCH-ReconfRqstTDD       CRITICALITY reject TYPE PCH-
    Parameters-CTCH-ReconfRqstTDD
    PRESENCE optional },
  ...
}

CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION FPACH-LCR-
    Parameters-CTCH-ReconfRqstTDD PRESENCE optional },
  -- Applicable to 1.28Mcps TDD only
  ...
}

Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  cctrch-ID          Cctrch-ID,
  secondaryCCPCHList Secondary-CCPCHList-CTCH-ReconfRqstTDD OPTIONAL,
  ie-Extensions     ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-
    ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

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

Secondary-CCPCHList-CTCH-ReconfRqstTDD ::= ProtocolIE-Single-Container { { Secondary-CCPCHListIEs-
  CTCH-ReconfRqstTDD } }

Secondary-CCPCHListIEs-CTCH-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD CRITICALITY reject TYPE Secondary-
    CCPCHListIE-CTCH-ReconfRqstTDD PRESENCE mandatory }
}

Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrofSCCPCHs)) OF Secondary-
  CCPCHItem-CTCH-ReconfRqstTDD

Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  sccpch-Power            DL-Power OPTIONAL,
  ie-Extensions          ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-
    ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  pich-Power              PICH-Power OPTIONAL,
  ie-Extensions          ProtocolExtensionContainer { { PICH-Parameters-CTCH-
    ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-
CTCH-ReconfRqstTDD

FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    toAWS                          ToAWS              OPTIONAL,
    toAWE                          ToAWE              OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer ( { FACH-ParametersItem-CTCH-
                                ReconfRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ( ID      id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD      CRITICALITY reject      EXTENSION      DL-
    Power      PRESENCE      optional      ),
    -- Applicable to 1.28Mcps TDD only
    ...
}

PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    toAWS                          ToAWS              OPTIONAL,
    toAWE                          ToAWE              OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer ( { PCH-Parameters-CTCH-
                                ReconfRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ( ID      id-PCH-Power-LCR-CTCH-ReconfRqstTDD      CRITICALITY reject      EXTENSION      DL-Power
    PRESENCE      optional      ),
    ... -- Applicable to 1.28Mcps TDD only
}

FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId      CommonPhysicalChannelID,
    fPACHPower                    FPACH-Power      OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer ( { FPACH-LCR-Parameters-CTCH-
                                ReconfRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

FPACH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
--
-- *****

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

CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IEs ::= {
    ( ID      id-CriticalityDiagnostics      CRITICALITY      ignore      TYPE
    CriticalityDiagnostics      PRESENCE      optional),
    ...
}

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

-- *****

```

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```

--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
--
-- *****
CommonTransportChannelReconfigurationFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container{{CommonTransportChannelReconfigurationFailure-
                        IEs}},
    protocolExtensions  ProtocolExtensionContainer
                        {{CommonTransportChannelReconfigurationFailure-Extensions}} OPTIONAL,
    ...
}

CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-Cause          CRITICALITY ignore      TYPE    Cause
      PRESENCE mandatory    },
    { ID    id-CriticalityDiagnostics CRITICALITY ignore      TYPE
      CriticalityDiagnostics PRESENCE optional  },
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL DELETION REQUEST
--
-- *****

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

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-C-ID          CRITICALITY reject     TYPE    C-ID
      PRESENCE mandatory    },
    { ID    id-CommonPhysicalChannelID CRITICALITY reject     TYPE
      CommonPhysicalChannelID PRESENCE mandatory},
    { ID    id-ConfigurationGenerationID CRITICALITY reject     TYPE
      ConfigurationGenerationID PRESENCE mandatory},
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL DELETION RESPONSE
--
-- *****

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

CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CriticalityDiagnostics CRITICALITY ignore      TYPE
      CriticalityDiagnostics PRESENCE optional},
    ...
}

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

```



```

-- *****
--
-- BLOCK RESOURCE REQUEST
--
-- *****

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

BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY reject      TYPE      C-ID
      PRESENCE mandatory }|
    { ID      id-BlockingPriorityIndicator  CRITICALITY reject      TYPE
      BlockingPriorityIndicator  PRESENCE mandatory }|
    { ID      id-ShutdownTimer          CRITICALITY reject      TYPE      ShutdownTimer
      PRESENCE conditional },
    -- The IE shall be present if the Blocking Priority Indicator IE indicates "Normal Priority"--
    ...
}

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

-- *****
--
-- BLOCK RESOURCE RESPONSE
--
-- *****

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

BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics  CRITICALITY ignore      TYPE
      CriticalityDiagnostics  PRESENCE optional},
    ...
}

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

-- *****
--
-- BLOCK RESOURCE FAILURE
--
-- *****

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

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

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

```

```

-- *****
--
-- UNBLOCK RESOURCE INDICATION
--
-- *****

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

UnblockResourceIndication-IEs NBAP-PROTOCOL-IES ::= {
    ( ID      id-C-ID          CRITICALITY   ignore      TYPE      C-ID          PRESENCE   mandatory),
    ...
}

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

-- *****
--
-- AUDIT REQUIRED INDICATION
--
-- *****

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

AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
    ...
}

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

-- *****
--
-- AUDIT REQUEST
--
-- *****

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

AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    ( ID      id-Start-Of-Audit-Sequence-Indicator      CRITICALITY   reject      TYPE      Start-Of-Audit-Sequence-Indicator      PRESENCE   mandatory ),
    ...
}

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

-- *****
--
-- AUDIT RESPONSE
--
-- *****

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

```

```

OPTIONAL,
)
...
)
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-End-Of-Audit-Sequence-Indicator      CRITICALITY  ignore  TYPE      End-Of-
    Audit-Sequence-Indicator  PRESENCE  .
    andatory  }|
  { ID      id-Cell-InformationList-AuditRsp      CRITICALITY  ignore  TYPE      Cell-InformationList-AuditRsp  PRESENCE
    optional  }|
  { ID      id-CCP-InformationList-AuditRsp      CRITICALITY  ignore  TYPE      CCP-
    InformationList-AuditRsp  PRESENCE
    optional  }|
  -- CCP (Communication Control Port) --
  { ID      id-Local-Cell-InformationList-AuditRsp  CRITICALITY  ignore  TYPE      Local-Cell-InformationList-AuditRsp
    PRESENCE  optional  }|
  { ID      id-Local-Cell-Group-InformationList-AuditRsp  CRITICALITY  ignore  TYPE      Local-Cell-Group-InformationList-AuditRsp
    PRESENCE  optional  }|
  { ID      id-CriticalityDiagnostics      CRITICALITY  ignore  TYPE      CriticalityDiagnostics  PRESENCE
    optional  },
  ...
)
)
AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= (
  ...
)
)
Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellInNodeB)) OF ProtocolIE-Single-Container
({ Cell-InformationItemIE-AuditRsp})
Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID      id-Cell-InformationItem-AuditRsp      CRITICALITY  ignore  TYPE      Cell-
    InformationItem-AuditRsp  PRESENCE  optional  }
}
Cell-InformationItem-AuditRsp ::= SEQUENCE {
  c-ID      C-ID,
  configurationGenerationID  ConfigurationGenerationID,
  resourceOperationalState  ResourceOperationalState,
  availabilityStatus  AvailabilityStatus,
  local-Cell-ID  Local-Cell-ID,
  primary-SCH-Information  P-SCH-Information-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  secondary-SCH-Information  S-SCH-Information-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  primary-CPICH-Information  P-CPICH-Information-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  secondary-CPICH-InformationList  S-CPICH-InformationList-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  primary-CCPCH-Information  P-CCPCH-Information-AuditRsp  OPTIONAL,
  BCH-Information  BCH-Information-AuditRsp  OPTIONAL,
  secondary-CCPCH-InformationList  S-CCPCH-InformationList-AuditRsp  OPTIONAL,
  pCH-Information  PCH-Information-AuditRsp  OPTIONAL,
  pICH-Information  PICH-Information-AuditRsp  OPTIONAL,
  fACH-InformationList  FACH-InformationList-AuditRsp  OPTIONAL,
  pRACH-InformationList  PRACH-InformationList-AuditRsp  OPTIONAL,
  rACH-InformationList  RACH-InformationList-AuditRsp  OPTIONAL,
  aICH-InformationList  AICH-InformationList-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  pCPCH-InformationList  PCPCH-InformationList-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  cPCH-InformationList  CPCH-InformationList-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  aP-AICH-InformationList  AP-AICH-InformationList-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  cDCA-ICH-InformationList  CDCA-ICH-InformationList-AuditRsp  OPTIONAL,
  -- Applicable to FDD only
  sCH-Information  SCH-Information-AuditRsp  OPTIONAL,
  -- Applicable to 3.84Mcps TDD only
  iE-Extensions  ProtocolExtensionContainer { ( Cell-InformationItem-
    AuditRsp-ExtIEs) }  OPTIONAL,
}

```

```

}
...
Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  { ID id-FPACH-LCR-InformationList-AuditRsp      CRITICALITY ignore  EXTENSION  FPACH-LCR-
InformationList-AuditRsp      PRESENCE optional  }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-DwPCH-LCR-InformationList-AuditRsp      CRITICALITY ignore  EXTENSION  Common-
PhysicalChannel-Status-Information      PRESENCE optional  }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp  CRITICALITY ignore  EXTENSION
Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp  PRESENCE optional  },
  -- Applicable to 1.28Mcps TDD when using multiple frequencies
  ...
)

P-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information      CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
PRESENCE      mandatory }
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }}

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information      CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
PRESENCE      mandatory }
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information      CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
PRESENCE      mandatory }
}

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-
Container {{ S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information      CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-Information      CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information      CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
PRESENCE      mandatory }
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-
Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-Information      CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}

PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information      CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
PRESENCE      mandatory }
}

PICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}

PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-PICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container
{{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information    CRITICALITY ignore    TYPE Common-TransportChannel-Status-Information
  PRESENCE mandatory }
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container
{{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container
{{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information    CRITICALITY ignore    TYPE Common-TransportChannel-Status-Information
  PRESENCE mandatory }}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container
{{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }}

PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container
{{ PCPCH-InformationItemIE-AuditRsp }}

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information
  PRESENCE optional }}

CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container
{{ CPCH-InformationItemIE-AuditRsp }}

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information    CRITICALITY ignore    TYPE Common-TransportChannel-Status-Information
  PRESENCE optional }}

AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container
{{ AP-AICH-InformationItemIE-AuditRsp }}

AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-
  Information    PRESENCE mandatory }
}

CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-
Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}

CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-
  Information    PRESENCE mandatory }
}

SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container
{{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {

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        { ID id-CCP-InformationItem-AuditRsp      CRITICALITY ignore      TYPE      CCP-
InformationItem-AuditRsp      PRESENCE      mandatory}
    }

CCP-InformationItem-AuditRsp ::= SEQUENCE {
    communicationControlPortID      CommunicationControlPortID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus      AvailabilityStatus,
    iE-Extensions      ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-
ExtIEs }}      OPTIONAL,
    ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-
Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}

FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FPACH-LCR-Information-AuditRsp      CRITICALITY ignore TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF
ProtocolIE-Single-Container {{ Cell-Frequency-List-InformationIE-LCR-MulFreq-AuditRsp }}

Cell-Frequency-List-InformationIE-LCR-MulFreq-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp      CRITICALITY ignore      TYPE
Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp      PRESENCE mandatory }
}

Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp ::= SEQUENCE {
    uARPCN      UARFCN,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus      AvailabilityStatus,
    iE-Extensions      ProtocolExtensionContainer {{ Cell-Frequency-List-
InformationItem-LCR-MulFreq-AuditRsp-ExtIEs }}      OPTIONAL,
    ...
}

Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-
Single-Container {{ Local-Cell-InformationItemIE-AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID      id-Local-Cell-InformationItem-AuditRsp      CRITICALITY      ignore      TYPE
Local-Cell-InformationItem-AuditRsp      PRESENCE      mandatory}
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-ID      Local-Cell-ID,
    dl-or-global-capacityCredit      DL-or-Global-CapacityCredit,
    ul-capacityCredit      UL-CapacityCredit      OPTIONAL,
    commonChannelsCapacityConsumptionLaw      CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw      DedicatedChannelsCapacityConsumptionLaw,
    maximumDL-PowerCapability      MaximumDL-PowerCapability      OPTIONAL,
    minSpreadingFactor      MinSpreadingFactor      OPTIONAL,
    minimumDL-PowerCapability      MinimumDL-PowerCapability      OPTIONAL,
    local-Cell-Group-ID      Local-Cell-ID      OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer .{{ Local-Cell-
InformationItem-AuditRsp-ExtIEs}}      OPTIONAL,
    ...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-ReferenceClockAvailability      CRITICALITY      ignore      EXTENSION
ReferenceClockAvailability      PRESENCE      optional },
    ...
}

```

```

Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF
ProtocolIE-Single-Container ({{ Local-Cell-Group-InformationItemIE-AuditRsp }})

Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  ( ID      id-Local-Cell-Group-InformationItem-AuditRsp      CRITICALITY      ignore
  TYPE      Local-Cell-Group-InformationItem-AuditRsp        PRESENCE          mandatory)
}

Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
  local-Cell-Group-ID                Local-Cell-ID,
  dl-or-global-capacityCredit        DL-or-Global-CapacityCredit,
  ul-capacityCredit                  UL-CapacityCredit                OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
  iE-Extensions                      ProtocolExtensionContainer ({{ Local-Cell-Group-
  InformationItem-AuditRsp-ExtIEs}})  OPTIONAL,
  ...
}

Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- AUDIT FAILURE
--
-- *****

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

AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
  ( ID      id-Cause                CRITICALITY      ignore      TYPE      Cause
  PRESENCE      mandatory )|
  ( ID      id-CriticalityDiagnostics CRITICALITY      ignore      TYPE      optional),
  ...
}

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

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  ( ID      id-MeasurementID                CRITICALITY reject TYPE      MeasurementID
  PRESENCE      mandatory )|
  ( ID      id-CommonMeasurementObjectType-CM-Rqst CRITICALITY reject TYPE      CommonMeasurementObjectType-CM-Rqst
  PRESENCE      mandatory )|
  ( ID      id-CommonMeasurementType          CRITICALITY reject TYPE      CommonMeasurementType PRESENCE mandatory)|
  ( ID      id-MeasurementFilterCoefficient    CRITICALITY reject TYPE      MeasurementFilterCoefficient
  PRESENCE      optional )|
  ( ID      id-ReportCharacteristics          CRITICALITY reject TYPE      ReportCharacteristics PRESENCE mandatory)|
  ( ID      id-SFNReportingIndicator          CRITICALITY reject TYPE      FNReportingIndicator PRESENCE mandatory )|
}

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```

    { ID id-SFN
      },
      ...
    }

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-CommonMeasurementAccuracy
    CRITICALITY reject
    EXTENSION
    CommonMeasurementAccuracy PRESENCE optional},
  ...
}

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
  cell Cell-CM-Rqst,
  RACH RACH-CM-Rqst,
  CPCH CPCH-CM-Rqst,
  ...
}

Cell-CM-Rqst ::= SEQUENCE {
  c-ID C-ID,
  timeSlot TimeSlot OPTIONAL,
  -- Applicable to 3.84Mcps TDD only
  iE-Extensions ProtocolExtensionContainer ( ( CellItem-CM-Rqst-ExtIEs) )
  OPTIONAL,
  ...
}

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TimeSlotLCR-CM-Rqst
    CRITICALITY reject
    EXTENSION TimeSlotLCR
    PRESENCE
    optional }|
  -- Applicable to 1.28Mcps TDD only
  {ID id-NeighbouringCellMeasurementInformation
    CRITICALITY ignore
    EXTENSION
    NeighbouringCellMeasurementInformation
    PRESENCE optional}|
  {ID id-UARFCNforNt
    CRITICALITY reject
    EXTENSION UARFCN
    PRESENCE optional},
  -- Mandatory for 1.28Mcps TDD when using multiple frequencies
  ...
}

RACH-CM-Rqst ::= SEQUENCE {
  c-ID C-ID,
  commonTransportChannelID CommonTransportChannelID,
  iE-Extensions ProtocolExtensionContainer ( ( RACHItem-CM-Rqst-ExtIEs) )
  OPTIONAL,
  ...
}

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-CM-Rqst ::= SEQUENCE {
  c-ID C-ID,
  commonTransportChannelID CommonTransportChannelID,
  spreadingfactor MinUL-ChannelisationCodeLength OPTIONAL,
  iE-Extensions ProtocolExtensionContainer ( ( CPCHItem-CM-Rqst-ExtIEs) )
  OPTIONAL,
  ...
}

CPCHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION RESPONSE
--
-- *****

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

```



```

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID                CRITICALITY ignore      TYPE
    MeasurementID PRESENCE mandatory }|
  { ID      id-CommonMeasurementObjectType-CM-Rsp
    CRITICALITY ignore      TYPE
    CommonMeasurementObjectType-CM-Rsp
    PRESENCE optional }|
  { ID      id-SFN                          CRITICALITY ignore      TYPE      SFN
    PRESENCE optional }|
  { ID      id-CriticalityDiagnostics        CRITICALITY ignore      TYPE
    CriticalityDiagnostics PRESENCE optional},
  ...
}

CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-CommonMeasurementAccuracy          CRITICALITY ignore      EXTENSION
  CommonMeasurementAccuracy PRESENCE optional},
  ...
}

CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
  cell          Cell-CM-Rsp,
  RACH          RACH-CM-Rsp,
  CPCH          CPCH-CM-Rsp,
  ...
}

Cell-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions               ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs } }
  OPTIONAL,
  ...
}

CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions               ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs } }
  OPTIONAL,
  ...
}

RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions               ProtocolExtensionContainer { { CPCHItem-CM-Rsp-ExtIEs } }
  OPTIONAL,
  ...
}

CPCHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION FAILURE
--
-- *****

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

CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID                CRITICALITY ignore      TYPE      MeasurementID

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```

        PRESENCE mandatory )|
    { ID id-Cause CRITICALITY ignore TYPE Cause
    { ID id-CriticalityDiagnostics PRESENCE mandatory )| TYPE
    CriticalityDiagnostics PRESENCE optional },
    ...
}

CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

-- *****
--
-- COMMON MEASUREMENT REPORT
--
-- *****

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

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= (
    { ID id-MeasurementID CRITICALITY ignore TYPE
    MeasurementID PRESENCE mandatory }|
    { ID id-CommonMeasurementObjectType-CM-Rpirt CRITICALITY ignore TYPE
    CommonMeasurementObjectType-CM-Rpirt
    PRESENCE mandatory }|
    { ID id-SFN CRITICALITY ignore TYPE SFN
    PRESENCE optional },
    ...
)

CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

CommonMeasurementObjectType-CM-Rpirt ::= CHOICE (
    cell Cell-CM-Rpirt,
    RACH RACH-CM-Rpirt,
    CPCH CPCH-CM-Rpirt,
    ...
)

Cell-CM-Rpirt ::= SEQUENCE (
    commonMeasurementValueInformation CommonMeasurementValueInformation,
    iE-Extensions ProtocolExtensionContainer {{ CellItem-CM-Rpirt-ExtIEs }}
    OPTIONAL,
    ...
)

CellItem-CM-Rpirt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

RACH-CM-Rpirt ::= SEQUENCE (
    commonMeasurementValueInformation CommonMeasurementValueInformation,
    iE-Extensions ProtocolExtensionContainer {{ RACHItem-CM-Rpirt-ExtIEs }}
    OPTIONAL,
    ...
)

RACHItem-CM-Rpirt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

CPCH-CM-Rpirt ::= SEQUENCE (
    commonMeasurementValueInformation CommonMeasurementValueInformation,
    iE-Extensions ProtocolExtensionContainer {{ CPCHItem-CM-Rpirt-ExtIEs }}
    OPTIONAL,
    ...
)

```

```

    ...
}

CPCHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON MEASUREMENT TERMINATION REQUEST
--
-- *****

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

CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-MeasurementID          CRITICALITY ignore          TYPE    MeasurementID
    PRESENCE mandatory},
    ...
}

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

-- *****
--
-- COMMON MEASUREMENT FAILURE INDICATION
--
-- *****

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

CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-MeasurementID          CRITICALITY ignore          TYPE    MeasurementID
    PRESENCE mandatory }|
    { ID    id-Cause                  CRITICALITY ignore          TYPE    Cause
    PRESENCE mandatory }},
    ...
}

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

-- *****
--
-- CELL SETUP REQUEST FDD
--
-- *****

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

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-Local-Cell-ID          CRITICALITY reject
    TYPE    Local-Cell-ID            PRESENCE mandatory }|
    { ID    id-C-ID                  CRITICALITY reject
    TYPE    C-ID                     PRESENCE mandatory }|
    { ID    id-ConfigurationGenerationID CRITICALITY reject
    TYPE    ConfigurationGenerationID PRESENCE mandatory }|
}

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```

    { ID id-T-Cell CRITICALITY reject
TYPE T-Cell PRESENCE mandatory }|
    { ID id-UARFCNforNu CRITICALITY reject
TYPE UARFCN PRESENCE mandatory }|
    { ID id-UARFCNforNd CRITICALITY reject
TYPE UARFCN PRESENCE mandatory }|
    { ID id-MaximumTransmissionPower CRITICALITY reject
TYPE MaximumTransmissionPower PRESENCE mandatory }|
    { ID id-Closed-Loop-Timing-Adjustment-Mode CRITICALITY reject
TYPE Closedlooptimingadjustmentmode PRESENCE optional }|
    { ID id-PrimaryScramblingCode CRITICALITY reject
TYPE PrimaryScramblingCode PRESENCE mandatory }|
    { ID id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY reject
TYPE Synchronisation-Configuration-Cell-SetupRqst PRESENCE mandatory }|
    { ID id-DL-TPC-Pattern01Count CRITICALITY reject
TYPE DL-TPC-Pattern01Count PRESENCE mandatory }|
    { ID id-PrimarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject
TYPE PrimarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }|
    { ID id-SecondarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject
TYPE SecondarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }|
    { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD CRITICALITY reject
TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD PRESENCE mandatory }|
    { ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD CRITICALITY reject
TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD PRESENCE optional }|
    { ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD CRITICALITY reject
TYPE PrimaryCCPCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }|
    { ID id-Limited-power-increase-information-Cell-SetupRqstFDD CRITICALITY reject
TYPE Limited-power-increase-information-Cell-SetupRqstFDD PRESENCE mandatory },
    ...
}

CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    (ID id-IPDLParameter-Information-Cell-SetupRqstFDD CRITICALITY reject
EXTENSION IPDLParameter-Information-Cell-SetupRqstFDD PRESENCE optional ),
    ...
}

Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE {
    n-INSYNC-IND N-INSYNC-IND,
    n-OUTSYNC-IND N-OUTSYNC-IND,
    t-RLFFAILURE T-RLFFAILURE,
    iE-Extensions ProtocolExtensionContainer ( { Synchronisation-Configuration-Cell-
SetupRqst-ExtIEs} ) OPTIONAL,
    ...
}

Synchronisation-Configuration-Cell-SetupRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    primarySCH-Power DL-Power,
    tSTD-Indicator TSTD-Indicator,
    iE-Extensions ProtocolExtensionContainer ( { PrimarySCH-Information-
Cell-SetupRqstFDD-ExtIEs} ) OPTIONAL,
    ...
}

PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    secondarySCH-Power DL-Power,
    tSTD-Indicator TSTD-Indicator,
    iE-Extensions ProtocolExtensionContainer ( { SecondarySCH-Information-
Cell-SetupRqstFDD-ExtIEs} ) OPTIONAL,
    ...
}

SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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```

PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    primaryCPICH-Power                PrimaryCPICH-Power,
    transmitDiversityIndicator        TransmitDiversityIndicator,
    iE-Extensions                     ProtocolExtensionContainer { ( PrimaryCPICH-Information-
    ...                               Cell-SetupRqstFDD-ExtIEs) }      OPTIONAL,
}

PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
ProtocolIE-Single-Container({ SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD })

SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD      CRITICALITY    reject
TYPE      SecondaryCPICH-InformationItem-Cell-SetupRqstFDD          PRESENCE      mandatory}
}

SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    dl-ScramblingCode                DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    secondaryCPICH-Power              DL-Power,
    transmitDiversityIndicator        TransmitDiversityIndicator,
    iE-Extensions                     ProtocolExtensionContainer ( { SecondaryCPICH-
    ...                               InformationItem-Cell-SetupRqstFDD-ExtIEs) }      OPTIONAL,
}

SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    BCH-information                  BCH-Information-Cell-SetupRqstFDD,
    sTTD-Indicator                   STTD-Indicator,
    iE-Extensions                     ProtocolExtensionContainer ( { PrimaryCCPCH-Information-
    ...                               Cell-SetupRqstFDD-ExtIEs) }      OPTIONAL,
}

PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    bCH-Power                         DL-Power,
    iE-Extensions                     ProtocolExtensionContainer ( { BCH-Information-Cell-
    ...                               SetupRqstFDD-ExtIEs) }      OPTIONAL,
}

BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
    powerRaiseLimit                  PowerRaiseLimit,
    dlPowerAveragingWindowSize        DLPowerAveragingWindowSize,
    iE-Extensions                     ProtocolExtensionContainer ( { Limited-power-increase-
    ...                               information-Cell-SetupRqstFDD-ExtIEs) }      OPTIONAL,
}

Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IPDLParameter-Information-Cell-SetupRqstFDD ::= SEQUENCE {

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    iPDL-FDD-Parameters
    iPDL-Indicator
    iE-Extensions
    ...
}

IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- CELL SETUP REQUEST TDD
--
-- *****

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

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Local-Cell-ID          CRITICALITY  reject
    TYPE      Local-Cell-ID             PRESENCE      mandatory  }|
    { ID      id-C-ID                   CRITICALITY  reject
    TYPE      C-ID                       PRESENCE      mandatory  }|
    { ID      id-ConfigurationGenerationID CRITICALITY  reject
    TYPE      ConfigurationGenerationID  PRESENCE      mandatory  }|
    { ID      id-UARFCNforNt             CRITICALITY  reject
    TYPE      UARFCN                     PRESENCE      mandatory  }|
    -- For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE
    indicates the frequency of Primary Carrier
    { ID      id-CellParameterID         CRITICALITY  reject
    TYPE      CellParameterID            PRESENCE      mandatory  }|
    { ID      id-MaximumTransmissionPower CRITICALITY  reject
    TYPE      MaximumTransmissionPower   PRESENCE      mandatory  }|
    { ID      id-TransmissionDiversityApplied CRITICALITY  reject
    TYPE      TransmissionDiversityApplied PRESENCE      mandatory  }|
    { ID      id-SyncCase                 CRITICALITY  reject
    TYPE      SyncCase                   PRESENCE      mandatory  }|
    { ID      id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY  reject
    TYPE      Synchronisation-Configuration-Cell-SetupRqst PRESENCE      mandatory  }|
    { ID      id-DPCHConstant             CRITICALITY  reject
    TYPE      ConstantValue              PRESENCE      mandatory  }|
    -- This IE shall be ignored by the Node B.
    { ID      id-PUSCHConstant            CRITICALITY  reject
    TYPE      ConstantValue              PRESENCE      mandatory  }|
    -- This IE shall be ignored by the Node B.
    { ID      id-PRACHConstant            CRITICALITY  reject
    TYPE      ConstantValue              PRESENCE      mandatory  }|
    -- This IE shall be ignored by the Node B.
    { ID      id-TimingAdvanceApplied     CRITICALITY  reject
    TYPE      TimingAdvanceApplied       PRESENCE      mandatory  }|
    { ID      id-SCH-Information-Cell-SetupRqstTDD CRITICALITY  reject
    TYPE      SCH-Information-Cell-SetupRqstTDD PRESENCE      optional   }|
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    { ID      id-PCCPCH-Information-Cell-SetupRqstTDD CRITICALITY  reject
    TYPE      PCCPCH-Information-Cell-SetupRqstTDD PRESENCE      optional   }|
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    { ID      id-TimeSlotConfigurationList-Cell-SetupRqstTDD CRITICALITY  reject
    TYPE      TimeSlotConfigurationList-Cell-SetupRqstTDD PRESENCE      optional   },
    ...
}

CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD CRITICALITY  reject
    EXTENSION TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD PRESENCE      optional   }|
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD. If multiple frequencies exist
    within the cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary Carrier
    { ID      id-PCCPCH-LCR-Information-Cell-SetupRqstTDD CRITICALITY  reject
    EXTENSION PCCPCH-LCR-Information-Cell-SetupRqstTDD PRESENCE      optional   }|
}

```

```

-- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  { ID id-DwPCH-LCR-Information-Cell-SetupRqstTDD          CRITICALITY reject
    EXTENSION DwPCH-LCR-Information-Cell-SetupRqstTDD     PRESENCE optional }|
-- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  { ID id-ReferenceSFNoffset          CRITICALITY ignore    EXTENSION ReferenceSFNoffset
    PRESENCE optional }|
  { ID id-IPDLParameter-Information-Cell-SetupRqstTDD     CRITICALITY reject
    EXTENSION IPDLParameter-Information-Cell-SetupRqstTDD PRESENCE optional }|
-- Applicable to 3.84Mcps TDD only
  { ID id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD CRITICALITY reject
    EXTENSION Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD PRESENCE optional },
-- Mandatory for 1.28Mcps TDD when using multiple frequencies
  ...
}

SCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  syncCaseIndicator                SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
  sCH-Power                        DL-Power,
  tSTD-Indicator                   TSTD-Indicator,
  iE-Extensions                    ProtocolExtensionContainer ( { SCH-Information-Cell-
                                     SetupRqstTDD-ExtIEs} )    OPTIONAL,
  ...
}

SCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SyncCaseIndicator-Cell-SetupRqstTDD-PSCH ::= ProtocolIE-Single-Container ( { SyncCaseIndicatorIE-
Cell-SetupRqstTDD-PSCH } )

SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH NBAP-PROTOCOL-IES ::= {
  { ID id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH CRITICALITY reject TYPE
    SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH PRESENCE mandatory }
}

SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH ::= CHOICE {
  case1          Case1-Cell-SetupRqstTDD,
  case2          Case2-Cell-SetupRqstTDD,
  ...
}

Case1-Cell-SetupRqstTDD ::= SEQUENCE {
  timeSlot          TimeSlot,
  iE-Extensions     ProtocolExtensionContainer ( { Case1Item-Cell-SetupRqstTDD-
ExtIEs} )    OPTIONAL,
  ...
}

Case1Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Case2-Cell-SetupRqstTDD ::= SEQUENCE {
  sCH-TimeSlot          SCH-TimeSlot,
  iE-Extensions         ProtocolExtensionContainer ( { Case2Item-Cell-SetupRqstTDD-
ExtIEs} )    OPTIONAL,
  ...
}

Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
  repetitionPeriod                 RepetitionPeriod,
  repetitionLength                 RepetitionLength,
  pCCPCH-Power                    PCCPCH-Power,
  sCTD-Indicator                   SCTD-Indicator,
  iE-Extensions                    ProtocolExtensionContainer ( { PCCPCH-Information-Cell-
SetupRqstTDD-ExtIEs} )    OPTIONAL,
}

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```

}
...
PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

TimeSlotConfigurationList-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..15)) OF
TimeSlotConfigurationItem-Cell-SetupRqstTDD

TimeSlotConfigurationItem-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    timeSlotStatus          TimeSlotStatus,
    timeSlotDirection       TimeSlotDirection,
    iE-Extensions           ProtocolExtensionContainer
                           { { TimeSlotConfigurationItem-Cell-SetupRqstTDD-
                               ExtIEs} } OPTIONAL,
    ...
}

TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD

TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlotLCR             TimeSlotLCR,
    timeSlotStatus          TimeSlotStatus,
    timeSlotDirection       TimeSlotDirection,
    iE-Extensions           ProtocolExtensionContainer
                           { { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-
                               ExtIEs} } OPTIONAL,
    ...
}

TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

PCCPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod         RepetitionPeriod,
    repetitionLength         RepetitionLength,
    pCCPCH-Power             PCCPCH-Power,
    sCTD-Indicator           SCTD-Indicator,
    tSTD-Indicator           TSTD-Indicator,
    iE-Extensions           ProtocolExtensionContainer { { PCCPCH-LCR-Information-
        Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

PCCPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

DwPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId CommonPhysicalChannelID,
    tSTD-Indicator          TSTD-Indicator,
    dwPCH-Power            DwPCH-Power,
    iE-Extensions          ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-
        SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

IPDLParameter-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    iPDL-TDD-Parameters     IPDL-TDD-Parameters,
    iPDL-Indicator          IPDL-Indicator,
    iE-Extensions           ProtocolExtensionContainer { { IPDLParameter-
}

```



```

Information-Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE {
    uARFCN                                UARFCN,
    -- This IE indicates the frequency of Secondary Carrier
    timeSlotConfigurationList-LCR-Cell-SetupRqstTDD    TimeSlotConfigurationList-LCR-Cell-
SetupRqstTDD,
    -- This IE indicates the Time Slot configuration of Secondary Carrier
    iE-Extensions                          ProtocolExtensionContainer { ( Cell-Frequency-Item-LCR-
MulFreq-Cell-SetupRqstTDD-ExtIEs) }    OPTIONAL,
...
}
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- CELL SETUP RESPONSE
--
-- *****
CellSetupResponse ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {(CellSetupResponse-IEs)},
    protocolExtensions          ProtocolExtensionContainer {(CellSetupResponse-Extensions)}
                                OPTIONAL,
    ...
}
CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics    CRITICALITY    ignore        TYPE
    CriticalityDiagnostics    PRESENCE    optional},
    ...
}
CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- CELL SETUP FAILURE
--
-- *****
CellSetupFailure ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {(CellSetupFailure-IEs)},
    protocolExtensions          ProtocolExtensionContainer {(CellSetupFailure-Extensions)}
                                OPTIONAL,
    ...
}
CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-Cause                CRITICALITY    ignore
    TYPE      Cause                    PRESENCE      mandatory }|
    { ID      id-CriticalityDiagnostics    CRITICALITY    ignore
    TYPE                                            CriticalityDiagnostics    PRESENCE optional },
    ...
}
CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

-- *****
--
-- CELL RECONFIGURATION REQUEST FDD
--
-- *****

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

CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID                CRITICALITY reject
    TYPE C-ID                    PRESENCE mandatory }},
    { ID id-ConfigurationGenerationID
    TYPE ConfigurationGenerationID PRESENCE mandatory }},
    { ID id-MaximumTransmissionPower
    TYPE MaximumTransmissionPower PRESENCE optional }},
    { ID id-Synchronisation-Configuration-Cell-ReconfRqst
    TYPE Synchronisation-Configuration-Cell-ReconfRqst PRESENCE optional }},
    { ID id-PrimarySCH-Information-Cell-ReconfRqstFDD
    TYPE PrimarySCH-Information-Cell-ReconfRqstFDD PRESENCE optional }},
    { ID id-SecondarySCH-Information-Cell-ReconfRqstFDD
    TYPE SecondarySCH-Information-Cell-ReconfRqstFDD PRESENCE optional }},
    { ID id-PrimaryCPICH-Information-Cell-ReconfRqstFDD
    TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD PRESENCE optional }},
    { ID id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD
    TYPE SecondaryCPICH-InformationList-Cell-ReconfRqstFDD PRESENCE optional }},
    { ID id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
    TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD PRESENCE optional }},
    ...
}

CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-IPDLParameter-Information-Cell-ReconfRqstFDD
    EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
    CRITICALITY reject
    PRESENCE optional }},
    ...
}

Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
    n-INSYNC-IND          N-INSYNC-IND,
    n-OUTSYNC-IND         N-OUTSYNC-IND,
    t-RLFFAILURE          T-RLFFAILURE,
    iE-Extensions         ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-
        ReconfRqst-ExtIEs} }
        OPTIONAL,
    ...
}

Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    primarySCH-Power        DL-Power,
    iE-Extensions           ProtocolExtensionContainer { { PrimarySCH-Information-
        Cell-ReconfRqstFDD-ExtIEs} }
        OPTIONAL,
    ...
}

PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    secondarySCH-Power      DL-Power,
    iE-Extensions           ProtocolExtensionContainer { { SecondarySCH-Information-
        Cell-ReconfRqstFDD-ExtIEs} }
        OPTIONAL,
    ...
}

```

```

SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    primaryCPICH-Power           PrimaryCPICH-Power,
    iE-Extensions                ProtocolExtensionContainer { { PrimaryCPICH-Information-
                                Cell-ReconfRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF
ProtocolIE-Single-Container({ SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD })

SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD      CRITICALITY      reject
    TYPE     SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD        PRESENCE        mandatory)
}

SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    secondaryCPICH-Power         DL-Power,
    iE-Extensions                ProtocolExtensionContainer { { SecondaryCPICH-
                                InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
                                OPTIONAL,
    ...
}

SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimaryCCPCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    bCH-information              BCH-information-Cell-ReconfRqstFDD,
    iE-Extensions                ProtocolExtensionContainer { { PrimaryCCPCH-Information-
                                Cell-ReconfRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    bCH-Power                    DL-Power,
    iE-Extensions                ProtocolExtensionContainer { { BCH-information-Cell-
                                ReconfRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IPDLParameter-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    iPDL-FDD-Parameters          IPDL-FDD-Parameters      OPTIONAL,
    iPDL-Indicator               IPDL-Indicator,
    iE-Extensions                ProtocolExtensionContainer { { IPDLParameter-
                                Information-Cell-ReconfRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
    EXTENSION TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
    CRITICALITY reject
    PRESENCE optional}| --
    Applicable to 1.28Mcps TDD only. If multiple frequencies exist within the cell indicated by C-ID,
    this IE indicates the Time Slot reconfiguration of Primary Carrier
    { ID      id-DwPCH-LCR-Information-Cell-ReconfRqstTDD
    EXTENSION DwPCH-LCR-Information-Cell-ReconfRqstTDD
    CRITICALITY reject
    PRESENCE optional}| -- Applicable to 1.28Mcps TDD
    only
    { ID      id-IPDLParameter-Information-Cell-ReconfRqstTDD
    EXTENSION IPDLParameter-Information-Cell-ReconfRqstTDD
    CRITICALITY reject
    PRESENCE optional }| --
    Applicable to 3.84Mcps TDD only
    { ID id-URAFNCN-Adjustment
    CRITICALITY reject
    EXTENSION URAFNCN-Adjustment
    PRESENCE optional}, -- Applicable to 1.28Mcps TDD when using multiple frequencies
    ...
}

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

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

PCCPCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    pCCPCH-Power                 PCCPCH-Power,
    iE-Extensions                 ProtocolExtensionContainer ( { PCCPCH-Information-Cell-
    ReconfRqstTDD-ExtIEs } )     OPTIONAL,
    ...
}

```

```

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

TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF
TimeSlotConfigurationItem-Cell-ReconfRqstTDD

TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    timeSlotStatus          TimeSlotStatus,
    timeSlotDirection       TimeSlotDirection,
    iE-Extensions           ProtocolExtensionContainer
                            { { TimeSlotConfigurationItem-Cell-ReconfRqstTDD-
                              ExtIEs} }    OPTIONAL,
    ...
}

TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..7)) OF
TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD

TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (
    timeSlotLCR            TimeSlotLCR,
    timeSlotStatus         TimeSlotStatus,
    timeSlotDirection      TimeSlotDirection,
    iE-Extensions         ProtocolExtensionContainer
                            { { TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-
                              ExtIEs} }    OPTIONAL,
    ...
}

TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DwPCH-LCR-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId CommonPhysicalChannelID,
    dwPCH-Power             DwPCH-Power,
    iE-Extensions           ProtocolExtensionContainer { { DwPCH-LCR-Information-
                              Cell-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IPDLParameter-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    iPDL-TDD-Parameters     IPDL-TDD-Parameters    OPTIONAL,
    iPDL-Indicator          IPDL-Indicator,
    iE-Extensions           ProtocolExtensionContainer { { IPDLParameter-
                              Information-Cell-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

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

URAFNCN-Adjustment ::= CHOICE {
    cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD      Cell-Frequency-Add-LCR-MulFreq-
Cell-ReconfRqstTDD,
    cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD Cell-Frequency-ModifyList-LCR-
MulFreq-Cell-ReconfRqstTDD,
    cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD   Cell-Frequency-Delete-LCR-
MulFreq-Cell-ReconfRqstTDD,
    ...
}

Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE (
    uARFCN                UARFCN,
    -- This IE indicates the frequency of Secondary Carrier to add

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timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD      TimeSlotConfigurationList-LCR-Cell-
ReconfRqstTDD,
-- This IE indicates the Time Slot configuration of Secondary Carrier to add
  iE-Extensions      ProtocolExtensionContainer { ( Cell-Frequency-Add-LCR-
MulFreq-Cell-ReconfRqstTDD-ExtIEs) }      OPTIONAL,
  ...
}

Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-
1)) OF Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD
Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE (
  uARFCN      UARFCN,
  -- This IE indicates the frequency of Secondary Carrier to modify
  timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD      TimeSlotConfigurationList-LCR-Cell-
ReconfRqstTDD,
  -- This IE indicates the Time Slot reconfiguration of Secondary Carrier
  iE-Extensions      ProtocolExtensionContainer { ( Cell-Frequency-
ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs) }      OPTIONAL,
  ...
)

Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE {
  uARFCN      UARFCN, -- This IE indicates the
frequency of Secondary Carrier to delete
  iE-Extensions      ProtocolExtensionContainer { ( Cell-Frequency-Delete-
LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs) }      OPTIONAL,
  ...
}

Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- CELL RECONFIGURATION RESPONSE
--
-- *****

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

CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
  ( ID      id-CriticalityDiagnostics      CRITICALITY      ignore      TYPE
CriticalityDiagnostics      PRESENCE      optional),
  ...
}

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

-- *****
--
-- CELL RECONFIGURATION FAILURE
--
-- *****

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

```

```

)
CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-Cause
    CRITICALITY    ignore
    PRESENCE    mandatory } |
  { ID    id-CriticalityDiagnostics
    CRITICALITY    ignore
    CriticalityDiagnostics
    PRESENCE    optional},
  ...
}
CellReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
-- *****
--
-- CELL DELETION REQUEST
--
-- *****

CellDeletionRequest ::= SEQUENCE {
  protocolIEs      ProtocolIE-Container    {{CellDeletionRequest-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellDeletionRequest-Extensions}}
  OPTIONAL,
  ...
}
CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-C-ID
    CRITICALITY    reject
    TYPE    C-ID
    PRESENCE    mandatory},
  ...
}
CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
-- *****
--
-- CELL DELETION RESPONSE
--
-- *****

CellDeletionResponse ::= SEQUENCE {
  protocolIEs      ProtocolIE-Container    {{CellDeletionResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}
  OPTIONAL,
  ...
}
CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-CriticalityDiagnostics
    CRITICALITY    ignore
    CriticalityDiagnostics
    PRESENCE    optional},
  ...
}
CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

ResourceStatusIndication ::= SEQUENCE {
  protocolIEs      ProtocolIE-Container    {{ResourceStatusIndication-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}}
  OPTIONAL,
  ...
}
ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-IndicationType-ResourceStatusInd
    CRITICALITY    ignore
    TYPE

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IndicationType-ResourceStatusInd PRESENCE
mandatory )|
Cause CRITICALITY ignore TYPE PRESENCE
optional },
...
)

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

IndicationType-ResourceStatusInd ::= CHOICE {
no-Failure No-Failure-ResourceStatusInd,
serviceImpacting ServiceImpacting-ResourceStatusInd,
...
}

No-Failure-ResourceStatusInd ::= SEQUENCE {
local-Cell-InformationList Local-Cell-InformationList-ResourceStatusInd,
local-Cell-Group-InformationList Local-Cell-Group-InformationList-ResourceStatusInd
OPTIONAL,
iE-Extensions ProtocolExtensionContainer ( { No-FailureItem-
ResourceStatusInd-ExtIEs } ) OPTIONAL,
...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF
ProtocolIE-Single-Container ( { Local-Cell-InformationItemIE-ResourceStatusInd } )

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-
InformationItem-ResourceStatusInd PRESENCE mandatory }
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE (
local-CellID Local-Cell-ID,
addorDeleteIndicator AddorDeleteIndicator,
dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
ul-capacityCredit UL-CapacityCredit OPTIONAL,
commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
maximumDL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
minSpreadingFactor MinSpreadingFactor OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
local-Cell-Group-ID Local-Cell-ID OPTIONAL,
iE-Extensions ProtocolExtensionContainer ( { Local-Cell-
InformationItem-ResourceStatusInd-ExtIEs } ) OPTIONAL,
...
)

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION
ReferenceClockAvailability PRESENCE optional },
-- This IE shall be present if AddorDeleteIndicator IE is set to "add" and the Local Cell is
related to a TDD cell
...
}

Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF
ProtocolIE-Single-Container ( { Local-Cell-Group-InformationItemIE-ResourceStatusInd } )

Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-
Group-InformationItem-ResourceStatusInd PRESENCE mandatory }
}

```



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)

Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
    local-Cell-Group-ID                Local-Cell-ID,
    dl-or-global-capacityCredit        DL-or-Global-CapacityCredit,
    ul-capacityCredit                  UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                      ProtocolExtensionContainer { { Local-Cell-Group-
InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList          Local-Cell-InformationList2-ResourceStatusInd OPTIONAL,
    local-Cell-Group-InformationList    Local-Cell-Group-InformationList2-ResourceStatusInd
OPTIONAL,
    cCP-InformationList                 CCP-InformationList-ResourceStatusInd          OPTIONAL,
    cell-InformationList                 Cell-InformationList-ResourceStatusInd          OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { ServiceImpactingItem-
ResourceStatusInd-ExtIEs} }          OPTIONAL,
    ...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF
ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= (
    { ID id-Local-Cell-InformationItem2-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-
InformationItem2-ResourceStatusInd    PRESENCE mandatory }
)

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
    local-Cell-ID                Local-Cell-ID,
    dl-or-global-capacityCredit    DL-or-Global-CapacityCredit    OPTIONAL,
    ul-capacityCredit              UL-CapacityCredit              OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
    maximum-DL-PowerCapability     MaximumDL-PowerCapability       OPTIONAL,
    minSpreadingFactor             MinSpreadingFactor             OPTIONAL,
    minimumDL-PowerCapability       MinimumDL-PowerCapability       OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { Local-Cell-
InformationItem2-ResourceStatusInd-ExtIEs} }    OPTIONAL,
    ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ReferenceClockAvailability    CRITICALITY ignore    EXTENSION
ReferenceClockAvailability    PRESENCE    optional },
    ...
}

Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF
ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE2-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= (
    { ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd    CRITICALITY ignore    TYPE Local-
Cell-Group-InformationItem2-ResourceStatusInd    PRESENCE mandatory }
)

Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE (
    local-Cell-Group-ID                Local-Cell-ID,
    dl-or-global-capacityCredit        DL-or-Global-CapacityCredit    OPTIONAL,
    ul-capacityCredit                  UL-CapacityCredit              OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { { Local-Cell-Group-

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InformationItem2-ResourceStatusInd-ExtIEs} } OPTIONAL,
...
}
Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-
Container ({ CCP-InformationItemIE-ResourceStatusInd })
CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-
ResourceStatusInd PRESENCE mandatory }
}
CCP-InformationItem-ResourceStatusInd ::= SEQUENCE (
communicationControlPortID CommunicationControlPortID,
resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,
iE-Extensions ProtocolExtensionContainer ({ CCP-InformationItem-
ResourceStatusInd-ExtIEs}) } OPTIONAL,
...
)
CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-
Container ({ Cell-InformationItemIE-ResourceStatusInd })
Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Cell-InformationItem-
ResourceStatusInd PRESENCE mandatory }
}
Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
c-ID C-ID,
resourceOperationalState ResourceOperationalState OPTIONAL,
availabilityStatus AvailabilityStatus OPTIONAL,
primary-SCH-Information P-SCH-Information-ResourceStatusInd OPTIONAL,
-- FDD only
secondary-SCH-Information S-SCH-Information-ResourceStatusInd OPTIONAL,
-- FDD only
primary-CPICH-Information P-CPICH-Information-ResourceStatusInd OPTIONAL,
-- FDD only
secondary-CPICH-Information S-CPICH-InformationList-ResourceStatusInd OPTIONAL,
-- FDD only
primary-CCPCH-Information P-CCPCH-Information-ResourceStatusInd OPTIONAL,
bCH-Information BCH-Information-ResourceStatusInd OPTIONAL,
secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd OPTIONAL,
pCH-Information PCH-Information-ResourceStatusInd OPTIONAL,
pICH-Information PICH-Information-ResourceStatusInd OPTIONAL,
fACH-InformationList FACH-InformationList-ResourceStatusInd OPTIONAL,
pRACH-InformationList PRACH-InformationList-ResourceStatusInd OPTIONAL,
rACH-InformationList RACH-InformationList-ResourceStatusInd OPTIONAL,
aICH-InformationList AICH-InformationList-ResourceStatusInd OPTIONAL,
-- FDD only
pCPCH-InformationList PCPCH-InformationList-ResourceStatusInd OPTIONAL,
-- FDD only
cPCH-InformationList CPCH-InformationList-ResourceStatusInd OPTIONAL,
-- FDD only
aP-AICH-InformationList AP-AICH-InformationList-ResourceStatusInd OPTIONAL,
-- FDD only
cDCA-ICH-InformationList CDCA-ICH-InformationList-ResourceStatusInd OPTIONAL,
-- FDD only
sCH-Information SCH-Information-ResourceStatusInd OPTIONAL,
-- Applicable to 3.84Mcps TDD only
iE-Extensions ProtocolExtensionContainer ({ Cell-InformationItem-
ResourceStatusInd-ExtIEs}) } OPTIONAL,
...
}
Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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    { ID id-FPACH-LCR-InformationList-ResourceStatusInd      CRITICALITY ignore      EXTENSION
      FPACH-LCR-InformationList-ResourceStatusInd          PRESENCE optional      }| -- Applicable to
1.28Mcps TDD only
    { ID id-DwPCH-LCR-Information-ResourceStatusInd          CRITICALITY ignore      EXTENSION
      DwPCH-LCR-Information-ResourceStatusInd              PRESENCE optional      }| -- Applicable to
1.28Mcps TDD only
    { ID id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd  CRITICALITY ignore
EXTENSION Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd      PRESENCE
optional      }, -- Applicable to 1.28Mcps TDD when using multiple frequencies

    ...
)

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ P-SCH-InformationIE-
ResourceStatusInd })

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
PRESENCE mandatory }
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ S-SCH-InformationIE-
ResourceStatusInd })

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
PRESENCE mandatory }
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ P-CPICH-InformationIE-
ResourceStatusInd })

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-
Single-Container ({ S-CPICH-InformationItemIE-ResourceStatusInd })

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ P-CCPCH-InformationIE-
ResourceStatusInd })

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ BCH-InformationIE-
ResourceStatusInd })

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
PRESENCE mandatory }
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-
Single-Container ({ S-CCPCH-InformationItemIE-ResourceStatusInd })

S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-
Information      PRESENCE mandatory }
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ PCH-InformationIE-
ResourceStatusInd })

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
PRESENCE mandatory }
}

```

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```
PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ PICH-InformationIE-ResourceStatusInd })

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container ({ FACH-InformationItemIE-ResourceStatusInd })

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
  PRESENCE mandatory }
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container ({ PRACH-InformationItemIE-ResourceStatusInd })

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container ({ RACH-InformationItemIE-ResourceStatusInd })

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
  PRESENCE mandatory }
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container ({ AICH-InformationItemIE-ResourceStatusInd })

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container ({ PCPCH-InformationItemIE-ResourceStatusInd })

PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
  PRESENCE optional }
}

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container ({ CPCH-InformationItemIE-ResourceStatusInd })

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information
  PRESENCE optional }
}

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container ({ AP-AICH-InformationItemIE-ResourceStatusInd })

AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
  PRESENCE optional }
}

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container ({ CDCA-ICH-InformationItemIE-ResourceStatusInd })

CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information
  PRESENCE optional }
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container ({ SCH-InformationIE-ResourceStatusInd })
```

```

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
  PRESENCE mandatory }
}

FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-
Single-Container {{ FPACH-LCR-InformationItemIE-ResourceStatusInd }}

FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-
  Information PRESENCE mandatory }
}

DWPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DWPCH-LCR-InformationIE-
ResourceStatusInd }}

DWPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-DWPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-
  Information PRESENCE mandatory }
}

Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE (SIZE
(1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Cell-Frequency-List-InformationIE-LCR-
MulFreq-ResourceStatusInd }}

Cell-Frequency-List-InformationIE-LCR-MulFreq-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd CRITICALITY ignore
  TYPE Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd PRESENCE mandatory }
}

Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE (
  uARFCN UARFCN,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  cause Cause OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ Cell-Frequency-List-
  InformationItem-LCR-MulFreq-ResourceStatusInd-ExtIEs }}
  OPTIONAL,
  ...
)

Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
{
  ...
}

-- *****
--
-- SYSTEM INFORMATION UPDATE REQUEST
--
-- *****

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

SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID
  PRESENCE mandatory }|
  { ID id-BCCH-ModificationTime CRITICALITY reject TYPE
  BCCH-ModificationTime PRESENCE
  optional }|
  { ID id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY reject TYPE MIB-
  SB-SIB-InformationList-
  SystemInfoUpdateRqst PRESENCE
  mandatory },
  ...
}

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

```

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```

)

MIB-SB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SB-SIB-
InformationItem-SystemInfoUpdateRqst

MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
    iB-Type                IB-Type,
    iB-OC-ID               IB-OC-ID,
    deletionIndicator      DeletionIndicator-SystemInfoUpdate,
    iE-Extensions          ProtocolExtensionContainer ( { MIB-SB-SIB-InformationItem-
                        SystemInfoUpdateRqst-ExtIEs} )    OPTIONAL,
    ...
}

MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

DeletionIndicator-SystemInfoUpdate ::= CHOICE {
    no-Deletion            No-Deletion-SystemInfoUpdate,
    yes-Deletion           NULL
}

No-Deletion-SystemInfoUpdate ::= SEQUENCE {
    sIB-Originator        SIB-Originator                OPTIONAL,
    -- This IE shall be present if the IB-Type IE is set to "SIB"
    iB-SG-REP             IB-SG-REP                    OPTIONAL,
    segmentInformationList SegmentInformationList-SystemInfoUpdate,
    iE-Extensions        ProtocolExtensionContainer { { No-DeletionItem-
                        SystemInfoUpdate-ExtIEs} }    OPTIONAL,
    ...
}

No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Single-Container
({ SegmentInformationListIEs-SystemInfoUpdate })

SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= (
    { ID id-SegmentInformationListIE-SystemInfoUpdate CRITICALITY reject TYPE
SegmentInformationListIE-SystemInfoUpdate PRESENCE mandatory }
)

SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF
SegmentInformationItem-SystemInfoUpdate

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    iB-SG-POS             IB-SG-POS                OPTIONAL,
    segment-Type         Segment-Type              OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set
to "MIB", "SB1" or "SB2"
    iB-SG-DATA           IB-SG-DATA                OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set
to "MIB", "SB1" or "SB2"
    iE-Extensions        ProtocolExtensionContainer { { SegmentInformationItem-
                        SystemInfoUpdate-ExtIEs} }    OPTIONAL,
    ...
}

SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

-- *****
--
-- SYSTEM INFORMATION UPDATE RESPONSE
--
-- *****

SystemInformationUpdateResponse ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{SystemInformationUpdateResponse-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{SystemInformationUpdateResponse-

```

```

        Extensions))          OPTIONAL,
    )
    ...
SystemInformationUpdateResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostics          CRITICALITY ignore          TYPE
      CriticalityDiagnostics                PRESENCE optional},
    ...
}

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

-- *****
--
-- SYSTEM INFORMATION UPDATE FAILURE
--
-- *****

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

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

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

-- *****
--
-- RADIO LINK SETUP REQUEST FDD
--
-- *****

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

RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE
      CRNC-CommunicationContextID                PRESENCE mandatory  }|
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD          CRITICALITY reject          TYPE
      UL-DPCH-Information-RL-SetupRqstFDD        PRESENCE mandatory  }|
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD          CRITICALITY reject          TYPE
      DL-DPCH-Information-RL-SetupRqstFDD        PRESENCE mandatory  }|
    { ID id-DCH-FDD-Information          CRITICALITY reject          TYPE DCH-FDD-
      Information                                PRESENCE mandatory  }|
    { ID id-DSCH-FDD-Information          CRITICALITY reject          TYPE DSCH-FDD-
      Information                                PRESENCE optional  }|
    { ID id-TFCI2-Bearer-Information-RL-SetupRqstFDD          CRITICALITY ignore          TYPE
      TFCI2-Bearer-Information-RL-SetupRqstFDD    PRESENCE optional  }|
    { ID id-RL-InformationList-RL-SetupRqstFDD          CRITICALITY notify          TYPE
      RL-InformationList-RL-SetupRqstFDD          PRESENCE mandatory  }|
    { ID id-Transmission-Gap-Pattern-Sequence-Information          CRITICALITY reject          TYPE
      Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }|
    { ID id-Active-Pattern-Sequence-Information          CRITICALITY reject          TYPE
      Active-Pattern-Sequence-Information          PRESENCE optional },
    ...
}

RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

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```

    { ID id-DSCH-FDD-Common-Information          CRITICALITY ignore  EXTENSION DSCH-FDD-
Common-Information          PRESENCE optional  },
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode                UL-ScramblingCode,
    minUL-ChannelisationCodeLength    MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPDCHs                 MaxNrOfUL-DPDCHs          OPTIONAL,
    -- This IE shall be present if Min UL Channelisation Code length IE is set to 4 --
    ul-PunctureLimit                 PunctureLimit,
    tFCS                              TFCS,
    ul-DPCCH-SlotFormat               UL-DPCCH-SlotFormat,
    ul-SIR-Target                     UL-SIR,
    diversityMode                     DiversityMode,
    sSDT-CellID-Length                SSdT-CellID-Length     OPTIONAL,
    s-FieldLength                     S-FieldLength        OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer ( { UL-DPCH-Information-RL-
SetupRqstFDD-ExtIEs} ) OPTIONAL,
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-DPC-Mode          CRITICALITY reject  EXTENSION  DPC-Mode  PRESENCE optional  },
    ...
}

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                              TFCS,
    dl-DPCH-SlotFormat                DL-DPCH-SlotFormat,
    tFCI-SignallingMode               TFCI-SignallingMode,
    tFCI-Presence                     TFCI-Presence        OPTIONAL,
    -- this IE shall be present if the DL DPCH slot format IE is set to any of the values from 12 to
16 --
    multiplexingPosition              MultiplexingPosition,
    pDSCH-RL-ID                       RL-ID                OPTIONAL,
    -- This IE shall be present if the DSCH Information IE is present --
    pDSCH-CodeMapping                 PDSCH-CodeMapping    OPTIONAL,
    -- This IE shall be present if the DSCH Information IE is present --
    powerOffsetInformation             PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize          FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease               LimitedPowerIncrease,
    innerLoopDLPCStatus               InnerLoopDLPCStatus,
    iE-Extensions                     ProtocolExtensionContainer ( { DL-DPCH-Information-RL-
SetupRqstFDD-ExtIEs} ) OPTIONAL,
    ...
}

DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits                 PowerOffset,
    pO2-ForTPC-Bits                  PowerOffset,
    pO3-ForPilotBits                 PowerOffset,
    iE-Extensions                     ProtocolExtensionContainer ( { PowerOffsetInformation-
RL-SetupRqstFDD-ExtIEs} ) OPTIONAL,
    ...
}

PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCI2-Bearer-Information-RL-SetupRqstFDD ::= SEQUENCE {
    toAWS                             ToAWS,
    toAWE                              ToAWE,
    iE-Extensions                     ProtocolExtensionContainer ( { TFCI2-Bearer-Information-RL-
SetupRqstFDD-ExtIEs} ) OPTIONAL,
    ...
}

TFCI2-Bearer-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

)

RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
  ProtocolIE-Single-Container({ RL-InformationItemIE-RL-SetupRqstFDD })

RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-RL-SetupRqstFDD          CRITICALITY   notify          TYPE
RL-InformationItem-RL-SetupRqstFDD          PRESENCE      mandatory}
}

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  c-ID                 C-ID,
  firstRLS-indicator   FirstRLS-Indicator,
  frameOffset          FrameOffset,
  chipOffset           ChipOffset,
  propagationDelay     PropagationDelay          OPTIONAL,
  diversityControlField DiversityControlField    OPTIONAL,
  -- This IE shall be present if the RL is not the first one in the RL Information IE
  dl-CodeInformation   FDD-DL-CodeInformation,
  initialDL-transmissionPower DL-Power,
  maximumDL-power     DL-Power,
  minimumDL-power     DL-Power,
  sSDT-Cell-Identity  SSDT-Cell-Identity          OPTIONAL,
  transmitDiversityIndicator TransmitDiversityIndicator  OPTIONAL,
  -- This IE shall be present if Diversity Mode IE in UL DPCH Information group is not set to
  "none"
  iE-Extensions       ProtocolExtensionContainer ({ RL-InformationItem-RL-
  SetupRqstFDD-ExtIEs) }          OPTIONAL,
  ...
}

RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-Cell-Identity          PRESENCE
conditional },
  -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE.
  ...
}

-- *****
--
-- RADIO LINK SETUP REQUEST TDD
--
-- *****

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

RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE
CRNC-CommunicationContextID          PRESENCE      mandatory   }|
  { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD          CRITICALITY notify          TYPE
UL-CCTrCH-InformationList-RL-SetupRqstTDD          PRESENCE      optional   }|
  { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD          CRITICALITY notify          TYPE
DL-CCTrCH-InformationList-RL-SetupRqstTDD          PRESENCE      optional   }|
  { ID id-DCH-TDD-Information          CRITICALITY reject          TYPE
DCH-TDD-Information          PRESENCE      optional   }|
  { ID id-DSCH-TDD-Information          CRITICALITY reject          TYPE
DSCH-TDD-Information          PRESENCE      optional   }|
  { ID id-USCH-Information          CRITICALITY reject          TYPE
USCH-Information          PRESENCE      optional   }|
  { ID id-RL-Information-RL-SetupRqstTDD          CRITICALITY reject          TYPE
RL-Information-RL-SetupRqstTDD          PRESENCE      mandatory   },
  ...
}

RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PDSCH-RL-ID          CRITICALITY ignore          EXTENSION RL-ID          PRESENCE
optional },
  ...
}

```

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```

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
  ProtocolIE-Single-Container({ UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD })

UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify TYPE
UL-CCTrCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory}
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TPCS,
  tPCI-Coding TPCI-Coding,
  punctureLimit PunctureLimit,
  ul-DPCH-Information UL-DPCH-Information-RL-SetupRqstTDD OPTIONAL,
  -- Applicable to 3.84Mcps TDD only
  iE-Extensions ProtocolExtensionContainer ( { UL-CCTrCH-
InformationItem-RL-SetupRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-DPCH-LCR-Information-RL-SetupRqstTDD CRITICALITY notify EXTENSION UL-DPCH-LCR-
Information-RL-SetupRqstTDD PRESENCE optional }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-UL-SIRtarget CRITICALITY reject EXTENSION UL-SIR PRESENCE
optional }|
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
  { ID id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD CRITICALITY reject EXTENSION TDD-TPC-
UplinkStepSize-LCR PRESENCE optional },
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
  ...
}

UL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container({ UL-DPCH-InformationIE-RL-
SetupRqstTDD })

UL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-DPCH-
InformationItem-RL-SetupRqstTDD PRESENCE mandatory }
}

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHoffset TDD-DPCHoffset,
  ul-Timeslot-Information UL-Timeslot-Information,
  iE-Extensions ProtocolExtensionContainer ( { UL-DPCH-InformationItem-
RL-SetupRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHoffset TDD-DPCHoffset,
  ul-TimeslotLCR-Information UL-TimeslotLCR-Information,
  iE-Extensions ProtocolExtensionContainer ( { UL-DPCH-LCR-
InformationItem-RL-SetupRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF ProtocolIE-
Single-Container({ DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD })

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify
TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory}
}

```

```

}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TPCS,
    tPCI-Coding              TPCI-Coding,
    punctureLimit            PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    cCTrCH-TPCList           CCTrCH-TPCList-RL-SetupRqstTDD      OPTIONAL,
    dL-DPCH-Information      DL-DPCH-Information-RL-SetupRqstTDD  OPTIONAL,
    -- Applicable to 3.84Mcps TDD only
    iE-Extensions            ProtocolExtensionContainer ( { DL-CCTrCH-
                                InformationItem-RL-SetupRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ( ID id-DL-DPCH-LCR-Information-RL-SetupRqstTDD CRITICALITY notify      EXTENSION   DL-DPCH-LCR-
    Information-RL-SetupRqstTDD PRESENCE optional   ),
    -- Applicable to 1.28Mcps TDD only
    ...
}

CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-
SetupRqstTDD

CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer ( { CCTrCH-TPCItem-RL-
                                SetupRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container( { DL-DPCH-InformationIE-RL-
SetupRqstTDD } )

DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    ( ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-
    InformationItem-RL-SetupRqstTDD PRESENCE mandatory   )
}

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-DPCHOffset            TDD-DPCHOffset,
    dL-Timeslot-Information   DL-Timeslot-Information,
    iE-Extensions            ProtocolExtensionContainer ( { DL-DPCH-InformationItem-
                                RL-SetupRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-DPCHOffset            TDD-DPCHOffset,
    dL-TimeslotLCR-Information DL-TimeslotLCR-Information,
    tstDIndicator             TSTD-Indicator,
    iE-Extensions            ProtocolExtensionContainer ( { DL-DPCH-LCR-
                                InformationItem-RL-SetupRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-SetupRqstTDD ::= SEQUENCE (

```

```

    rL-ID                    RL-ID,
    c-ID                     C-ID,
    frameOffset              FrameOffset,
    specialBurstScheduling   SpecialBurstScheduling,
    initialDL-transmissionPower DL-Power,
    maximumDL-power          DL-Power,
    minimumDL-power          DL-Power,
    dL-TimeSlotISCPInfo      DL-TimeSlotISCPInfo OPTIONAL,
    -- Applicable to 3.84Mcps TDD only
    iE-Extensions            ProtocolExtensionContainer ( { RL-Information-RL-
                                SetupRqstTDD-ExtIEs} )      OPTIONAL,
    ...
}

RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeslotISCP-InfoList-RL-SetupRqstTDD  CRITICALITY reject      EXTENSION  DL-
TimeslotISCPInfoLCR      PRESENCE optional  }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UL-Synchronisation-Parameters-LCR      CRITICALITY reject      EXTENSION  UL-
Synchronisation-Parameters-LCR      PRESENCE optional  }|
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    { ID id-UARFCNforNt      CRITICALITY reject      EXTENSION  UARFCN
PRESENCE optional  }, -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    ...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

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

RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID      CRITICALITY ignore      TYPE
CRNC-CommunicationContextID      PRESENCE mandatory  }|
    { ID id-NodeB-CommunicationContextID      CRITICALITY ignore      TYPE
NodeB-CommunicationContextID      PRESENCE mandatory  }|
    { ID id-CommunicationControlPortID      CRITICALITY ignore      TYPE
CommunicationControlPortID      PRESENCE mandatory  }|
    { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore      TYPE
RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory  }|
    { ID id-TFCI2-BearerInformationResponse CRITICALITY ignore      TYPE
TFCI2-BearerInformationResponse PRESENCE optional  }|
    { ID id-CriticalityDiagnostics      CRITICALITY ignore      TYPE
CriticalityDiagnostics      PRESENCE optional  },
    ...
}

RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-
Container({ RL-InformationResponseItemIE-RL-SetupRspFDD })

RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore      TYPE
RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory }
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE (
    rL-ID                    RL-ID,
    rL-Set-ID                RL-Set-ID,
    received-total-wide-band-power Received-total-wide-band-power-Value,
    diversityIndication      DiversityIndication-RL-SetupRspFDD,
    dsch-InformationResponseList DSCH-InformationResponseList-RL-SetupRspFDD
    OPTIONAL,

```

```

sSDT-SupportIndicator          SSDT-SupportIndicator,
iE-Extensions                  ProtocolExtensionContainer { ( RL-
                                InformationResponseItem-RL-SetupRspFDD-ExtIEs) }
                                OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining                    Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL       NonCombiningOrFirstRL-RL-SetupRspFDD
}

Combining-RL-SetupRspFDD ::= SEQUENCE (
    rL-ID                        RL-ID,
    iE-Extensions                ProtocolExtensionContainer { ( Combining-RL-
                                SetupRspFDD-ExtIEs) }          OPTIONAL,
    ...
)

Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE (
    dCH-InformationResponse      DCH-InformationResponse,
    iE-Extensions                ProtocolExtensionContainer
                                { ( NonCombiningOrFirstRLItem-RL-SetupRspFDD-
                                ExtIEs) }          OPTIONAL,
    ...
)

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

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

DSCH-InformationResponseListIEs-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= (
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse.
    PRESENCE mandatory }
)

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

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

RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= (
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore TYPE
    CRNC-CommunicationContextID PRESENCE mandatory }}|
    { ID id-NodeB-CommunicationContextID        CRITICALITY ignore TYPE
    NodeB-CommunicationContextID PRESENCE mandatory }}|
    { ID id-CommunicationControlPortID         CRITICALITY ignore TYPE
    CommunicationControlPortID PRESENCE mandatory }}|
    { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE
    RL-InformationResponse-RL-SetupRspTDD PRESENCE optional }}|
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    { ID id-CriticalityDiagnostics              CRITICALITY ignore TYPE
    CriticalityDiagnostics PRESENCE optional },
    ...
)

```

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```

RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-RL-InformationResponse-LCR-RL-SetupRspTDD CRITICALITY ignore
EXTENSION RL-InformationResponse-LCR-RL-SetupRspTDD PRESENCE optional },
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  ...
}

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

RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container({ DCH-
InformationResponseListIEs-RL-SetupRspTDD })

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

DSCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container ( { DSCH-
InformationResponseListIEs-RL-SetupRspTDD })

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

USCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container ( { USCH-
InformationResponseListIEs-RL-SetupRspTDD })

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

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

RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--

```

```

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

RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY  ignore          TYPE
CRNC-CommunicationContextID          PRESENCE      mandatory    }|
    { ID      id-NodeB-CommunicationContextID        CRITICALITY  ignore          TYPE
NodeB-CommunicationContextID        PRESENCE      conditional  }|
    -- This IE shall be present if at least one of the radio links has been successfully set up
    { ID      id-CommunicationControlPortID         CRITICALITY  ignore          TYPE
CommunicationControlPortID         PRESENCE      optional     }|
    * .{ ID   id-CauseLevel-RL-SetupFailureFDD      CRITICALITY  ignore          TYPE
CauseLevel-RL-SetupFailureFDD      PRESENCE      mandatory   }|
    { ID      id-CriticalityDiagnostics             CRITICALITY  ignore          TYPE
CriticalityDiagnostics             PRESENCE      optional     },
    ...
}

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

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause      GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause  RLSpecificCauseList-RL-SetupFailureFDD,
    ...
}

GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    cause              Cause,
    iE-Extensions     ProtocolExtensionContainer { { GeneralCauseItem-RL-
SetupFailureFDD-ExtIEs) }      OPTIONAL,
    ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD  Unsuccessful-RL-InformationRespList-
RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD    Successful-RL-InformationRespList-
RL-SetupFailureFDD  OPTIONAL,
    iE-Extensions                                           ProtocolExtensionContainer
{ { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs) }      OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
ProtocolIE-Single-Container {{ Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD }}

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD  CRITICALITY  ignore
TYPE      Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD      PRESENCE      mandatory}
}

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID      RL-ID,
    cause      Cause,
    iE-Extensions     ProtocolExtensionContainer { { Unsuccessful-RL-
InformationRespItem-RL-SetupFailureFDD-ExtIEs) }
OPTIONAL,
    ...}

```

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```

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF
ProtocolIE-Single-Container {{ Successful-RL-InformationRespItemIE-RL-SetupFailureFDD }}

Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= (
    { ID id-Successful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore
    TYPE Successful-RL-InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory}
)

Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE (
    rL-ID RL-ID,
    rL-Set-ID RL-Set-ID,
    received-total-wide-band-power Received-total-wide-band-power-Value,
    diversityIndication DiversityIndication-RL-SetupFailureFDD,
    dSCH-InformationResponseList DSCH-InformationRespList-RL-SetupFailureFDD
    OPTIONAL,
    tFCI2-BearerInformationResponse TFCI2-BearerInformationResponse OPTIONAL,
    -- There shall be only one TFCI2 bearer per Node B Communication Context.
    sSDT-SupportIndicator SSDT-SupportIndicator,
    iE-Extensions ProtocolExtensionContainer ( { Successful-RL-
    InformationRespItem-RL-SetupFailureFDD-ExtIEs} )
    OPTIONAL,
    ...
)

Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

DiversityIndication-RL-SetupFailureFDD ::= CHOICE (
    combining Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD
)

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

CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE (
    dCH-InformationResponse DCH-InformationResponse,
    iE-Extensions ProtocolExtensionContainer
    ( { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-
    ExtIEs} ) OPTIONAL,
    ...
)

NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-
InformationRespListIEs-RL-SetupFailureFDD }}

DSCH-InformationRespListIEs-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= (
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
    PRESENCE mandatory }
)

-- *****
--
-- RADIO LINK SETUP FAILURE TDD
--
-- *****

```



```

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

RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore
    TYPE      CRNC-CommunicationContextID            PRESENCE      mandatory } |
    { ID      id-CauseLevel-RL-SetupFailureTDD        CRITICALITY ignore
    TYPE      CauseLevel-RL-SetupFailureTDD          PRESENCE      mandatory } |
    { ID      id-CriticalityDiagnostics                CRITICALITY ignore
    TYPE      CriticalityDiagnostics                 PRESENCE      optional   },
    ...
}

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

CauseLevel-RL-SetupFailureTDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-SetupFailureTDD,
    rLSpecificCause       RLSpecificCauseList-RL-SetupFailureTDD,
    ...
}

GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
    cause                 Cause,
    iE-Extensions         ProtocolExtensionContainer ( { GeneralCauseItem-RL-SetupFailureTDD-
    ExtIEs} )             OPTIONAL,
    ...
}

GeneralCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD Unsuccessful-RL-InformationRespItem-RL-
    SetupFailureTDD,
    iE-Extensions         ProtocolExtensionContainer
    ( { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} )    OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container
( {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD} )

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD    CRITICALITY ignore    TYPE
    Unsuccessful-RL-InformationResp-RL-SetupFailureTDD    PRESENCE      mandatory   }
}

Unsuccessful-RL-InformationResp-RL-SetupFailureTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                 Cause,
    iE-Extensions         ProtocolExtensionContainer ( { Unsuccessful-RL-
    InformationResp-RL-SetupFailureTDD-ExtIEs} )
    OPTIONAL,
    ...
}

Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION REQUEST FDD
--

```

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```

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

RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    ( ID id-NodeB-CommunicationContextID          CRITICALITY reject          TYPE
      NodeB-CommunicationContextID
      PRESENCE mandatory ) |
    ( ID id-Compressed-Mode-Deactivation-Flag      CRITICALITY reject          TYPE
      Compressed-Mode-Deactivation-Flag
      PRESENCE optional ) |
    ( ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify          TYPE RL-
      InformationList-RL-AdditionRqstFDD
      PRESENCE mandatory ),
    ...
}

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

RL-InformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-
Container {{ RL-InformationItemIE-RL-AdditionRqstFDD}}

RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
    ( ID id-RL-InformationItem-RL-AdditionRqstFDD CRITICALITY notify          TYPE
      RL-InformationItem-RL-AdditionRqstFDD
      PRESENCE mandatory)
}

RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                 C-ID,
    frameOffset          FrameOffset,
    chipOffset           ChipOffset,
    diversityControlField DiversityControlField,
    dl-CodeInformation   FDD-DL-CodeInformation,
    initialDL-TransmissionPower DL-Power          OPTIONAL,
    maximumDL-Power     DL-Power          OPTIONAL,
    minimumDL-Power     DL-Power          OPTIONAL,
    sSDT-CellIdentity   SSdT-Cell-Identity OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer ( { RL-InformationItem-
      RL-AdditionRqstFDD-ExtIEs } )          OPTIONAL,
    ...
}

RL-InformationItem-RL-AdditionRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

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

RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    ( ID id-NodeB-CommunicationContextID          CRITICALITY reject
    TYPE NodeB-CommunicationContextID          PRESENCE mandatory ) |
    ( ID id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD CRITICALITY reject
    TYPE UL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional ) |
    ( ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD CRITICALITY reject
    TYPE DL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional ) |
    ( ID id-RL-Information-RL-AdditionRqstTDD          CRITICALITY reject
}

```

```

TYPE      RL-Information-RL-AdditionRqstTDD          PRESENCE    mandatory
...
}

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

UL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-
InformationItem-RL-AdditionRqstTDD

UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    uL-DPCH-Information      UL-DPCH-InformationList-RL-AdditionRqstTDD
    OPTIONAL, -- Applicable to 3.84cps TDD only
    iE-Extensions            ProtocolExtensionContainer { ( UL-CCTrCH-
                                InformationItem-RL-AdditionRqstTDD-ExtIEs) }
                                OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD  CRITICALITY notify  EXTENSION  UL-
    DPCH-InformationItem-LCR-RL-AdditionRqstTDD                PRESENCE    optional }|
    -- Applicable to 1.28cps TDD only
    { ID      id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD  CRITICALITY reject  EXTENSION  TDD-
    TPC-UplinkStepSize-LCR  PRESENCE optional },
    -- Applicable to 1.28cps TDD only
    ...
}

UL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container { ( UL-DPCH-
InformationItemIE-RL-AdditionRqstTDD )}

UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-UL-DPCH-InformationItem-RL-AdditionRqstTDD      CRITICALITY  notify
TYPE      UL-DPCH-InformationItem-RL-AdditionRqstTDD          PRESENCE    optional}
    -- For 3.84Mcps TDD only
}

UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tdd-DPCHoffset          TDD-DPCHoffset,
    uL-Timeslot-Information UL-Timeslot-Information,
    iE-Extensions          ProtocolExtensionContainer { ( UL-DPCH-InformationItem-
                                RL-AdditionRqstTDD-ExtIEs) }          OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-
InformationItem-RL-AdditionRqstTDD

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dL-DPCH-Information      DL-DPCH-InformationList-RL-AdditionRqstTDD
                                OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { ( DL-CCTrCH-
                                InformationItem-RL-AdditionRqstTDD-ExtIEs) }
                                OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD  CRITICALITY  notify
EXTENSION  DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD      PRESENCE    optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID      id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD    CRITICALITY reject  EXTENSION  TDD-
    TPC-DownlinkStepSize  PRESENCE optional },
    ...
}

```

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```

DL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container ( { DL-DPCH-
InformationItemIE-RL-AdditionRqstTDD } )

DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify
TYPE DL-DPCH-InformationItem-RL-AdditionRqstTDD PRESENCE mandatory}
-- Applicable to 3.84Mcps TDD only
}

DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-Information DL-Timeslot-Information,
  iE-Extensions ProtocolExtensionContainer ( { DL-DPCH-InformationItem-
RL-AdditionRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
  rL-ID RL-ID,
  c-ID C-ID,
  frameOffset FrameOffset,
  diversityControlField DiversityControlField,
  initial-DL-Transmission-Power DL-Power OPTIONAL,
  maximumDL-Power DL-Power OPTIONAL,
  minimumDL-Power DL-Power OPTIONAL,
  dL-TimeSlotISCPInfo DL-TimeSlotISCPInfo OPTIONAL,
  -- Applicable to 3.84Mcps TDD only
  iE-Extensions ProtocolExtensionContainer ( { RL-information-RL-
AdditionRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  { ID id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD CRITICALITY reject
EXTENSION DL-TimeSlotISCPInfoLCR PRESENCE optional} |
  -- Applicable to 1.28Mcps TDD only
  { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY reject EXTENSION UL-
Synchronisation-Parameters-LCR PRESENCE optional} |
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
  { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN
PRESENCE optional} ),
  -- Mandatory for 1.28Mcps TDD when using multiple frequencies
  ...
)

UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  uL-TimeslotLCR-Information UL-TimeslotLCR-Information,
  iE-Extensions ProtocolExtensionContainer ( { UL-DPCH-InformationItem-
LCR-RL-AdditionRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  ...
)

DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dL-TimeslotLCR-Information DL-TimeslotLCR-Information,
  iE-Extensions ProtocolExtensionContainer ( { DL-DPCH-InformationItem-
LCR-RL-AdditionRqstTDD-ExtIEs} ) OPTIONAL,
  ...
}

```

```

DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

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

RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY  ignore
TYPE      CRNC-CommunicationContextID              PRESENCE      mandatory }|
    { ID      id-RL-InformationResponseList-RL-AdditionRspFDD CRITICALITY  ignore
TYPE      RL-InformationResponseList-RL-AdditionRspFDD PRESENCE      mandatory }|
    { ID      id-CriticalityDiagnostics              CRITICALITY  ignore
TYPE      CriticalityDiagnostics                    PRESENCE      optional  },
    ...
}

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

RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-
Single-Container {{ RL-InformationResponseItemIE-RL-AdditionRspFDD }}

RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-RL-InformationResponseItem-RL-AdditionRspFDD CRITICALITY  ignore
TYPE      RL-InformationResponseItem-RL-AdditionRspFDD PRESENCE      mandatory}
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    rL-Set-ID      RL-Set-ID,
    received-total-wide-band-power Received-total-wide-band-power-Value,
    diversityIndication DiversityIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator SSDT-SupportIndicator,
    iE-Extensions  ProtocolExtensionContainer { { RL-
InformationResponseItem-RL-AdditionRspFDD-
ExtIEs } } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

Non-Combining-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse DCH-InformationResponse,
    iE-Extensions          ProtocolExtensionContainer { { Non-CombiningItem-RL-
}

```

```

                                AdditionRspFDD-ExtIEs) }          OPTIONAL,
}
...
Non-CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

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

RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IEs ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE
CRNC-CommunicationContextID          PRESENCE    mandatory    }|
    { ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore          TYPE
RL-InformationResponse-RL-AdditionRspTDD PRESENCE    optional    }|
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    { ID id-CriticalityDiagnostics              CRITICALITY ignore          TYPE
CriticalityDiagnostics              PRESENCE    optional    },
}
...

RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-InformationResponse-LCR-RL-AdditionRspTDD CRITICALITY ignore
EXTENSION RL-InformationResponse-LCR-RL-AdditionRspTDD PRESENCE optional },
-- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
}
...

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

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

DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication DiversityIndication-RL-AdditionRspTDD,
    iE-Extensions       ProtocolExtensionContainer ( { DCH-Information-RL-
AdditionRspTDD-ExtIEs} ) OPTIONAL,
}
...

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

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

```

```

    rL-ID
    iE-Extensions
    ...
}

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

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

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

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

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

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

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

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

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

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

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

RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-
    CommunicationContextID PRESENCE mandatory }|
    { ID id-CauseLevel-RL-AdditionFailureFDD CRITICALITY ignore TYPE CauseLevel-
    RL-AdditionFailureFDD PRESENCE mandatory }|

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```

    { ID      id-CriticalityDiagnostics      CRITICALITY  ignore      TYPE
      CriticalityDiagnostics PRESENCE optional },
    ...
}

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

CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause      GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause   RLSpecificCauseList-RL-AdditionFailureFDD,
    ...
}

GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    cause              Cause,
    iE-Extensions     ProtocolExtensionContainer ( { GeneralCauseItem-RL-
      AdditionFailureFDD-ExtIEs} )          OPTIONAL,
    ...
}

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE (
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD      Unsuccessful-RL-
      InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD        Successful-RL-
      InformationRespList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer
      ( { RLSpecificCauseItem-RL-
        AdditionFailureFDD-ExtIEs} )
      OPTIONAL,
    ...
)

RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF
ProtocolIE-Single-Container ( { Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD } )

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD      CRITICALITY
      ignore      TYPE      Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD      PRESENCE
      mandatory}
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE (
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer ( { Unsuccessful-RL-
      InformationRespItem-RL-AdditionFailureFDD-ExtIEs} )
      OPTIONAL,
    ...
)

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-2)) OF
ProtocolIE-Single-Container ( { Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD } )

Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD      CRITICALITY  ignore
      TYPE      Successful-RL-InformationRespItem-RL-AdditionFailureFDD      PRESENCE      mandatory}
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE (

```



```

    rL-ID                                RL-ID,
    rL-Set-ID                             RL-Set-ID,
    received-total-wide-band-power        Received-total-wide-band-power-Value,
    diversityIndication                   DiversityIndication-RL-AdditionFailureFDD,
    sSDT-SupportIndicator                  SSdT-SupportIndicator,
    iE-Extensions                          ProtocolExtensionContainer ( { Successful-RL-
InformationRespItem-RL-AdditionFailureFDD-ExtIEs} )    OPTIONAL,
    ...
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

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

-- *****
--
-- RADIO LINK ADDITION FAILURE TDD
--
-- *****

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

RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID    CRITICALITY    ignore    TYPE    CRNC-
CommunicationContextID                      PRESENCE    mandatory    }|
    { ID    id-CauseLevel-RL-AdditionFailureTDD    CRITICALITY    ignore    TYPECauseLevel-
RL-AdditionFailureTDD                      PRESENCE    mandatory    }|
    { ID    id-CriticalityDiagnostics          CRITICALITY    ignore    TYPE
CriticalityDiagnostics                      PRESENCE    optional    },
    ...
}

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

CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
    generalCause                            GeneralCauseList-RL-AdditionFailureTDD,
    rLspecificCause                          RLspecificCauseList-RL-AdditionFailureTDD,
    ...
}

GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE {

```

```

cause          Cause,
iE-Extensions ProtocolExtensionContainer { ( GeneralCauseItem-RL-
AdditionFailureTDD-ExtIEs) }          OPTIONAL,
...
)

GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD  Unsuccessful-RL-InformationRespItem-
RL-AdditionFailureTDD,
  iE-Extensions          ProtocolExtensionContainer
{ ( RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs) }          OPTIONAL,
...
}

RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container
{ (Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD) }

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= (
  { ID id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  CRITICALITY ignore  TYPE
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  PRESENCE mandatory }
)

Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD ::= SEQUENCE (
  rL-ID          RL-ID,
  cause          Cause,
  iE-Extensions ProtocolExtensionContainer { ( Unsuccessful-RL-
InformationResp-RL-AdditionFailureTDD-ExtIEs) } OPTIONAL,
...
)

Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

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

RadioLinkReconfigurationPrepareFDD-IES NBAP-PROTOCOL-IES ::= (
  { ID id-NodeB-CommunicationContextID          CRITICALITY reject
TYPE NodeB-CommunicationContextID          PRESENCE mandatory } |
  { ID id-UL-DPCH-Information-RL-ReconfPrepFDD  CRITICALITY reject
TYPE UL-DPCH-Information-RL-ReconfPrepFDD  PRESENCE optional } |
  { ID id-DL-DPCH-Information-RL-ReconfPrepFDD  CRITICALITY reject
TYPE DL-DPCH-Information-RL-ReconfPrepFDD  PRESENCE optional } |
  { ID id-FDD-DCHs-to-Modify          CRITICALITY reject
TYPE FDD-DCHs-to-Modify          PRESENCE optional } |
  { ID id-DCHs-to-Add-FDD          CRITICALITY reject
TYPE DCH-FDD-Information          PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfPrepFDD  CRITICALITY reject
TYPE DCH-DeleteList-RL-ReconfPrepFDD  PRESENCE optional } |
  { ID id-DSCH-ModifyList-RL-ReconfPrepFDD  CRITICALITY reject
TYPE DSCH-ModifyList-RL-ReconfPrepFDD  PRESENCE optional } |
  { ID id-DSCHs-to-Add-FDD          CRITICALITY reject
TYPE DSCH-FDD-Information          PRESENCE optional } |
  { ID id-DSCH-DeleteList-RL-ReconfPrepFDD  CRITICALITY reject
TYPE DSCH-DeleteList-RL-ReconfPrepFDD  PRESENCE optional } |
  { ID id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD CRITICALITY reject

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```

TYPE      TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD      PRESENCE optional } |
( ID      id-RL-InformationList-RL-ReconfPrepFDD              CRITICALITY reject
TYPE      RL-InformationList-RL-ReconfPrepFDD                  PRESENCE optional } |
( ID      id-Transmission-Gap-Pattern-Sequence-Information    CRITICALITY reject
TYPE      Transmission-Gap-Pattern-Sequence-Information        PRESENCE optional },
...
)

RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
( ID      id-DSCH-FDD-Common-Information                      CRITICALITY ignore EXTENSION DSCH-FDD-
Common-Information PRESENCE optional ),
...
}

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
ul-SIR-Target              UL-SIR                     OPTIONAL,
minUL-ChannelisationCodeLength  MinUL-ChannelisationCodeLength  OPTIONAL,
maxNrOfUL-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL,
-- This IE shall be present if minUL-ChannelisationCodeLength Ie is set to 4
ul-PunctureLimit          PunctureLimit              OPTIONAL,
tFCS                      TFCS                      OPTIONAL,
ul-DPCCH-SlotFormat       UL-DPCCH-SlotFormat       OPTIONAL,
diversityMode             DiversityMode             OPTIONAL,
sSDT-CellIDLength        SSDT-CellID-Length        OPTIONAL,
s-FieldLength            S-FieldLength            OPTIONAL,
iE-Extensions            ProtocolExtensionContainer { { UL-DPCH-
Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
tFCS                      TFCS                      OPTIONAL,
dl-DPCH-SlotFormat        DL-DPCH-SlotFormat        OPTIONAL,
tFCI-SignallingMode       TFCI-SignallingMode       OPTIONAL,
tFCI-Presence             TFCI-Presence             OPTIONAL,
-- This IE shall be present if the DL DPCH Slot Format IE is set to any of the values from 12 to
16
multiplexingPosition      MultiplexingPosition      OPTIONAL,
pDSCH-CodeMapping        PDSCH-CodeMapping        OPTIONAL,
pDSCH-RL-ID              RL-ID              OPTIONAL,
limitedPowerIncrease       LimitedPowerIncrease       OPTIONAL,
iE-Extensions            ProtocolExtensionContainer { { DL-DPCH-
Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-
ReconfPrepFDD

DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID                    DCH-ID,
iE-Extensions            ProtocolExtensionContainer { { DCH-DeleteItem-
RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Single-
Container { {DSCH-ModifyItemIE-RL-ReconfPrepFDD } }

DSCH-ModifyItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
( ID      id-DSCH-ModifyItem-RL-ReconfPrepFDD              CRITICALITY reject      TYPE      DSCH-ModifyItem-
RL-ReconfPrepFDD        PRESENCE      mandatory)

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}

DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    toAWS            ToAWS OPTIONAL,
    toAWE            ToAWE OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    iE-Extensions   ProtocolExtensionContainer ( { DSCH-ModifyItem-
    RL-ReconfPrepFDD-ExtIEs} ) OPTIONAL,
    ...
}

DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Single-
Container ( { DSCH-DeleteItemIE-RL-ReconfPrepFDD } )

DSCH-DeleteItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
    ( ID      id-DSCH-DeleteItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-DeleteItem-
    RL-ReconfPrepFDD      PRESENCE      mandatory)
}

DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    iE-Extensions   ProtocolExtensionContainer ( { DSCH-DeleteItem-
    RL-ReconfPrepFDD-ExtIEs} ) OPTIONAL,
    ...
}

DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD ::= CHOICE {
    addOrModify      AddOrModify-TFCI2-RL-ReconfPrepFDD,
    delete           NULL
}

AddOrModify-TFCI2-RL-ReconfPrepFDD ::= SEQUENCE {
    toAWS            ToAWS,
    toAWE            ToAWE,
    iE-Extensions   ProtocolExtensionContainer ( { AddOrModify-TFCI2-RL-
    ReconfPrepFDD-ExtIEs} ) OPTIONAL,
    ...
}

AddOrModify-TFCI2-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-
Container ( { RL-InformationItemIE-RL-ReconfPrepFDD } )

RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
    ( ID      id-RL-InformationItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE
    RL-InformationItem-RL-ReconfPrepFDD      PRESENCE      mandatory)
}

RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    dl-CodeInformation FDD-DL-CodeInformation OPTIONAL,
    maxDL-Power     DL-Power OPTIONAL,
    minDL-Power     DL-Power OPTIONAL,
    sSDT-Indication SSDT-Indication 0 PTIONAL,
    sSDT-Cell-Identity SSDT-Cell-Identity OPTIONAL,
    -- The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE"
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is
    not set to "none"
    iE-Extensions   ProtocolExtensionContainer ( { RL-

```

```

InformationItem-RL-ReconfPrepFDD-ExtIEs) } OPTIONAL,
)
...
RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-Cell-Identity PRESENCE
conditional },
  -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE.
  ...
}

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

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

RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject
TYPE NodeB-CommunicationContextID PRESENCE mandatory }} |
  { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY reject
TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD CRITICALITY reject
TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD CRITICALITY reject
TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY reject
TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD CRITICALITY reject
TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD CRITICALITY reject
TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-TDD-DCHs-to-Modify CRITICALITY reject
TYPE TDD-DCHs-to-Modify PRESENCE optional } |
  { ID id-DCHs-to-Add-TDD CRITICALITY reject
TYPE DCH-TDD-Information PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject
TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject
TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DSCHs-to-Add-TDD CRITICALITY reject TYPE DSCH-TDD-Information
PRESENCE optional } |
  { ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject
TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject
TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-USCH-Information-Add CRITICALITY reject
TYPE USCH-Information PRESENCE optional } |
  { ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject
TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-RL-Information-RL-ReconfPrepTDD CRITICALITY reject
TYPE RL-Information-RL-ReconfPrepTDD PRESENCE optional },
  ...
}

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PDSCH-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE
optional },
  ...
}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-
InformationAddItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS,
  tFCI-Coding TFCI-Coding,
  punctureLimit PunctureLimit,
}

```

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```

    ul-DPCH-InformationList
    iE-Extensions
    ...
}

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION
    UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE
optional }|
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
    { ID id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD CRITICALITY reject
EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD.
    ...
}

UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container ({ UL-DPCH-
InformationAddListIEs-RL-ReconfPrepTDD })

UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-
InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    ul-Timeslot-Information UL-Timeslot-Information,
    iE-Extensions ProtocolExtensionContainer { ( UL-DPCH-
InformationAddItem-RL-ReconfPrepTDD-ExtIEs) } OPTIONAL,
    ...
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    ul-Timeslot-InformationLCR UL-TimeslotLCR-Information,
    iE-Extensions ProtocolExtensionContainer { ( UL-DPCH-LCR-
InformationAddItem-RL-ReconfPrepTDD-ExtIEs) } OPTIONAL,
    ...
}

UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-
CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtRCH-ID CCTrCH-ID,
    tFCS TPCS OPTIONAL,
    tPCI-Coding TPCI-Coding OPTIONAL,
    punctureLimit PunctureLimit OPTIONAL,
    ul-DPCH-InformationAddList UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
OPTIONAL,
    ul-DPCH-InformationModifyList UL-DPCH-InformationModify-ModifyList-RL-
ReconfPrepTDD OPTIONAL,
    ul-DPCH-InformationDeleteList UL-DPCH-InformationModify-DeleteList-RL-
ReconfPrepTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { ( UL-CCTrCH-
InformationModifyItem-RL-ReconfPrepTDD-ExtIEs) }
OPTIONAL,
    ...
}

```

```

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-DPCH-LCR-InformationModify-AddList CRITICALITY reject EXTENSION UL-DPCH-
  LCR-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional }| -- Applicable to
  1.28Mcps TDD only
  { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE
  optional }|
  -- Applicable to 1.28Mcps TDD only.
  { ID id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD CRITICALITY reject
  EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional },
  -- Applicable to 1.28Mcps TDD only
  ...
}

UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-
InformationModify-AddListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject
  TYPE UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  uL-Timeslot-Information UL-Timeslot-Information,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-
  InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs }
  OPTIONAL,
  ...
}

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  uL-Timeslot-InformationLCR UL-TimeslotLCR-Information,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-LCR-
  InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs }
  OPTIONAL,
  ...
}

UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-
InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE
  UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-DPCHOffset TDD-DPCHOffset OPTIONAL,
  uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Timeslot-
  InformationModify-ModifyList-RL-ReconfPrepTDD
  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-
  InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs }
  OPTIONAL,
  ...
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-
  TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD PRESENCE optional },

```

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```

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

UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 3.84Mcps TDD only

UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE (
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence            TFCI-Presence OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Code-InformationModify-
ModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { UL-Timeslot-
InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
)

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

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

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE (
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { UL-Code-
InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
)

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

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

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

UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

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

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

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

```



```

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

UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE
UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD          PRESENCE mandatory }
}

UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-
DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  iE-Extensions          ProtocolExtensionContainer ( { UL-DPCH-
InformationModify-DeleteItem-RL-ReconfPrepTDD-
ExtIEs } )              OPTIONAL,
  ...
}

UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  ...
)

UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-
CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID              CCTrCH-ID,
  iE-Extensions          ProtocolExtensionContainer ( { UL-CCTrCH-
InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } )
  OPTIONAL,
  ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  ...
)

DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-
InformationAddItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID              CCTrCH-ID,
  tFCS                   TFCS,
  tFCI-Coding            TFCI-Coding,
  punctureLimit          PunctureLimit,
  cCTrCH-TPCList        CCTrCH-TPCAddList-RL-ReconfPrepTDD
  OPTIONAL,
  dl-DPCH-InformationList DL-DPCH-InformationAddList-RL-ReconfPrepTDD
  OPTIONAL,
  iE-Extensions          ProtocolExtensionContainer ( { DL-CCTrCH-
InformationAddItem-RL-ReconfPrepTDD-ExtIEs } )
  OPTIONAL,
  ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  { ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD  CRITICALITY reject          EXTENSION
DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD          PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only
  { ID id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD  CRITICALITY reject
EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional } ,
  ...
)

CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-
ReconfPrepTDD -- Applicable to 3.84Mcps TDD only

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID              CCTrCH-ID,
  iE-Extensions          ProtocolExtensionContainer ( { CCTrCH-TPCAddItem-RL-
ReconfPrepTDD-ExtIEs } )  OPTIONAL,

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```

)
...
)
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container ({ DL-DPCH-
InformationAddListIEs-RL-ReconfPrepTDD })

DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject      TYPE DL-DPCH-
InformationAddItem-RL-ReconfPrepTDD      PRESENCE mandatory }
}

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE (
repetitionPeriod          RepetitionPeriod,
repetitionLength          RepetitionLength,
tdd-DPCHOffset            TDD-DPCHOffset,
dl-Timeslot-Information   DL-Timeslot-Information,
iE-Extensions             ProtocolExtensionContainer ( { DL-DPCH-
InformationAddItem-RL-ReconfPrepTDD-ExtIEs } ) OPTIONAL,
...
)

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (
repetitionPeriod          RepetitionPeriod,
repetitionLength          RepetitionLength,
tdd-DPCHOffset            TDD-DPCHOffset,
dl-Timeslot-InformationLCR DL-TimeslotLCR-Information,
iE-Extensions             ProtocolExtensionContainer ( { DL-DPCH-LCR-
InformationAddItem-RL-ReconfPrepTDD-ExtIEs } ) OPTIONAL,
...
)

DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-
CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE (
cCTrCH-ID                 CCTrCH-ID,
tFCS                      TPCS,                                OPTIONAL,
tFCI-Coding                TFCI-Coding,                        OPTIONAL,
punctureLimit              PunctureLimit,                      OPTIONAL,
cCTrCH-TPCList             CCTrCH-TPCModifyList-RL-ReconfPrepTDD
OPTIONAL,
dl-DPCH-InformationAddList DL-DPCH-InformationModify-AddList-RL-
ReconfPrepTDD            OPTIONAL,
dl-DPCH-InformationModifyList DL-DPCH-InformationModify-ModifyList-RL-
ReconfPrepTDD            OPTIONAL,
dl-DPCH-InformationDeleteList DL-DPCH-InformationModify-DeleteList-RL-
ReconfPrepTDD            OPTIONAL,
iE-Extensions             ProtocolExtensionContainer ( { DL-CCTrCH-
InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } )
OPTIONAL,
...
)

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= (
{ ID id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject
EXTENSION DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD      PRESENCE optional } | --
Applicable to 1.28Mcps TDD only
{ ID id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD CRITICALITY reject
EXTENSION TDD-TPC-DownlinkStepSize      PRESENCE optional},
...
)

```

```

CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-
TPCModifyItem-RL-ReconfPrepTDD

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtRCH-ID          CCTrCH-ID,
    iE-Extensions     ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-
        ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container ({ DL-DPCH-
InformationModify-AddListIEs-RL-ReconfPrepTDD })
-- Applicable to 3.94Mcps TDD only

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  CRITICALITY reject      TYPE DL-
DPCH-InformationModify-AddItem-RL-ReconfPrepTDD  PRESENCE mandatory }
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength     RepetitionLength,
    tdd-DPCHOffset       TDD-DPCHOffset,
    dL-Timeslot-Information DL-Timeslot-Information,
    iE-Extensions        ProtocolExtensionContainer { { DL-DPCH-
        InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
        OPTIONAL,
    ...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength     RepetitionLength,
    tdd-DPCHOffset       TDD-DPCHOffset,
    dL-Timeslot-InformationLCR DL-TimeslotLCR-Information,
    iE-Extensions        ProtocolExtensionContainer { { DL-DPCH-LCR-
        InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
        OPTIONAL,
    ...
}

DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container ({ DL-DPCH-
InformationModify-ModifyListIEs-RL-ReconfPrepTDD })

DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject      )
TYPE DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD  PRESENCE mandatory }
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod          OPTIONAL,
    repetitionLength     RepetitionLength          OPTIONAL,
    tdd-DPCHOffset       TDD-DPCHOffset            OPTIONAL,
    dL-Timeslot-InformationAddModify-ModifyList-RL-ReconfPrepTDD DL-Timeslot-
        InformationModify-ModifyList-RL-ReconfPrepTDD
        OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { DL-DPCH-
        InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
        OPTIONAL,
    ...
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

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```

    { ID id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD CRITICALITY reject
EXTENSION DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD PRESENCE
optional },
    ...
}

```

```

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

```

```

DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE (
    timeSlot TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence TFCI-Presence OPTIONAL,
    dl-Code-InformationModify-ModifyList-RL-ReconfPrepTDD DL-Code-InformationModify-
        ModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-
        InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
        OPTIONAL,
    ...
}

```

```

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

```

```

DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-
Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

```

```

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

```

```

DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

...
}

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

DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE
DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD      PRESENCE mandatory }
}

DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-
DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID          DPCH-ID,
  iE-Extensions    ProtocolExtensionContainer ( { DL-DPCH-
InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } )
  OPTIONAL,
  ...
}

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-
CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCtRCH-ID        CCTrCH-ID,
  iE-Extensions    ProtocolExtensionContainer ( { DL-CCTrCH-
InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } )
  OPTIONAL,
  ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-
ReconfPrepTDD

DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dCH-ID          DCH-ID,
  iE-Extensions    ProtocolExtensionContainer ( { DCH-DeleteItem-RL-
ReconfPrepTDD-ExtIEs } )
  OPTIONAL,
  ...
}

DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-
Information-ModifyItem-RL-ReconfPrepTDD

DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  cCtRCH-ID        CCTrCH-ID          OPTIONAL,
  transportFormatSet TransportFormatSet OPTIONAL,
  allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  toAWS            ToAWS              OPTIONAL,
  toAWE            ToAWE              OPTIONAL,
  transportBearerRequestIndicator TransportBearerRequestIndicator,
  iE-Extensions    ProtocolExtensionContainer ( { DSCH-Information-
ModifyItem-RL-ReconfPrepTDD-ExtIEs } )
  OPTIONAL,
  ...
}

DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

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```

}

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-
Information-DeleteItem-RL-ReconfPrepTDD

DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-
                                DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
Information-ModifyItem-RL-ReconfPrepTDD

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    cCTrCH-ID              CCTrCH-ID OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-
                                ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
Information-DeleteItem-RL-ReconfPrepTDD

USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-
                                DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {
    rL-ID                  RL-ID,
    maxDL-Power            DL-Power OPTIONAL,
    minDL-Power            DL-Power OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RL-Information-RL-
                                ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-InitDL-Power    CRITICALITY ignore     EXTENSION DL-Power PRESENCE optional }|
    { ID id-UL-Synchronisation-Parameters-LCR    CRITICALITY ignore     EXTENSION UL-
Synchronisation-Parameters-LCR PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UARFCNforNt     CRITICALITY reject     EXTENSION UARFCN
PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION READY
--
-- *****

```

```

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

RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID          CRITICALITY ignore
    TYPE CRNC-CommunicationContextID             PRESENCE mandatory } |
    { ID id-RL-InformationResponseList-RL-ReconfReady CRITICALITY ignore
    TYPE RL-InformationResponseList-RL-ReconfReady PRESENCE optional } |
    { ID id-CriticalityDiagnostics              CRITICALITY ignore
    TYPE CriticalityDiagnostics                 PRESENCE optional },
    ...
}

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

RL-InformationResponseList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-
Single-Container {{ RL-InformationResponseItemIE-RL-ReconfReady}}

RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfReady CRITICALITY ignore
    TYPE RL-InformationResponseItem-RL-ReconfReady PRESENCE mandatory}
}

RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE (
    rL-ID RL-ID,
    dCH-InformationResponseList-RL-ReconfReady DCH-InformationResponseList-RL-ReconfReady
    OPTIONAL,
    dsch-InformationResponseList-RL-ReconfReady DSCH-InformationResponseList-RL-ReconfReady
    OPTIONAL,
    usch-InformationResponseList-RL-ReconfReady USCH-InformationResponseList-RL-ReconfReady
    OPTIONAL, -- TDD only
    tFCI2-BearerInformationResponse TFCI2-BearerInformationResponse OPTIONAL,
    -- FDD only. There shall be only one TFCI2 bearer per Node B Communication Context.
    iE-Extensions ProtocolExtensionContainer { ( RL-
    InformationResponseItem-RL-ReconfReady-ExtIEs) }
    OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ DCH-
InformationResponseListIEs-RL-ReconfReady }}

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

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

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

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

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

-- *****
--

```

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```

-- RADIO LINK RECONFIGURATION FAILURE
--
-- *****
RadioLinkReconfigurationFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {(RadioLinkReconfigurationFailure-IEs)},
    protocolExtensions   ProtocolExtensionContainer {(RadioLinkReconfigurationFailure-
        Extensions)}          OPTIONAL,
    ...
}

RadioLinkReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID  CRITICALITY ignore TYPE    CRNC-CommunicationContextID
      PRESENCE mandatory } |
    { ID    id-CauseLevel-RL-ReconfFailure  CRITICALITY ignore TYPE    CauseLevel-RL-ReconfFailure
      PRESENCE mandatory } |
    { ID    id-CriticalityDiagnostics       CRITICALITY ignore TYPE    CriticalityDiagnostics
      PRESENCE optional  },
    ...
}

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

CauseLevel-RL-ReconfFailure ::= CHOICE {
    generalCause          GeneralCauseList-RL-ReconfFailure,
    rLSpecificCause       RLSpecificCauseList-RL-ReconfFailure,
    ...
}

GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
    cause                 Cause,
    iE-Extensions        ProtocolExtensionContainer { ( GeneralCauseItem-RL-
        ReconfFailure-ExtIEs) }          OPTIONAL,
    ...
}

GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
    rL-ReconfigurationFailureList-RL-ReconfFailure  RL-ReconfigurationFailureList-RL-
        ReconfFailure          OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer
        { ( RLSpecificCauseItem-RL-ReconfFailure-
            ExtIEs) } OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-
Single-Container { ( RL-ReconfigurationFailureItemIE-RL-ReconfFailure)}

RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID    id-RL-ReconfigurationFailureItem-RL-ReconfFailure  CRITICALITY    ignore
    TYPE    RL-ReconfigurationFailureItem-RL-ReconfFailure      PRESENCE    mandatory}
}

RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer { ( RL-
        ReconfigurationFailureItem-RL-ReconfFailure-
            ExtIEs) }          OPTIONAL,
    ...
}

RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

-- *****
--
-- RADIO LINK RECONFIGURATION COMMIT
--
-- *****

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

RadioLinkReconfigurationCommit-IEs NBAP-PROTOCOL-IES ::= {
    ( ID   id-NodeB-CommunicationContextID   CRITICALITY   ignore   TYPE   NodeB-
        CommunicationContextID PRESENCE   mandatory ) |
    ( ID   id-CFN                             CRITICALITY   ignore   TYPE   CFN
        PRESENCE   mandatory ) |
    ( ID   id-Active-Pattern-Sequence-Information CRITICALITY   ignore   TYPE   Active-
        Pattern-Sequence-Information PRESENCE optional ) ,
    ...
}

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

-- *****
--
-- RADIO LINK RECONFIGURATION CANCEL
--
-- *****

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

RadioLinkReconfigurationCancel-IEs NBAP-PROTOCOL-IES ::= {
    ( ID   id-NodeB-CommunicationContextID   CRITICALITY   ignore   TYPE   NodeB-
        CommunicationContextID   PRESENCE   mandatory ) ,
    ...
}

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

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST FDD
--
-- *****

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

RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    ( ID   id-NodeB-CommunicationContextID   CRITICALITY   reject   TYPE   NodeB-
        CommunicationContextID PRESENCE   mandatory ) |
    ( ID   id-UL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY   reject   TYPE   UL-DPCH-
        Information-RL-ReconfRqstFDD PRESENCE optional ) |
    ( ID   id-DL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY   reject   TYPE   DL-DPCH-
        Information-RL-ReconfRqstFDD PRESENCE optional ) |
    ( ID   id-FDD-DCHs-to-Modify                CRITICALITY   reject   TYPE   FDD-DCHs-to-
        Modify PRESENCE optional ) |
    ( ID   id-DCHs-to-Add-FDD                   CRITICALITY   reject   TYPE   DCH-FDD-
        Information PRESENCE optional ) |
}

```

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```

( ID      id-DCH-DeleteList-RL-ReconfRqstFDD      CRITICALITY    reject      TYPE      DCH-DeleteList-RL-ReconfRqstFDD PRESENCE optional)|
( ID      id-RL-InformationList-RL-ReconfRqstFDD   CRITICALITY    reject      TYPE      RL-InformationList-RL-ReconfRqstFDD PRESENCE optional)|
( ID      id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY    reject      TYPE      Transmission-Gap-Pattern-Sequence-Information PRESENCE optional ),
...
}

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

UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-TFCS                                TFCS                                OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer ( { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } ) OPTIONAL,
    ...
}

UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE (
    dl-TFCS                                TFCS                                OPTIONAL,
    tFCI-SignallingMode                    TFCI-SignallingMode                OPTIONAL,
    limitedPowerIncrease                    LimitedPowerIncrease                OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer ( { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } ) OPTIONAL,
    ...
)

DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD

DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE (
    dCH-ID                                  DCH-ID,
    iE-Extensions                          ProtocolExtensionContainer ( { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs } ) OPTIONAL,
    ...
)

DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container ( { RL-InformationItemIE-RL-ReconfRqstFDD } )

RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    ( ID      id-RL-InformationItem-RL-ReconfRqstFDD      CRITICALITY    reject
    TYPE      RL-InformationItem-RL-ReconfRqstFDD          PRESENCE      mandatory)
}

RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE (
    rL-ID                                  RL-ID,
    maxDL-Power                            DL-Power                                OPTIONAL,
    minDL-Power                            DL-Power                                OPTIONAL,
    dl-CodeInformation                      FDD-DL-CodeInformation                OPTIONAL,
    -- The IE shall be present if the Transmission Gap Pattern Sequence Information IE is included and
    the indicated Downlink Compressed Mode method for at least one of the included Transmission Gap
    Pattern Sequence is set to "SF/2".
    iE-Extensions                          ProtocolExtensionContainer ( { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs } ) OPTIONAL,
    ...
)

```

```

RL-InformationItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

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

RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY reject
    TYPE NodeB-CommunicationContextID             PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify
    TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify
    TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify
    TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify
    TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE optional } |
    { ID id-TDD-DCHs-to-Modify                     CRITICALITY reject
    TYPE TDD-DCHs-to-Modify                       PRESENCE optional } |
    { ID id-DCHs-to-Add-TDD                        CRITICALITY reject
    TYPE DCH-TDD-Information                      PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD       CRITICALITY reject
    TYPE DCH-DeleteList-RL-ReconfRqstTDD        PRESENCE optional } |
    { ID id-RL-Information-RL-ReconfRqstTDD       CRITICALITY reject
    TYPE RL-Information-RL-ReconfRqstTDD        PRESENCE optional },
    ...
}

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

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF
ProtocolIE-Single-Container ({ UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD})

UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify
    TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE mandatory }
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCCTrCH-ID          CCTrCH-ID,
    tFCS                TFCS          OPTIONAL,
    punctureLimit       PunctureLimit OPTIONAL,
    IE-Extensions       ProtocolExtensionContainer ({ UL-CCTrCH-
        InformationModifyItem-RL-ReconfRqstTDD-ExtIEs )
        OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE
    optional },
    -- Applicable to 1.28Mcps TDD only
    ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF
ProtocolIE-Single-Container ({ UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD})

UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD CRITICALITY notify
    TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD PRESENCE mandatory }
}

```

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```

)

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCtRCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer ( { UL-CCTrCH-
                                InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } )
                                OPTIONAL,
    ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF
ProtocolIE-Single-Container ( { DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD} )

DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          CRITICALITY    notify
TYPE      DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD          PRESENCE      mandatory}
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCtRCH-ID                CCTrCH-ID,
    tFCS                     TFCS            OPTIONAL,
    punctureLimit            PunctureLimit   OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer ( { DL-CCTrCH-
                                InformationModifyItem-RL-ReconfRqstTDD-ExtIEs } )
                                OPTIONAL,
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF
ProtocolIE-Single-Container ( { DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD} )

DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          CRITICALITY    notify
TYPE      DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          PRESENCE      mandatory}
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCtRCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer ( { DL-CCTrCH-
                                InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } )
                                OPTIONAL,
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-
ReconfRqstTDD

DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    iE-Extensions            ProtocolExtensionContainer ( { DCH-DeleteItem-
                                RL-ReconfRqstTDD-ExtIEs } )          OPTIONAL,
    ...
}

DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    maxDL-Power              DL-Power        OPTIONAL,
    minDL-Power              DL-Power        OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer ( ( RL-InformationItem-

```

```

                                RL-ReconfRqstTDD-ExtIEs) }           OPTIONAL,
)
...
)
RL-InformationItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  { ID id-UL-Synchronisation-Parameters-LCR           CRITICALITY ignore      EXTENSION  UL-
  Synchronisation-Parameters-LCR PRESENCE optional },
  -- Applicable to 1.28Mcps TDD only
  ...
)
-- *****
--
-- RADIO LINK RECONFIGURATION RESPONSE
--
-- *****

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

RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= (
  { ID id-CRNC-CommunicationContextID           CRITICALITY ignore      TYPE      CRNC-
  CommunicationContextID
  PRESENCE mandatory } |
  { ID id-RL-InformationResponseList-RL-ReconfRsp CRITICALITY ignore      TYPE      RL-
  InformationResponseList-RL-ReconfRsp
  PRESENCE optional } |
  { ID id-CriticalityDiagnostics               CRITICALITY ignore      TYPE
  CriticalityDiagnostics
  PRESENCE optional },
  ...
)

RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= (
  ...
)

RL-InformationResponseList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-
Container {{RL-InformationResponseItemIE-RL-ReconfRsp}}

RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= (
  { ID id-RL-InformationResponseItem-RL-ReconfRsp CRITICALITY ignore
  TYPE      RL-InformationResponseItem-RL-ReconfRsp PRESENCE mandatory}
)

RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
  rL-ID           RL-ID,
  dCH-InformationResponseList-RL-ReconfRsp DCH-InformationResponseList-RL-ReconfRsp OPTIONAL,
  iE-Extensions   ProtocolExtensionContainer ( { RL-
  InformationResponseItem-RL-ReconfRsp-ExtIEs} )
  OPTIONAL,
  ...
}

RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
  ...
)

DCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-Single-Container ( { DCH-
InformationResponseListIEs-RL-ReconfRsp } )

DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= (
  ( ID id-DCH-InformationResponse CRITICALITY ignore      TYPE DCH-InformationResponse PRESENCE
  mandatory )
)
-- *****
--

```

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-- RADIO LINK DELETION REQUEST

--

-- \*\*\*\*\*

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

```
RadioLinkDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID          CRITICALITY    reject
  TYPE      NodeB-CommunicationContextID             PRESENCE        mandatory    } |
    { ID      id-CRNC-CommunicationContextID          CRITICALITY    reject
  TYPE      CRNC-CommunicationContextID              PRESENCE        mandatory    } |
    { ID      id-RL-informationList-RL-DeletionRqst   CRITICALITY    notify
  TYPE      RL-informationList-RL-DeletionRqst       PRESENCE        mandatory    } ,
    ...
}
```

```
RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
RL-informationList-RL-DeletionRqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-informationItemIE-RL-DeletionRqst}}
```

```
RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= {
    { ID      id-RL-informationItem-RL-DeletionRqst   CRITICALITY    notify
  TYPE      RL-informationItem-RL-DeletionRqst       PRESENCE        mandatory}
}
```

```
RL-informationItem-RL-DeletionRqst ::= SEQUENCE {
    rL-ID          RL-ID,
    iE-Extensions ProtocolExtensionContainer { { RL-informationItem-RL-DeletionRqst-ExtIEs} } OPTIONAL,
    ...
}
```

```
RL-informationItem-RL-DeletionRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

-- \*\*\*\*\*

--

-- RADIO LINK DELETION RESPONSE

--

-- \*\*\*\*\*

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

```
RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID          CRITICALITY    ignore      TYPE      CRNC-CommunicationContextID PRESENCEmandatory } |
    { ID      id-CriticalityDiagnostics              CRITICALITY    ignore      TYPE      CriticalityDiagnostics PRESENCEoptional},
    ...
}
```

```
RadioLinkDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

-- \*\*\*\*\*

--

-- DL POWER CONTROL REQUEST FDD

--

-- \*\*\*\*\*

```

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

DL-PowerControlRequest-IEs NBAP-PROTOCOL-IES ::= {
    ( ID id-NodeB-CommunicationContextID          CRITICALITY ignore          TYPE          NodeB-
      CommunicationContextID PRESENCE mandatory ) |
    ( ID id-PowerAdjustmentType                   CRITICALITY ignore          TYPE PowerAdjustmentType
      PRESENCE mandatory) |
    ( ID id-DLReferencePower                      CRITICALITY ignore          TYPE DL-Power
      PRESENCE conditional) |
    -- This IE shall be present if the Adjustment Type IE is set to 'Common'
    ( ID id-InnerLoopDLPCStatus                   CRITICALITY ignore          TYPE InnerLoopDLPCStatus
      PRESENCE optional ) |
    ( ID id-DLReferencePowerList-DL-PC-Rqst       CRITICALITY ignore          TYPE DL-
      ReferencePowerInformationList-DL-PC-Rqst
      PRESENCE conditional ) |
    -- This IE shall be present if the Adjustment Type IE is set to 'Individual'
    ( ID id-MaxAdjustmentStep                     CRITICALITY ignore          TYPE MaxAdjustmentStep
      PRESENCE conditional) |
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
    ( ID id-AdjustmentPeriod                      CRITICALITY ignore          TYPE AdjustmentPeriod
      PRESENCE conditional ) |
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
    ( ID id-AdjustmentRatio                       CRITICALITY ignore          TYPE ScaledAdjustmentRatio
      PRESENCE conditional ),
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
    ...
}

DL-PowerControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-ReferencePowerInformationList-DL-PC-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-
Single-Container {{DL-ReferencePowerInformationItemIE-DL-PC-Rqst }}

DL-ReferencePowerInformationItemIE-DL-PC-Rqst NBAP-PROTOCOL-IES ::= {
    ( ID id-DL-ReferencePowerInformationItem-DL-PC-Rqst CRITICALITY ignore          TYPE          DL-
      ReferencePowerInformationItem-DL-PC-Rqst          PRESENCE mandatory
    )
}

DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
    rL-ID                      RL-ID,
    dl-ReferencePower          DL-Power,
    iE-Extensions              ProtocolExtensionContainer ( { DL-
      ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs } )
    OPTIONAL,
    ...
}

DL-ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

-- *****
--
-- DL POWER TIMESLOT CONTROL REQUEST TDD
--
-- *****

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

DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
    ( ID id-NodeB-CommunicationContextID          CRITICALITY ignore          TYPE          NodeB-

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        CommunicationContextID PRESENCE mandatory } |
        { ID id-TimeslotISCPInfo          CRITICALITY ignore          TYPE DL-
        TimeslotISCPInfo                PRESENCE optional },
        -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    }
    ...
}

DL-PowerTimeslotControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD          CRITICALITY ignore          EXTENSION DL-
    TimeslotISCPInfoList-LCR                             PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

-- *****
--
-- DEDICATED MEASUREMENT INITIATION REQUEST
--
-- *****

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

DedicatedMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY reject          TYPE
    NodeB-CommunicationContextID
    PRESENCE mandatory } |
    { ID id-MeasurementID                        CRITICALITY reject          TYPE
    MeasurementID PRESENCE mandatory } |
    { ID id-DedicatedMeasurementObjectType-DM-Rqst CRITICALITY reject          TYPE
    DedicatedMeasurementObjectType-DM-Rqst
    PRESENCE mandatory } |
    { ID id-DedicatedMeasurementType             CRITICALITY reject          TYPE
    DedicatedMeasurementType
    PRESENCE mandatory } |
    { ID id-MeasurementFilterCoefficient         CRITICALITY reject          TYPE
    MeasurementFilterCoefficient
    PRESENCE optional } |
    { ID id-ReportCharacteristics               CRITICALITY reject          TYPE
    ReportCharacteristics
    PRESENCE mandatory } |
    { ID id-CFNReportingIndicator               CRITICALITY reject          TYPE
    CFNReportingIndicator
    PRESENCE mandatory } |
    { ID id-CFN                                 CRITICALITY reject          TYPE
    PRESENCE optional },
    ...
}

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

DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
    rL          RL-DM-Rqst,
    rLS         RL-Set-DM-Rqst, -- for FDD only
    all-RL      AllRL-DM-Rqst,
    all-RLS     AllRL-Set-DM-Rqst, -- for FDD only
    ...
}

RL-DM-Rqst ::= SEQUENCE {
    rL-InformationList          RL-InformationList-DM-Rqst,
    iE-Extensions              ProtocolExtensionContainer { { RLItem-DM-Rqst-ExtIEs } }
    ...
}

RLItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

}

RL-InformationList-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container ( { RL-
InformationItemIE-DM-Rqst } )

RL-InformationItemIE-DM-Rqst NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-DM-Rqst  CRITICALITY reject TYPE RL-InformationItem-DM-Rqst
  PRESENCE mandatory }
}

RL-InformationItem-DM-Rqst ::= SEQUENCE (
  rL-ID          RL-ID,
  dPCH-ID        DPCH-ID          OPTIONAL,  -- for TDD only
  iE-Extensions  ProtocolExtensionContainer { ( RL-InformationItem-DM-Rqst-
  ExtIEs ) }      OPTIONAL,
  ...
)

RL-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PUSCH-Info-DM-Rqst  CRITICALITY reject EXTENSION  PUSCH-Info-DM-Rqst  PRESENCE
  optional),
  -- TDD only
  ...
}

PUSCH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID

RL-Set-DM-Rqst ::= SEQUENCE (
  rL-Set-InformationList-DM-Rqst  RL-Set-InformationList-DM-Rqst,
  iE-Extensions                    ProtocolExtensionContainer { ( RL-SetItem-DM-Rqst-
  ExtIEs ) }                      OPTIONAL,
  ...
)

RL-SetItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-InformationList-DM-Rqst ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-
InformationItem-DM-Rqst

RL-Set-InformationItem-DM-Rqst ::= SEQUENCE (
  rL-Set-ID          RL-Set-ID,
  iE-Extensions      ProtocolExtensionContainer { ( RL-Set-InformationItem-DM-Rqst-
  ExtIEs ) }          OPTIONAL,
  ...
)

RL-Set-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AllRL-DM-Rqst ::= NULL

AllRL-Set-DM-Rqst ::= NULL

-- *****
--
-- DEDICATED MEASUREMENT INITIATION RESPONSE
--
-- *****

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

DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID  CRITICALITY ignore TYPE
  CRNC-CommunicationContextID
  PRESENCE mandatory } |
  { ID id-MeasurementID                CRITICALITY ignore TYPE
}

```

```

    { ID id-DedicatedMeasurementObjectType-DM-Rsp
      MeasurementID PRESENCE mandatory } |
      CRITICALITY ignore TYPE
      DedicatedMeasurementObjectType-DM-Rsp
      PRESENCE optional } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE
      CriticalityDiagnostics
      PRESENCE optional },
    ...
  }

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

DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
  rL RL-DM-Rsp,
  rLS RL-Set-DM-Rsp, -- for FDD only
  all-RL RL-DM-Rsp,
  all-RLS RL-Set-DM-Rsp, -- for FDD only
  ...
}

RL-DM-Rsp ::= SEQUENCE {
  rL-InformationList-DM-Rsp RL-InformationList-DM-Rsp,
  iE-Extensions ProtocolExtensionContainer ( { RLItem-DM-Rsp-ExtIEs } )
  OPTIONAL,
  ...
}

RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container ( { RL-
InformationItemIE-DM-Rsp } )

RL-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-DM-Rsp CRITICALITY ignore TYPE RL-InformationItem-DM-Rsp
  PRESENCE mandatory }
}

RL-InformationItem-DM-Rsp ::= SEQUENCE {
  rL-ID RL-ID,
  dpCH-ID DPCH-ID OPTIONAL, -- for TDD only
  dedicatedMeasurementValue DedicatedMeasurementValue,
  cFN CFN OPTIONAL,
  iE-Extensions ProtocolExtensionContainer ( { RL-InformationItem-DM-Rsp-
  ExtIEs } ) OPTIONAL,
  ...
}

RL-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PUSCH-Info-DM-Rsp CRITICALITY reject EXTENSION PUSCH-Info-DM-Rsp PRESENCE
  optional),
  -- TDD only
  ...
}

PUSCH-Info-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID

RL-Set-DM-Rsp ::= SEQUENCE {
  rL-Set-InformationList-DM-Rsp RL-Set-InformationList-DM-Rsp,
  iE-Extensions ProtocolExtensionContainer ( { RL-SetItem-DM-Rsp-ExtIEs } )
  OPTIONAL,
  ...
}

RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container
( { RL-Set-InformationItemIE-DM-Rsp } )

RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {

```

```

    ( ID id-RL-Set-InformationItem-DM-Rsp          CRITICALITY ignore      TYPE      RL-Set-
InformationItem-DM-Rsp PRESENCE mandatory)
}

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID          RL-Set-ID,
    dedicatedMeasurementValue    DedicatedMeasurementValue,
    cFN                CFN          OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer ( { RL-Set-InformationItem-DM-Rsp-
ExtIEs} ) OPTIONAL,
    ...
}

RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- DEDICATED MEASUREMENT INITIATION FAILURE
--
-- *****

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

DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
    ( ID    id-CRNC-CommunicationContextID          CRITICALITY   ignore          TYPE      CRNC-
CommunicationContextID
    PRESENCE   mandatory ) |
    ( ID    id-MeasurementID                        CRITICALITY   ignore          TYPE      MeasurementID
    PRESENCE   mandatory ) |
    ( ID    id-Cause                                CRITICALITY   ignore          TYPE      Cause
    PRESENCE   mandatory ) |
    ( ID    id-CriticalityDiagnostics                CRITICALITY   ignore          TYPE      CriticalityDiagnostics
    PRESENCE   optional ) ,
    ...
}

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

-- *****
--
-- DEDICATED MEASUREMENT REPORT
--
-- *****

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

DedicatedMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    ( ID    id-CRNC-CommunicationContextID          CRITICALITY   ignore
TYPE      CRNC-CommunicationContextID          PRESENCE   mandatory ) |
    ( ID    id-MeasurementID                        CRITICALITY   ignore
TYPE      MeasurementID                        PRESENCE   mandatory ) |
    ( ID    id-DedicatedMeasurementObjectType-DM-Rprt
TYPE      DedicatedMeasurementObjectType-DM-Rprt          PRESENCE   mandatory ) ,
    ...
}

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

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {

```

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```

    rL
    rLS
    all-RL
    all-RLS
    ...
}

RL-DM-Rprt ::= SEQUENCE {
    rL-InformationList-DM-Rprt
    iE-Extensions
    ...
}

RL-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container (( RL-
InformationItemIE-DM-Rprt ))

RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt
    PRESENCE mandatory }
}

RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-ID
    dPCH-ID
    dedicatedMeasurementValueInformation
    iE-Extensions
    ...
}

RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-Info-DM-Rprt CRITICALITY reject EXTENSION PUSCH-Info-DM-Rprt PRESENCE
optional},
    -- TDD only
    ...
}

PUSCH-Info-DM-Rprt ::= SEQUENCE (SIZE (0..maxNrOfPUSCHs)) OF PUSCH-ID

RL-Set-DM-Rprt ::= SEQUENCE {
    rL-Set-InformationList-DM-Rprt
    iE-Extensions
    ...
}

RL-SetItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container
(( RL-Set-InformationItemIE-DM-Rprt ))

RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt
    PRESENCE mandatory }
}

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-Set-ID
    dedicatedMeasurementValueInformation
    iE-Extensions
    ...
}

RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- *****
--
-- DEDICATED MEASUREMENT TERMINATION REQUEST
--
-- *****

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

DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID      CRITICALITY  ignore          TYPE      NodeB-
        CommunicationContextID      PRESENCE  mandatory } |
    { ID      id-MeasurementID                    CRITICALITY  ignore          TYPE      MeasurementID      PRESENCE  mandatory },
    ...
}

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

-- *****
--
-- DEDICATED MEASUREMENT FAILURE INDICATION
--
-- *****

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

DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID      CRITICALITY  ignore          TYPE      CRNC-
        CommunicationContextID      PRESENCE  mandatory } |
    { ID      id-MeasurementID                    CRITICALITY  ignore          TYPE      MeasurementID      PRESENCE  mandatory } |
    { ID      id-Cause                            CRITICALITY  ignore          TYPE      Cause                PRESENCE  mandatory },
    ...
}

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

-- *****
--
-- RADIO LINK FAILURE INDICATION
--
-- *****

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

RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CRNC-CommunicationContextID      CRITICALITY  ignore          TYPE      CRNC-
        CommunicationContextID      PRESENCE  mandatory } |
    { ID      id-Reporting-Object-RL-FailureInd  CRITICALITY  ignore          TYPE      Reporting-Object-RL-FailureInd
        PRESENCE  mandatory },
    ...
}

```

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```

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

Reporting-Object-RL-FailureInd ::= CHOICE {
    rL                RL-RL-FailureInd,
    rL-Set            RL-Set-RL-FailureInd, --FDD only
    ...,
    CCTrCH           CCTrCH-RL-FailureInd --TDD only
}

RL-RL-FailureInd ::= SEQUENCE {
    rL-InformationList-RL-FailureInd    RL-InformationList-RL-FailureInd,
    iE-Extensions                       ProtocolExtensionContainer ( { RLItem-RL-FailureInd-
                                         ExtIEs } ) OPTIONAL,
    ...
}

RLItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
({ RL-InformationItemIE-RL-FailureInd})

RL-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID    id-RL-InformationItem-RL-FailureInd    CRITICALITY    ignore        TYPE    RL-
InformationItem-RL-FailureInd    PRESENCE    mandatory)
}

RL-InformationItem-RL-FailureInd ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                Cause,
    iE-Extensions        ProtocolExtensionContainer ( { RL-InformationItem-
RL-FailureInd-ExtIEs } ) OPTIONAL,
    ...
}

RL-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-RL-FailureInd ::= SEQUENCE {
    rL-Set-InformationList-RL-FailureInd    RL-Set-InformationList-RL-FailureInd,
    iE-Extensions                           ProtocolExtensionContainer ( { RL-SetItem-RL-FailureInd-
ExtIEs } ) OPTIONAL,
    ...
}

RL-SetItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-
Container ( { RL-Set-InformationItemIE-RL-FailureInd } )

RL-Set-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-RL-FailureInd    CRITICALITY    ignore        TYPE    RL-Set-
InformationItem-RL-FailureInd    PRESENCE    mandatory }
}

RL-Set-InformationItem-RL-FailureInd ::= SEQUENCE {
    rL-Set-ID            RL-Set-ID,
    cause                Cause,
    iE-Extensions        ProtocolExtensionContainer ( { RL-Set-InformationItem-RL-FailureInd-
ExtIEs } ) OPTIONAL,
    ...
}

RL-Set-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCTrCH-RL-FailureInd ::= SEQUENCE {

```

```

    rL-ID                RL-ID,
    cCtRCH-InformationList-RL-FailureInd  CcTrCH-InformationList-RL-FailureInd,
    iE-Extensions        ProtocolExtensionContainer ( { CcTrCHItem-RL-FailureInd-
    ...                  ExtIEs } )      OPTIONAL,
  }
}

CcTrCHItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CcTrCH-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfCcTrCHs)) OF ProtocolIE-Single-
Container ( { CcTrCH-InformationItemIE-RL-FailureInd} )

CcTrCH-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
  ( ID      id-CcTrCH-InformationItem-RL-FailureInd      CRITICALITY  ignore
  TYPE     CcTrCH-InformationItem-RL-FailureInd          PRESENCE     mandatory )
}

CcTrCH-InformationItem-RL-FailureInd ::= SEQUENCE {
  cCtRCH-ID          CcTrCH-ID,
  cause              Cause,
  iE-Extensions      ProtocolExtensionContainer ( { CcTrCH-
  ...                InformationItem-RL-FailureInd-ExtIEs } )
  ...                OPTIONAL,
}

CcTrCH-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK PREEMPTION REQUIRED INDICATION
--
-- *****

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

RadioLinkPreemptionRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
  ( ID      id-CRNC-CommunicationContextID      CRITICALITY  ignore
  TYPE     CRNC-CommunicationContextID          PRESENCE     mandatory ) |
  ( ID     id-RL-InformationList-RL-PreemptRequiredInd  CRITICALITY  ignore  TYPE  RL-InformationList-
  RL-PreemptRequiredInd  PRESENCE  optional  ),
  ...
}

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

RL-InformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
ProtocolIE-Single-Container ( {RL-InformationItemIE-RL-PreemptRequiredInd} )

RL-InformationItemIE-RL-PreemptRequiredInd NBAP-PROTOCOL-IES ::= {
  ( ID     id-RL-InformationItem-RL-PreemptRequiredInd  CRITICALITY  ignore  TYPE  RL-
  InformationItem-RL-PreemptRequiredInd  PRESENCE  mandatory  ),
  ...
}

RL-InformationItem-RL-PreemptRequiredInd ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions  ProtocolExtensionContainer ( {RL-InformationItem-RL-
  ...            PreemptRequiredInd-ExtIEs } ) OPTIONAL,
}
}

```

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```

RL-InformationItem-RL-PreemptRequiredInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
-- RADIO LINK RESTORE INDICATION
-- *****

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

RadioLinkRestoreIndication-IEs NBAP-PROTOCOL-IES ::= (
    { ID      id-CRNC-CommunicationContextID          CRITICALITY ignore          TYPE
      CRNC-CommunicationContextID
      PRESENCE mandatory } |
    { ID      id-Reporting-Object-RL-RestoreInd      CRITICALITY ignore          TYPE
      Reporting-Object-RL-RestoreInd
      PRESENCE mandatory },
    ...
)

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

Reporting-Object-RL-RestoreInd ::= CHOICE {
    rL              RL-RL-RestoreInd, --TDD only
    rL-Set          RL-Set-RL-RestoreInd, --FDD only
    ...
    cCTrCH         CCTrCH-RL-RestoreInd --TDD only
}

RL-RL-RestoreInd ::= SEQUENCE (
    rL-InformationList-RL-RestoreInd      RL-InformationList-RL-RestoreInd,
    iE-Extensions                         ProtocolExtensionContainer ( { RLItem-RL-RestoreInd-
                                     ExtIEs } )      OPTIONAL,
    ...
)

RLItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
{{(RL-InformationItemIE-RL-RestoreInd)}}

RL-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= (
    { ID      id-RL-InformationItem-RL-RestoreInd      CRITICALITY ignore          TYPE      RL-
      InformationItem-RL-RestoreInd
      PRESENCE mandatory}
)

RL-InformationItem-RL-RestoreInd ::= SEQUENCE (
    rL-ID              RL-ID,
    iE-Extensions      ProtocolExtensionContainer ( { RL-InformationItem-RL-
      RestoreInd-ExtIEs } )      OPTIONAL,
    ...
)

RL-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-RL-RestoreInd ::= SEQUENCE (
    rL-Set-InformationList-RL-RestoreInd      RL-Set-InformationList-RL-RestoreInd,
    iE-Extensions                         ProtocolExtensionContainer ( { RL-SetItem-RL-RestoreInd-
                                     ExtIEs } )      OPTIONAL,
    ...
)

```



```

RL-SetItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

RL-Set-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-
Container {{ RL-Set-InformationItemIE-RL-RestoreInd }}

RL-Set-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
    ( ID id-RL-Set-InformationItem-RL-RestoreInd    CRITICALITY ignore      TYPE RL-Set-
InformationItem-RL-RestoreInd    PRESENCE mandatory )
}

RL-Set-InformationItem-RL-RestoreInd ::= SEQUENCE {
    rL-Set-ID          RL-Set-ID,
    iE-Extensions      ProtocolExtensionContainer { ( RL-Set-InformationItem-RL-RestoreInd-
ExtIEs ) } OPTIONAL,
    ...
}

RL-Set-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

CCTrCH-RL-RestoreInd ::= SEQUENCE {
    rL-ID              RL-ID,
    cCTrCH-InformationList-RL-RestoreInd  CCTrCH-InformationList-RL-RestoreInd,
    iE-Extensions      ProtocolExtensionContainer { ( CCTrCHItem-RL-RestoreInd-
ExtIEs ) } OPTIONAL,
    ...
}

CCTrCHItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCTrCH-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-
Container {{ CCTrCH-InformationItemIE-RL-RestoreInd }}

CCTrCH-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
    ( ID id-CCTrCH-InformationItem-RL-RestoreInd    CRITICALITY ignore
TYPE CCTrCH-InformationItem-RL-RestoreInd    PRESENCE mandatory)
}

CCTrCH-InformationItem-RL-RestoreInd ::= SEQUENCE {
    cCCTrCH-ID        CCTrCH-ID,
    iE-Extensions      ProtocolExtensionContainer { ( CCTrCH-
InformationItem-RL-RestoreInd-ExtIEs ) }
OPTIONAL,
    ...
}

CCTrCH-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

-- *****
--
-- COMPRESSED MODE COMMAND FDD
--
-- *****

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

CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-
CommunicationContextID PRESENCE mandatory } |
    { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-
Pattern-Sequence-Information PRESENCE mandatory },
    ...
}

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

-- *****
-- ERROR INDICATION
-- *****

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

ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-
CommunicationContextID PRESENCE optional } |
    { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-
CommunicationContextID PRESENCE optional } |
    { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE
CriticalityDiagnostics PRESENCE optional },
    ...
}

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

-- *****
-- PRIVATE MESSAGE
-- *****

PrivateMessage ::= SEQUENCE {
    privateIEs PrivateIE-Container {(PrivateMessage-IEs)},
    ...
}

PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
    ...
}

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

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

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } |
    { ID id-SFN CRITICALITY reject TYPE SFN
}

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```

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

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

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

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

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

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

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

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

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

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

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tPCI-Presence TPCI-Presence,
    dL-Code-InformationAddList-PSCH-ReconfRqst DL-Code-InformationAddList-PSCH-ReconfRqst,
}

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    iE-Extensions
    ...
}

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

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

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

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

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

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

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

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR              TimeSlotLCR,
    midambleShiftLCR        MidambleShiftLCR,
    tPCI-Presence            TPCI-Presence,
    dl-Code-InformationAddList-LCR-PSCH-ReconfRqst DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions           ProtocolExtensionContainer ( { DL-Timeslot-
                           InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } )
                           OPTIONAL,
    ...
}

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

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```

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

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

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

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

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

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

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

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

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

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

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

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

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

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                  PUSCHSet-ID,
    pUSCH-InformationList        PUSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,

```

```

-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
iE-Extensions          ProtocolExtensionContainer ( {PUSCHSets-AddItem-
                                PSCH-ReconfRqst-ExtIEs} )          OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

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

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE (
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst UL-Timeslot-InformationAddList-LCR-PSCH-
ReconfRqst,

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iE-Extensions                               ProtocolExtensionContainer ( {PUSCH-
...                                           AddInformation-LCR-AddItem-PSCH-ReconfRqst-
)                                           ExtIEs} }      OPTIONAL,

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

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

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

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

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

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

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

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

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE (
pUSCHSet-ID                               PUSCHSet-ID,
pUSCH-InformationList                     PUSCH-Information-ModifyList-PSCH-ReconfRqst,
iE-Extensions                             ProtocolExtensionContainer { (PUSCHSets-ModifyItem-
PSCH-ReconfRqst-ExtIEs) }      OPTIONAL,
...
)

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

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

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

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
repetitionPeriod                          RepetitionPeriod          OPTIONAL,
repetitionLength                          RepetitionLength          OPTIONAL,
tdd-PhysicalChannelOffset                  TDD-PhysicalChannelOffset  OPTIONAL,

```



```

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst  UL-Timeslot-InformationModifyList-PSCH-
iE-Extensions                                     ReconfRqst      OPTIONAL,
                                                    ProtocolExtensionContainer { {PUSCH-
                                                    Information-ModifyItem-PSCH-ReconfRqst-
                                                    ExtIEs} }      OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

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

```

```

}
...
}
UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-
LCR-InformationModifyItem-PSCH-ReconfRqst
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID PUSCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions ProtocolExtensionContainer ( { UL-Code-LCR-
InformationModifyItem-PSCH-ReconfRqst-ExtIEs} )
OPTIONAL,
...
}
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-
DeleteItem-PSCH-ReconfRqst
PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID PUSCHSet-ID,
    iE-Extensions ProtocolExtensionContainer ( {PUSCHSets-DeleteItem-
PSCH-ReconfRqst-ExtIEs} ) OPTIONAL,
...
}
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE TDD
--
-- *****
PhysicalSharedChannelReconfigurationResponseTDD ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{PhysicalSharedChannelReconfigurationResponseTDD-
IEs}},
    protocolExtensions ProtocolExtensionContainer
{{PhysicalSharedChannelReconfigurationResponseTDD-Extensions}} OPTIONAL,
...
}
PhysicalSharedChannelReconfigurationResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    ( ID id-CriticalityDiagnostics CRITICALITY ignore TYPE
    CriticalityDiagnostics PRESENCE optional ),
...
}
PhysicalSharedChannelReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE TDD
--
-- *****
PhysicalSharedChannelReconfigurationFailureTDD ::= SEQUENCE {
    ProtocolIEs ProtocolIE-Container {{PhysicalSharedChannelReconfigurationFailureTDD-IEs}},
    ProtocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationFailureTDD-
Extensions}} OPTIONAL,
...
}

```

```

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

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

CauseLevel-PSCH-ReconfFailureTDD ::= CHOICE {
  generalCause          GeneralCauseList-PSCH-ReconfFailureTDD,
  setSpecificCause     SetSpecificCauseList-PSCH-ReconfFailureTDD,
  ...
}

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

GeneralCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SetSpecificCauseList-PSCH-ReconfFailureTDD ::= SEQUENCE {
  unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD
    OPTIONAL,
  unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD
    OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer
    { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-
    ExtIEs } }      OPTIONAL,
  ...
}

SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPDSCHSets)) OF
ProtocolIE-Single-Container ( { Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD } )

Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
  { ID      id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore  TYPE
    Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD PRESENCE mandatory }
}

Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
  pDSCHSet-ID         PDSCHSet-ID,
  cause               Cause,
  iE-Extensions       ProtocolExtensionContainer { {Unsuccessful-PDSCHSetItem-PSCH-
    ReconfFailureTDD-ExtIEs } }      OPTIONAL,
  ...
}

Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPUSCHSets)) OF
ProtocolIE-Single-Container ( { Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD } )

Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
  { ID      id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore  TYPE
    Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD PRESENCE mandatory }
}

Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
  pUSCHSet-ID         PUSCHSet-ID,
  cause               Cause,
}

```

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    iE-Extensions          ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-
    ReconfFailureTDD-ExtIEs} }          OPTIONAL,
    ...
}

Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RESET REQUEST
--
-- *****

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

ResetRequest-IEs NBAP-PROTOCOL-IES ::= {
    {ID id-ResetIndicator    CRITICALITY ignore    TYPE    ResetIndicator    PRESENCE
    mandatory},
    ...
}

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

ResetIndicator ::= CHOICE {
    communicationContext    CommunicationContextList-Reset,
    communicationControlPort    CommunicationControlPortList-Reset,
    nodeB                    NULL,
    ...
}

CommunicationContextList-Reset ::= SEQUENCE {
    communicationContextInfoList-Reset    CommunicationContextInfoList-Reset,
    iE-Extensions                        ProtocolExtensionContainer { {CommunicationContextItem-
    Reset-ExtIEs} }    OPTIONAL,
    ...
}

CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext)) OF
ProtocolIE-Single-Container { { CommunicationContextInfoItemIE-Reset } }

CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationContextInfoItem-Reset    CRITICALITY reject    TYPE
    CommunicationContextInfoItem-Reset    PRESENCE mandatory}
}

CommunicationContextInfoItem-Reset ::= SEQUENCE {
    communicationContextType-Reset    CommunicationContextType-Reset,

```

```

iE-Extensions                                ProtocolExtensionContainer
                                              ( { CommunicationContextInfoItem-Reset-ExtIEs } )
                                              OPTIONAL,
...
}

CommunicationContextInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CommunicationContextType-Reset ::= CHOICE {
  cRNC-CommunicationContextID                CRNC-CommunicationContextID,
  nodeB-CommunicationContextID              NodeB-CommunicationContextID,
...
}

CommunicationControlPortList-Reset ::= SEQUENCE {
  communicationControlPortInfoList-Reset    CommunicationControlPortInfoList-Reset,
  iE-Extensions                             ProtocolExtensionContainer
                                              ( { CommunicationControlPortItem-Reset-ExtIEs } )
                                              OPTIONAL,
...
}

CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-
Single-Container ( { CommunicationControlPortInfoItemIE-Reset } )

CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
  { ID id-CommunicationControlPortInfoItem-Reset          CRITICALITY reject          TYPE
CommunicationControlPortInfoItem-Reset          PRESENCE mandatory)
}

CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
  communicationControlPortID                CommunicationControlPortID,
  iE-Extensions                             ProtocolExtensionContainer
                                              ( { CommunicationControlPortInfoItem-Reset-ExtIEs } ) OPTIONAL,
...
}

CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RESET RESPONSE
--
-- *****

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

```

```

}

ResetResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE
    optional),
  ...
}

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

-- *****
--
-- INFORMATION EXCHANGE INITIATION REQUEST
--
-- *****

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

InformationExchangeInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-InformationExchangeID          CRITICALITY reject          TYPE
    InformationExchangeID
    PRESENCE mandatory }|
  { ID id-InformationExchangeObjectType-InfEx-Rqst CRITICALITY reject          TYPE
    InformationExchangeObjectType-InfEx-Rqst
    PRESENCE mandatory }|
  { ID id-InformationType                 CRITICALITY reject          TYPE
    InformationType PRESENCE mandatory }|
  { ID id-InformationReportCharacteristics CRITICALITY reject          TYPE
    InformationReportCharacteristics
    PRESENCE mandatory},
  ...
}

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

InformationExchangeObjectType-InfEx-Rqst ::= CHOICE {
  cell                Cell-InfEx-Rqst,
  ...
}

Cell-InfEx-Rqst ::= SEQUENCE {
  c-ID                C-ID,
  iE-Extensions      ProtocolExtensionContainer { ( CellItem-InfEx-Rqst-ExtIEs) }
    OPTIONAL,
  ...
}

CellItem-InfEx-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- INFORMATION EXCHANGE INITIATION RESPONSE
--
-- *****

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

InformationExchangeInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-InformationExchangeID          CRITICALITY ignore          TYPE

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InformationExchangeID
PRESENCE mandatory }|
{ ID id-InformationExchangeObjectType-InfEx-Rsp CRITICALITY ignore TYPE
InformationExchangeObjectType-InfEx-Rsp
PRESENCE optional }|
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE
CriticalityDiagnostics
PRESENCE optional },
...
}

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

InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
cell Cell-InfEx-Rsp,
...
}

Cell-InfEx-Rsp ::= SEQUENCE {
requestedDataValue RequestedDataValue,
iE-Extensions ProtocolExtensionContainer { ( CellItem-InfEx-Rsp-ExtIEs )
OPTIONAL,
...
}

CellItem-InfEx-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- INFORMATION EXCHANGE INITIATION FAILURE
--
-- *****

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

InformationExchangeInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-InformationExchangeID CRITICALITY ignore TYPE
InformationExchangeID PRESENCE mandatory}|
{ ID id-Cause CRITICALITY ignore TYPE Cause
PRESENCE mandatory }|
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE
CriticalityDiagnostics PRESENCE optional },
...
}

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

-- *****
--
-- INFORMATION REPORT
--
-- *****

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

InformationReport-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-InformationExchangeID CRITICALITY ignore TYPE
InformationExchangeID
PRESENCE mandatory }|

```

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```

    { ID      id-InformationExchangeObjectType-InfEx-Rprt CRITICALITY ignore          TYPE
      InformationExchangeObjectType-InfEx-Rprt
      PRESENCE mandatory },
    ...
}

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

InformationExchangeObjectType-InfEx-Rprt ::= CHOICE {
    cell          Cell-Inf-Rprt,
    ...
}

Cell-Inf-Rprt ::= SEQUENCE {
    requestedDataValueInformation RequestedDataValueInformation,
    iE-Extensions                 ProtocolExtensionContainer {{ CellItem-Inf-Rprt-ExtIEs }}
    OPTIONAL,
    ...
}

CellItem-Inf-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- INFORMATION EXCHANGE TERMINATION REQUEST
--
-- *****

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

InformationExchangeTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-InformationExchangeID          CRITICALITY ignore          TYPE
      InformationExchangeID          PRESENCE mandatory},
    ...
}

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

-- *****
--
-- INFORMATION EXCHANGE FAILURE INDICATION
--
-- *****

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

InformationExchangeFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-InformationExchangeID          CRITICALITY ignore          TYPE
      InformationExchangeID          PRESENCE mandatory }|
    { ID      id-Cause                          CRITICALITY ignore          TYPE
      Cause                          PRESENCE mandatory },
    ...
}

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

```



```

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

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

CellSynchronisationInitiationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

CellSynchronisationInitiationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY  reject      TYPE      C-ID
      PRESENCE  mandatory    }|
    { ID      id-cellSyncBurstRepetitionPeriod
      CRITICALITY  reject      TYPE
      CellSyncBurstRepetitionPeriod
      PRESENCE  mandatory    }|
    { ID      id-timeslotInfo-CellSyncInitiationRqstTDD
      CRITICALITY  reject      TYPE
      TimeslotInfo-CellSyncInitiationRqstTDD
      PRESENCE  mandatory    }|
    { ID      id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD
      CRITICALITY  reject      TYPE
      CellSyncBurstTransInit-
      CellSyncInitiationRqstTDD
      PRESENCE  optional    }|
    { ID      id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD
      CRITICALITY  reject      TYPE
      CellSyncBurstMeasureInit-
      CellSyncInitiationRqstTDD
      PRESENCE  optional    },
    ...
}

CellSyncBurstTransInit-CellSyncInitiationRqstTDD ::= SEQUENCE {
    csbTransmissionID      CSBTransmissionID,
    sfn                    SFN,
    cellSyncBurstCode      CellSyncBurstCode,
    cellSyncBurstCodeShift CellSyncBurstCodeShift,
    initialDLTransPower    DL-Power,
    iE-Extensions          ProtocolExtensionContainer { { CellSyncBurstTransInit-
        CellSyncInitiationRqstTDD-ExtIEs} }      OPTIONAL,
    ...
}

CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

TimeslotInfo-CellSyncInitiationRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlot

CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD ::= SEQUENCE {
    csbMeasurementID      CSBMeasurementID,
    cellSyncBurstCode      CellSyncBurstCode,
    cellSyncBurstCodeShift CellSyncBurstCodeShift,
    synchronisationReportType SynchronisationReportType,
    sfn                    SFN                                OPTIONAL,
    synchronisationReportCharacteristics SynchronisationReportCharacteristics,
    iE-Extensions          ProtocolExtensionContainer { { CellSyncBurstMeasureInit-
        CellSyncInitiationRqstTDD-ExtIEs} }      OPTIONAL,
    ...
}

CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

-- *****
--
-- CELL SYNCHRONISATION INITIATION RESPONSE 3.84Mcps TDD
--
-- *****

```

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

```
CellSynchronisationInitiationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
CellSynchronisationInitiationResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics          CRITICALITY  ignore    TYPE
      CriticalityDiagnostics                    PRESENCE     optional  },
    ...
}
```

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

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

```
CellSynchronisationInitiationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

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

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

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

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

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

```

}

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

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

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

CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container
({ CellSyncBurstMeasInfo-CellSyncReconfRqstTDD })

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

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

CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive      SyncFrameNumber,
    syncBurstInfo             CellSyncBurstInfoList-CellSyncReconfRqstTDD,
    ...
}

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

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

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

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

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

CellSynchronisationReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

```

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```

}
...
}
CellSynchronisationReconfigurationResponseTDD-IES NBAP-PROTOCOL-IES ::= {
  { ID      id-CriticalityDiagnostics          CRITICALITY      ignore      TYPE
    CriticalityDiagnostics          PRESENCE      optional    },
  ...
}
-- *****
--
-- CELL SYNCHRONISATION RECONFIGURATION FAILURE 3.84Mcps TDD
--
-- *****

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

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

CellSynchronisationReconfigurationFailureTDD-IES NBAP-PROTOCOL-IES ::= {
  { ID      id-Cause                          CRITICALITY      ignore      TYPE      Cause
    { ID      id-CriticalityDiagnostics          CRITICALITY      ignore      TYPE
      CriticalityDiagnostics          PRESENCE      mandatory    }|
      CriticalityDiagnostics          PRESENCE      optional    },
  ...
}
-- *****
--
-- CELL SYNCHRONISATION ADJUSTMENT REQUEST 3.84Mcps TDD
--
-- *****

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

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

CellSynchronisationAdjustmentRequestTDD-IES NBAP-PROTOCOL-IES ::= {
  { ID      id-CellAdjustmentInfo-SyncAdjustmntRqstTDD  CRITICALITY      ignore      TYPE      CellAdjustmentInfo-
    SyncAdjustmntRqstTDD  PRESENCE      mandatory    },
  ...
}

CellAdjustmentInfo-SyncAdjustmentRqstTDD ::= SEQUENCE (SIZE (1..maxCellInNodeB)) OF ProtocolIE-
Single-Container {( CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD )}

CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID      id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD  CRITICALITY      ignore
  TYPE      CellAdjustmentInfoItem-SyncAdjustmentRqstTDD      PRESENCE      mandatory }
}

CellAdjustmentInfoItem-SyncAdjustmentRqstTDD ::= SEQUENCE {
  c-ID              C-ID,
  frameAdjustmentValue      FrameAdjustmentValue      OPTIONAL,
  timingAdjustmentValue     TimingAdjustmentValue     OPTIONAL,
  dlTransPower          DL-Power      OPTIONAL,
  sfn                  SFN      OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { { CellAdjustmentInfoItem-
    SyncAdjustmntRqstTDD-ExtIEs } }      OPTIONAL,

```

```

)
...
CellAdjustmentInfoItem-SyncAdjustmntRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
)
...
-- *****
-- CELL SYNCHRONISATION ADJUSTMENT RESPONSE 3.84Mcps TDD
-- *****

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

CellSynchronisationAdjustmentResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= (
)
...

CellSynchronisationAdjustmentResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-CriticalityDiagnostics          CRITICALITY ignore      TYPE
        CriticalityDiagnostics                  PRESENCE   optional },
    ...
}

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

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

CellSynchronisationAdjustmentFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= (
)
...

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

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

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

GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
)
...

CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
    unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD      Unsuccessful-cell-
    InformationRespList-SyncAdjustmntFailureTDD,

```

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```

        iE-Extensions          ProtocolExtensionContainer
    ( { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs } )    OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

CellSynchronisationTerminationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID          CRITICALITY  ignore      TYPE      C-ID
PRESENCE  mandatory } |
    { ID      id-CSBTransmissionID  CRITICALITY  ignore      TYPE      CSBTransmissionID
PRESENCE  optional } |
    { ID      id-CSBMeasurementID  CRITICALITY  ignore      TYPE      CSBMeasurementID
PRESENCE  optional },
    ...
}

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

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

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

```

```

CellSynchronisationFailureIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-C-ID          CRITICALITY ignore      TYPE      C-ID
    PRESENCE mandatory      }|
  { ID      id-CSBTransmissionID CRITICALITY ignore      TYPE      CSBTransmissionID
    PRESENCE optional        }|
  { ID      id-CSBMeasurementID CRITICALITY ignore      TYPE      CSBMeasurementID
    PRESENCE optional        }|
  { ID      id-Cause         CRITICALITY ignore      TYPE      Cause
    PRESENCE mandatory      },
  ...
}

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

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

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

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

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

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

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

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

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

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

CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
  sFN                               sFN,
  cellSyncBurstInfo-CellSyncReprtTDD SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF
CellSyncBurstInfo-CellSyncReprtTDD,
  ...
}

```

```

}

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

CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
    cellSyncBurstTiming         CellSyncBurstTiming,
    cellSyncBurstSIR            CellSyncBurstSIR,
    ...
}

END

```

### 9.3.4 Information Elements Definitions

```

-----
--
-- Information Element Definitions
--
-----

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
ums-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCellSyncBursts,
    maxNrOfCodeGroups,
    maxNrOfMeasNCell,
    maxNrOfMeasNCell-1,
    maxNrOfReceiptsPerSyncFrame,
    maxNrOfTPCIGroups,
    maxNrOfTPCI1Combs,
    maxNrOfTPCI2Combs,
    maxNrOfTPCI2Combs-1,
    maxNrOfSF,
    maxTGPS,
    maxNrOfUSCHs,
    maxNrOfULTSs,
    maxNrOfULTSLCRs,
    maxNrOfDPCHs,
    maxNrOfDPCHLCRs,
    maxNrOfCodes,
    maxNrOfDSCHs,
    maxNrOfDLTSs,
    maxNrOfDLTSLCRs,
    maxNrOfDCHs,
    maxNrOfLevels,
    maxNoGPSItems,
    maxNoSat,

    id-MessageStructure,
    id-ReportCharacteristicsType-OnModification,
    id-Rx-Timing-Deviation-Value-LCR,
    id-SFNsFNMeasurementValueInformation,
    id-SFNsFNMeasurementThresholdInformation,
    id-TUTRANGPSMeasurementValueInformation,
    id-TUTRANGPSMeasurementThresholdInformation,
    id-TypeOfError,
    id-Angle-Of-Arrival-Value-LCR,
    id-UpPTSInterferenceValue
FROM NBAP-Constants

```



```

    Criticality,
    ProcedureID,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM NBAP-CommonDataTypes

    NBAP-PROTOCOL-IES,
    ProtocolExtensionContainer(),
    ProtocolIE-Single-Container(),
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;

-- =====
-- A
-- =====

Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15,...)
-- According to mapping in [22].

Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
-- According to mapping in [22].

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete
}

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cmConfigurationChangeCFN          CFN,
    transmission-Gap-Pattern-Sequence-Status  Transmission-Gap-Pattern-Sequence-Status-List
                                        OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { (Active-Pattern-
                                        Sequence-Information-ExtIEs) } OPTIONAL,
    ...
}

Active-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSID          TGPSID,
        tGPRC           TGPRC,
        tGCFN           CFN,
        iE-Extensions  ProtocolExtensionContainer { ( Transmission-Gap-Pattern-Sequence-Status-
        List-ExtIEs ) } OPTIONAL,
        ...
    }

Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.

AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
}

AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel          PriorityLevel,
    pre-emptionCapability  Pre-emptionCapability,
    pre-emptionVulnerability  Pre-emptionVulnerability,
}

```

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```

        iE-Extensions          ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} }
        ...
    }

AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
    aOA-LCR                    AOA-LCR,
    aOA-LCR-Accuracy-Class    AOA-LCR-Accuracy-Class,
    iE-Extensions             ProtocolExtensionContainer ( {Angle-Of-Arrival-Value-LCR-ExtIEs} )
    ...
}

Angle-Of-Arrival-Value-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AOA-LCR ::= INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD

AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,g,h,...}

APPreambleSignature ::= INTEGER (0..15)

APSubChannelNumber ::= INTEGER (0..11)

AvailabilityStatus ::= ENUMERATED (
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
)

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed

BindingID ::= OCTET STRING (SIZE (1..4, ...))

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

SCTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

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

```

```

Cause ::= CHOICE (
    radioNetwork          CauseRadioNetwork,
    transport             CauseTransport,
    protocol              CauseProtocol,
    misc                  CauseMisc,
    ...
)

CauseMisc ::= ENUMERATED (
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
)

CauseProtocol ::= ENUMERATED (
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    abstract-syntax-error-falsely-constructed-message,
    ...
)

CauseRadioNetwork ::= ENUMERATED (
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    requested-tx-diversity-mode-not-supported,
    unspecified,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    s-cipch-not-supported,
    combining-not-supported,
    ul-sf-not-supported,
    dl-SF-not-supported,
    common-transport-channel-type-not-supported,
    dedicated-transport-channel-type-not-supported,
    downlink-shared-channel-type-not-supported,
    uplink-shared-channel-type-not-supported,
    cm-not-supported,
    tx-diversity-no-longer-supported,
    unknown-Local-Cell-ID,
    ...,
    number-of-UL-codes-not-supported,
    information-temporarily-not-available,
    information-provision-not-supported-for-the-object,
    cell-synchronisation-not-supported,
    cell-synchronisation-adjustment-not-supported,
    dpc-mode-change-not-supported,
    iPDL-already-activated,
    iPDL-not-supported,
    iPDL-parameters-not-available,
    frequency-acquisition-not-supported
)

CauseTransport ::= ENUMERATED (

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```

transport-resource-unavailable,
unspecified,
...
}

CCTrCH-ID ::= INTEGER (0..15)

CDSubChannelNumbers ::= BIT STRING (
    subCh11(0),
    subCh10(1),
    subCh9(2),
    subCh8(3),
    subCh7(4),
    subCh6(5),
    subCh5(6),
    subCh4(7),
    subCh3(8),
    subCh2(9),
    subCh1(10),
    subCh0(11)
) (SIZE (12))

CellParameterID ::= INTEGER (0..127,...)

CellSyncBurstCode ::= INTEGER(0..7, ...)

CellSyncBurstCodeShift ::= INTEGER(0..7)

CellSyncBurstRepetitionPeriod ::= INTEGER (0..4095)

CellSyncBurstSIR ::= INTEGER (0..31)

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

CellSyncBurstTimingThreshold ::= INTEGER(0..254)

CFN ::= INTEGER (0..255)

Channel-Assignment-Indication ::= ENUMERATED (
    cA-Active,
    cA-Inactive
)

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

ClosedloopTimingadjustmentmode ::= ENUMERATED (
    adj-1-slot,
    adj-2-slot,
    ...
)

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
SEQUENCE {
    dl-Cost      INTEGER (0..65535),
    ul-Cost      INTEGER (0..65535),
    iE-Extensions ProtocolExtensionContainer ( { CommonChannelsCapacityConsumptionLaw-
ExtIEs } ) OPTIONAL,
    ...
}

CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass TUTRANGPSAccuracyClass,
    ...
}

```

```

CommonMeasurementType ::= ENUMERATED {
    received-total-wide-band-power,
    transmitted-carrier-power,
    acknowledged-prach-preambles,
    ul-timeslot-iscp,
    acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles,
    ...,
    uTRAN-GPS-Timing-of-Cell-Frames-for-UE-Positioning,
    sFN-SFN-Observed-Time-Difference,
    upPTS-Interference
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power                Transmitted-Carrier-Power-Value,
    received-total-wide-band-power           Received-total-wide-band-power-Value,
    acknowledged-prach-preambles            Acknowledged-PRACH-preambles-Value,
    ul-TimeslotISCP                         UL-TimeslotISCP-Value,
    acknowledged-PCPCH-access-preambles     Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles         Detected-PCPCH-access-preambles,
    ...,
    extension-CommonMeasurementValue        Extension-CommonMeasurementValue
}

Extension-CommonMeasurementValue ::= ProtocolIE-Single-Container ({ Extension-
CommonMeasurementValueIE })

Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= (
    { ID id-TUTRANGPSMeasurementValueInformation CRITICALITY ignore TYPE
TUTRANGPSMeasurementValueInformation
PRESENCE mandatory } |
    { ID id-SFN-SFNMeasurementValueInformation CRITICALITY ignore TYPE
SFNSFNMeasurementValueInformation
PRESENCE mandatory } |
    { ID id-UpPTSInterferenceValue CRITICALITY ignore TYPE
UpPTSInterferenceValue PRESENCE mandatory }
)

CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable        CommonMeasurementAvailable,
    measurementnotAvailable     CommonMeasurementnotAvailable
}

CommonMeasurementAvailable ::= SEQUENCE {
    commonmeasurementValue      CommonMeasurementValue,
    ie-Extensions               ProtocolExtensionContainer ( { CommonMeasurementAvailableItem-
ExtIEs } ) OPTIONAL,
    ...
}

CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

CommonMeasurementnotAvailable ::= NULL

CommonPhysicalChannelID ::= INTEGER (0..255)

Common-PhysicalChannel-Status-Information ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions               ProtocolExtensionContainer ( { Common-PhysicalChannel-Status-
Information-ExtIEs } ) OPTIONAL,
    ...
}

Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

```

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CommonTransportChannelID ::= INTEGER (0..255)

CommonTransportChannel-InformationResponse ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    bindingID                      BindingID OPTIONAL,
    transportLayerAddress          TransportLayerAddress OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { CommonTransportChannel-
    InformationResponse-ExtIEs} } OPTIONAL,
    ...
}

CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

Common-TransportChannel-Status-Information ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    resourceOperationalState      ResourceOperationalState,
    availabilityStatus            AvailabilityStatus,
    iE-Extensions                  ProtocolExtensionContainer { { Common-TransportChannel-
    Status-Information-ExtIEs} } OPTIONAL,
    ...
}

Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag ::= ENUMERATED {
    deactivate,
    maintain-Active
}

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB

CPCH-Allowed-Total-Rate ::= ENUMERATED (
    v15,
    v30,
    v60,
    v120,
    v240,
    v480,
    v960,
    v1920,
    v2880,
    v3840,
    v4800,
    v5760,
    ...
)

CPCHScramblingCodeNumber ::= INTEGER (0..79)

CPCH-UL-DPCH-SlotFormat ::= INTEGER (0..2,...)

CriticalityDiagnostics ::= SEQUENCE {
    procedureID                    ProcedureID OPTIONAL,
    triggeringMessage              TriggeringMessage OPTIONAL,
    procedureCriticality           Criticality OPTIONAL,
    transactionID                 TransactionID OPTIONAL,
    iEsCriticalityDiagnostics      CriticalityDiagnostics-IE-List OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
    OPTIONAL,
    ...
}

```

```

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
        iECriticality          Criticality,
        iE-ID                  ProtocolIE-ID,
        repetitionNumber       RepetitionNumber0 OPTIONAL,
        iE-Extensions          ProtocolExtensionContainer { (CriticalityDiagnostics-IE-List-ExtIEs) }
                                OPTIONAL,
        ...
    }

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MessageStructure    CRITICALITY ignore    EXTENSION MessageStructure    PRESENCE
      optional }|
    { ID id-typeofError         CRITICALITY ignore    EXTENSION typeofError          PRESENCE
      mandatory },
    ...
}

CRNC-CommunicationContextID ::= INTEGER (0..1048575)

CSBMeasurementID ::= INTEGER (0..65535)

CSBTransmissionID ::= INTEGER (0..65535)

-- =====
-- D
-- =====

DATA-ID ::= INTEGER (0..3)

DCH-ID ::= INTEGER (0..255)

DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem

DCH-FDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator    PayloadCRC-PresenceIndicator,
    ul-FP-Mode                      UL-FP-Mode,
    toAWS                           ToAWS,
    toAWE                            ToAWE,
    dch-SpecificInformationList     DCH-Specific-FDD-InformationList,
    iE-Extensions                    ProtocolExtensionContainer { ( DCH-FDD-InformationItem-
                                    ExtIEs) } OPTIONAL,
    ...
}

DCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item

DCH-Specific-FDD-Item ::= SEQUENCE {
    dch-ID                          DCH-ID,
    ul-TransportFormatSet            TransportFormatSet,
    dl-TransportFormatSet            TransportFormatSet,
    allocationRetentionPriority       AllocationRetentionPriority,
    frameHandlingPriority             FrameHandlingPriority,
    qE-Selector                      QE-Selector,
    iE-Extensions                    ProtocolExtensionContainer { ( DCH-Specific-FDD-Item-
                                    ExtIEs) } OPTIONAL,
    ...
}

DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem

DCH-InformationResponseItem ::= SEQUENCE {
    dch-ID                          DCH-ID,

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bindingID                                BindingID                                OPTIONAL,
transportLayerAddress                    TransportLayerAddress  OPTIONAL,
iE-Extensions                            ProtocolExtensionContainer { { DCH-
                                         InformationResponseItem-ExtIEs} }  OPTIONAL,
...
}

DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem

DCH-TDD-InformationItem ::= SEQUENCE {
payloadCRC-PresenceIndicator            PayloadCRC-PresenceIndicator,
ul-FP-Mode                              UL-FP-Mode,
toAWS                                   ToAWS,
toAWE                                   ToAWE,
dCH-SpecificInformationList             DCH-Specific-TDD-InformationList,
iE-Extensions                            ProtocolExtensionContainer { { DCH-TDD-InformationItem-
                                         ExtIEs} }  OPTIONAL,
...
}

DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item

DCH-Specific-TDD-Item ::= SEQUENCE {
dCH-ID                                  DCH-ID,
ul-CCTrCH-ID                           CCTrCH-ID,
dl-CCTrCH-ID                           CCTrCH-ID,
ul-TransportFormatSet                   TransportFormatSet,
dl-TransportFormatSet                   TransportFormatSet,
allocationRetentionPriority              AllocationRetentionPriority,
frameHandlingPriority                   FrameHandlingPriority,
qE-Selector                             QE-Selector  OPTIONAL,
-- This IE shall be present if DCH is part of set of Coordinated DCHs
iE-Extensions                            ProtocolExtensionContainer { { DCH-Specific-TDD-Item-
                                         ExtIEs} }  OPTIONAL,
...
}

DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem

FDD-DCHs-to-ModifyItem ::= SEQUENCE {
ul-FP-Mode                              UL-FP-Mode  OPTIONAL,
toAWS                                   ToAWS  OPTIONAL,
toAWE                                   ToAWE  OPTIONAL,
transportBearerRequestIndicator         TransportBearerRequestIndicator,
dCH-SpecificInformationList             DCH-ModifySpecificInformation-FDD,
iE-Extensions                            ProtocolExtensionContainer { { FDD-DCHs-to-ModifyItem-
                                         ExtIEs} }  OPTIONAL,
...
}

FDD-DCHs-to-ModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifySpecificInformation-FDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD

DCH-ModifySpecificItem-FDD ::= SEQUENCE {
dCH-ID                                  DCH-ID,
ul-TransportFormatSet                   TransportFormatSet  OPTIONAL,
dl-TransportFormatSet                   TransportFormatSet  OPTIONAL,
allocationRetentionPriority              AllocationRetentionPriority  OPTIONAL,
frameHandlingPriority                   FrameHandlingPriority  OPTIONAL,
iE-Extensions                            ProtocolExtensionContainer { { DCH-

```



```

ModifySpecificItem-FDD-ExtIEs } ) OPTIONAL,
...
}
DCH-ModifySpecificItem-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD
DCH-ModifyItem-TDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS               ToAWS               OPTIONAL,
    toAWE               ToAWE               OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    dCH-SpecificInformationList DCH-ModifySpecificInformation-TDD,
    iE-Extensions      ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-
                                                ExtIEs } } OPTIONAL,
    ...
}
TDD-DCHs-to-ModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-ModifySpecificInformation-TDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-TDD
DCH-ModifySpecificItem-TDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-CCTrCH-ID       CCTrCH-ID              OPTIONAL,
    dl-CCTrCH-ID       CCTrCH-ID              OPTIONAL,
    ul-TransportFormatSet TransportFormatSet    OPTIONAL,
    dl-TransportFormatSet TransportFormatSet    OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { DCH-
                                                ModifySpecificItem-TDD-ExtIEs } } OPTIONAL,
    ...
}
DCH-ModifySpecificItem-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
SEQUENCE {
    dl-Cost-1          INTEGER (0..65535),
    dl-Cost-2          INTEGER (0..65535),
    ul-Cost-1          INTEGER (0..65535),
    ul-Cost-2          INTEGER (0..65535),
    iE-Extensions      ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-
                                                ExtIEs } } OPTIONAL,
    ...
}
DedicatedChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
    rx-timing-deviation,
    round-trip-time,
    ....
    rx-timing-deviation-LCR,
    angle-Of-Arrival-LCR
}
DedicatedMeasurementValue ::= CHOICE {
    sir-Value          SIR-Value,
    sir-ErrorValue     SIR-Error-Value,

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transmittedCodePowerValue      Transmitted-Code-Power-Value,
rSCP                             RSCP-Value,
rxTimingDeviationValue         Rx-Timing-Deviation-Value,
roundTripTime                   Round-Trip-Time-Value,
...
extension-DedicatedMeasurementValue  Extension-DedicatedMeasurementValue
}

Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container ({ Extension-
DedicatedMeasurementValueIE })

Extension-DedicatedMeasurementValueIE NBAP-PROTOCOL-IES ::= {
  { ID id-Rx-Timing-Deviation-Value-LCR  CRITICALITY reject  TYPE Rx-Timing-Deviation-Value-LCR
  PRESENCE mandatory }}
  { ID id-Angle-Of-Arrival-Value-LCR  CRITICALITY reject  TYPE Angle-Of-Arrival-Value-LCR PRESENCE
  mandatory },
  ...
}

DedicatedMeasurementValueInformation ::= CHOICE {
  measurementAvailable      DedicatedMeasurementAvailable,
  measurementnotAvailable   DedicatedMeasurementnotAvailable
}

DedicatedMeasurementAvailable ::= SEQUENCE {
  dedicatedmeasurementValue  DedicatedMeasurementValue,
  cFN                        CFN                        OPTIONAL,
  ie-Extensions              ProtocolExtensionContainer
                             ( { DedicatedMeasurementAvailableItem-ExtIEs } )  OPTIONAL,
  ...
}

DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DedicatedMeasurementnotAvailable ::= NULL

Detected-PCPCH-access-preambles ::= INTEGER (0..240,...)
-- According to mapping in [22].

DeltaSIR                        ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.

DGPSCorrections ::= SEQUENCE {
  gpstow                       GPSTOW,
  status-health                 GPS-Status-Health,
  satelliteinfo                 SAT-Info-DGPSCorrections,
  ie-Extensions                 ProtocolExtensionContainer { { DGPSCorrections-ExtIEs } }  OPTIONAL,
  ...
}

DGPSCorrections-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DGPSThresholds ::= SEQUENCE {
  prcdeviation                  PRCDeviation,
  ie-Extensions                 ProtocolExtensionContainer { { DGPSThresholds-ExtIEs } }  OPTIONAL,
  ...
}

DGPSThresholds-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not,
    ...
}

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-model,
    closed-loop-mode2,
    ...
}

DL-DPCH-SlotFormat ::= INTEGER (0..16,...)

DL-Timeslot-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationItem

DL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence           TFCI-Presence,
    dL-Code-Information     TDD-DL-Code-Information,
    iE-Extensions          ProtocolExtensionContainer { { DL-Timeslot-
                        InformationItem-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeslotLCR-
InformationItem

DL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR            TimeSlotLCR,
    midambleShiftLCR      MidambleShiftLCR,
    tFCI-Presence         TFCI-Presence,
    dL-Code-LCR-Information TDD-DL-Code-LCR-Information,
    iE-Extensions        ProtocolExtensionContainer { { DL-TimeslotLCR-
                        InformationItem-ExtIEs} } OPTIONAL,
    ...
}

DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

DL-or-Global-CapacityCredit ::= INTEGER (0..65535)

DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power/10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

DLPowerAveragingWindowSize ::= INTEGER (1..60)

DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --

DL-TimeslotISCP ::= INTEGER (0..91)

DL-TimeslotISCPInfo ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem

DL-TimeslotISCPInfoItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    dL-TimeslotISCP        DL-TimeslotISCP,
    iE-Extensions          ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} }
}

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timeSlot                TimeSlot,
dL-TimeslotISCP         DL-TimeslotISCP,
iE-Extensions           ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} }
                        OPTIONAL,
...
}

DL-TimeslotISCPInfoItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-TimeslotISCPInfoLCR ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR

DL-TimeslotISCPInfoItemLCR ::= SEQUENCE {
timeSlotLCR             TimeSlotLCR,
dL-TimeslotISCP         DL-TimeslotISCP,
iE-Extensions           ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }
                        OPTIONAL,
...
}

DL-TimeslotISCPInfoItemLCR-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-TPC-Pattern01Count ::= INTEGER (0..30,...)

Downlink-Compressed-Mode-Method ::= ENUMERATED {
puncturing,
sPdiv2,
higher-layer-scheduling,
...
}

DPC-Mode ::= ENUMERATED {
mode0,
mode1,
...
}

DPCH-ID ::= INTEGER (0..239)
DSCH-ID ::= INTEGER (0..255)

DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem

DSCH-InformationResponseItem ::= SEQUENCE {
dSCH-ID                 DSCH-ID,
bindingID               BindingID OPTIONAL,
transportLayerAddress   TransportLayerAddress OPTIONAL,
iE-Extensions           ProtocolExtensionContainer { { DSCH-
                        InformationResponseItem-ExtIEs } } OPTIONAL,
...
}

DSCH-InformationResponseItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-FDD-Common-Information ::= SEQUENCE {
enhancedDSCHPCIndicator EnhancedDSCHPCIndicator OPTIONAL,
enhancedDSCHPC           EnhancedDSCHPC           OPTIONAL,
-- The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC
Active in the UE".
iE-Extensions           ProtocolExtensionContainer { { DSCH-FDD-Common-Information-
                        ExtIEs } } OPTIONAL,
...
}

DSCH-FDD-Common-Information-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-FDD-InformationItem

DSCH-FDD-InformationItem ::= SEQUENCE {
dSCH-ID                 DSCH-ID,
transportFormatSet       TransportFormatSet,
allocationRetentionPriority AllocationRetentionPriority,

```

```

    frameHandlingPriority      FrameHandlingPriority,
    toAWS                     ToAWS,
    toAWE                     ToAWE,
    iE-Extensions            ProtocolExtensionContainer { { DSCH-FDD-InformationItem-
    ExtIEs) }                OPTIONAL,
    ...
}

DSCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem

DSCH-TDD-InformationItem ::= SEQUENCE {
    dSCH-ID                  DSCH-ID,
    cCTrCH-ID               CCTrCH-ID,
    transportFormatSet      TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority    FrameHandlingPriority,
    toAWS                   ToAWS,
    toAWE                   ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-TDD-InformationItem-
    ExtIEs) }                OPTIONAL,
    ...
}

DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DwPCH-Power ::= INTEGER (-150..400,...)
-- DwPCH-power = power * 10
-- If power <= -15 DwPCH shall be set to -150
-- If power >= 40 DwPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB

-- =====
-- E
-- =====

End-Of-Audit-Sequence-Indicator ::= ENUMERATED (
    end-of-audit-sequence,
    not-end-of-audit-sequence
)

EnhancedDSCHPC ::= SEQUENCE {
    enhancedDSCHPCWnd      EnhancedDSCHPCWnd,
    enhancedDSCHPCCounter  EnhancedDSCHPCCounter,
    enhancedDSCHPowerOffset EnhancedDSCHPowerOffset,
    ...
}

EnhancedDSCHPCCounter ::= INTEGER (1..50)

EnhancedDSCHPCIndicator ::= ENUMERATED (
    enhancedDSCHPCActiveInTheUE,
    enhancedDSCHPCNotActiveInTheUE
)

EnhancedDSCHPCWnd ::= INTEGER (1..10)

EnhancedDSCHPowerOffset ::= INTEGER (-15..0)

-- =====
-- F
-- =====

FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 511)
-- According to the mapping in [9]. The maximum value is equal to the DL spreading factor -1--

FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF FDD-DL-CodeInformationItem

FDD-DL-CodeInformationItem ::= SEQUENCE {
    dl-ScramblingCode      DL-ScramblingCode,

```

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```

fdd-DL-ChannelisationCodeNumber          FDD-DL-ChannelisationCodeNumber,

                                           transmissionGapPatternSequenceCodeInformation
                                           TransmissionGapPatternSequenceCodeInformation OPTIONAL,
ie-Extensions                             ProtocolExtensionContainer { ( FDD-DL-
                                           CodeInformationItem-ExtIEs) } OPTIONAL,
...
)

FDD-DL-CodeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [7] --

FDD-TPC-DownlinkStepSize ::= ENUMERATED (
step-size0-5,
step-size1,
step-size1-5,
step-size2,
...
)

FirstRLS-Indicator ::= ENUMERATED {
first-RLS,
not-first-RLS,
...
}

FNReportingIndicator ::= ENUMERATED {
fn-reporting-required,
fn-reporting-not-required
}

FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --

FrameAdjustmentValue ::= INTEGER(0..4095)

FrameOffset ::= INTEGER (0..255)

FPACH-Power ::= INTEGER (-150..400,...) -- FPACH-power = power * 10
-- If power <= -15 FPACH shall be set to -150
-- If power >= 40 FPACH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB

-- =====
-- G
-- =====

GapLength          ::= INTEGER (1..14)
-- Unit slot

GapDuration        ::= INTEGER (1..144,...)
-- Unit frame

GPS-Almanac ::= SEQUENCE {
wna-alm          BIT STRING (SIZE (8)),
sat-info-almanac  SAT-Info-Almanac,
svGlobalHealth-alm BIT STRING (SIZE (364)) OPTIONAL,
ie-Extensions    ProtocolExtensionContainer { ( GPS-Almanac-ExtIEs) } OPTIONAL,
...
}

GPS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GPS-Ionospheric-Model ::= SEQUENCE {

```

```

alpha-zero-ionos      BIT STRING (SIZE (8)),
alpha-one-ionos       BIT STRING (SIZE (8)),
alpha-two-ionos       BIT STRING (SIZE (8)),
alpha-three-ionos    BIT STRING (SIZE (8)),
beta-zero-ionos      BIT STRING (SIZE (8)),
beta-one-ionos       BIT STRING (SIZE (8)),
beta-two-ionos       BIT STRING (SIZE (8)),
beta-three-ionos     BIT STRING (SIZE (8)),
ie-Extensions        ProtocolExtensionContainer ( { GPS-Ionospheric-Model-ExtIEs} )    OPTIONAL,
...
)

GPS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GPS-Information ::= SEQUENCE (SIZE (0..maxNoGPSItems)) OF GPS-Information-Item

GPS-Information-Item ::= ENUMERATED (
  gps-navigation-model-and-time-recovery,
  gps-ionospheric-model,
  gps-utc-model,
  gps-almanac,
  gps-rt-integrity,
  ...
)

GPS-RealTime-Integrity ::= CHOICE (
  bad-satellites      GPSBadSat-Info-RealTime-Integrity,
  no-bad-satellites   NULL
)

GPSBadSat-Info-RealTime-Integrity ::= SEQUENCE (
  sat-info            SATInfo-RealTime-Integrity,
  ie-Extensions       ProtocolExtensionContainer ( { GPSBadSat-Info-RealTime-
  Integrity-ExtIEs} )    OPTIONAL,
  ...
)

GPSBadSat-Info-RealTime-Integrity-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

GPS-NavandRecovery-Item ::= SEQUENCE (SIZE (1..maxNoSat)) OF GPS-NavandRecovery-Item

GPS-NavandRecovery-Item ::= SEQUENCE (
  tx-tow-nav          INTEGER (0..1048575),
  sat-id-nav          SAT-ID,
  tlm-message-nav     BIT STRING (SIZE (14)),
  tlm-revd-c-nav      BIT STRING (SIZE (2)),
  ho-word-nav         BIT STRING (SIZE (22)),
  w-n-nav             BIT STRING (SIZE (10)),
  ca-or-p-on-l2-nav   BIT STRING (SIZE (2)),
  user-range-accuracy-index-nav BIT STRING (SIZE (4)),
  sv-health-nav       BIT STRING (SIZE (6)),
  iodc-nav            BIT STRING (SIZE (10)),
  l2-p-dataflag-nav   BIT STRING (SIZE (1)),
  sfl-reserved-nav    BIT STRING (SIZE (87)),
  t-gd-nav            BIT STRING (SIZE (8)),
  t-oc-nav            BIT STRING (SIZE (16)),
  a-f-2-nav           BIT STRING (SIZE (8)),
  a-f-1-nav           BIT STRING (SIZE (16)),
  a-f-zero-nav        BIT STRING (SIZE (22)),
  c-rs-nav            BIT STRING (SIZE (16)),
  delta-n-nav         BIT STRING (SIZE (16)),
  m-zero-nav          BIT STRING (SIZE (32)),
  c-uc-nav            BIT STRING (SIZE (16)),
  gps-e-nav           BIT STRING (SIZE (32)),
)

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c-us-nav          BIT STRING (SIZE (16)),
a-sqrt-nav       BIT STRING (SIZE (32)),
t-oe-nav         BIT STRING (SIZE (16)),
fit-interval-flag-nav  BIT STRING (SIZE (1)),
aodo-nav         BIT STRING (SIZE (5)),
c-ic-nav         BIT STRING (SIZE (16)),
omega-zero-nav   BIT STRING (SIZE (32)),
c-is-nav         BIT STRING (SIZE (16)),
i-zero-nav       BIT STRING (SIZE (32)),
c-rc-nav         BIT STRING (SIZE (16)),
gps-omega-nav    BIT STRING (SIZE (32)),
omegadot-nav     BIT STRING (SIZE (24)),
idot-nav         BIT STRING (SIZE (14)),
spare-zero-fill  BIT STRING (SIZE (20)),
ie-Extensions    ProtocolExtensionContainer { ( GPS-NavandRecovery-Item-ExtIEs) }
                  OPTIONAL,
...
}

GPS-NavandRecovery-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GPS-RX-POS ::= SEQUENCE {
    latitudeSign      ENUMERATED {north, south},
    latitude          INTEGER (0..8388607),
    longitude         INTEGER (-8388608..8388607),
    directionOfAltitude  ENUMERATED {height, depth},
    altitude          INTEGER (0..32767),
    ie-Extensions     ProtocolExtensionContainer { ( GPS-RX-POS-ExtIEs) } OPTIONAL,
...
}

GPS-RX-POS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GPS-Status-Health ::= ENUMERATED {
    udre-scale-1dot0,
    udre-scale-0dot75,
    udre-scale-0dot5,
    udre-scale-0dot3,
    udre-scale-0dot1,
    no-data,
    invalid-data
}

GPSTOW ::= INTEGER (0..604799)

GPS-UTC-Model ::= SEQUENCE {
    a-one-utc        BIT STRING (SIZE (24)),
    a-zero-utc       BIT STRING (SIZE (32)),
    t-ot-utc         BIT STRING (SIZE (8)),
    delta-t-ls-utc   BIT STRING (SIZE (8)),
    w-n-t-utc        BIT STRING (SIZE (8)),
    w-n-lsf-utc      BIT STRING (SIZE (8)),
    dn-utc           BIT STRING (SIZE (8)),
    delta-t-lsf-utc  BIT STRING (SIZE (8)),
    ie-Extensions    ProtocolExtensionContainer { ( GPS-UTC-Model-ExtIEs) } OPTIONAL,
...
}

GPS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- =====
-- K
-- =====

```



```

-- =====
-- I
-- =====

IB-OC-ID ::= INTEGER (1..16)

IB-SG-DATA ::= BIT STRING
-- Contains SIB data fixed" or "SIB data variable" in segment as encoded in ref.[18].

IB-SG-POS ::= INTEGER (0..4094)
-- Only even positions allowed

IB-SG-REP ::= ENUMERATED (rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048,
rep4096)

IB-Type ::= ENUMERATED (
    mIB,
    sB1,
    sB2,
    sIB1,
    sIB2,
    sIB3,
    sIB4,
    sIB5,
    sIB6,
    sIB7,
    sIB8,
    sIB9,
    sIB10,
    sIB11,
    sIB12,
    sIB13,
    sIB13dot1,
    sIB13dot2,
    sIB13dot3,
    sIB13dot4,
    sIB14,
    sIB15,
    sIB15dot1,
    sIB15dot2,
    sIB15dot3,
    sIB16,
    ...,
    sIB17,
    sIB15dot4,
    sIB18,
    sIB15dot5
)

InformationReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          InformationReportCharacteristicsType-ReportPeriodicity,
    onModification    InformationReportCharacteristicsType-OnModification,
    ...
}

InformationReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    min              ReportPeriodicity-Scaledmin,
    hours            ReportPeriodicity-Scaledhour,
    ...
}

InformationReportCharacteristicsType-OnModification ::= SEQUENCE {
    information-thresholds    InformationThresholds    OPTIONAL,
    ie-Extensions            ProtocolExtensionContainer
    { ( InformationReportCharacteristicsType-OnModification-ExtIEs) }
    OPTIONAL,
    ...
}

InformationReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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```

)

InformationThresholds ::= CHOICE {
    dgps                DGPSThresholds,
    ...
}

InformationExchangeID ::= INTEGER (0..1048575)

InformationType ::= SEQUENCE {
    information-Type-Item    Information-Type-Item,
    gpsInformation          GPS-Information OPTIONAL,
    -- The IE shall be present if the Information Type Item IE indicates 'GPS Information'.
    iE-Extensions           ProtocolExtensionContainer { ( Information-Type-ExtIEs) }
                           OPTIONAL,
    ...
}

Information-Type-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Information-Type-Item ::= ENUMERATED {
    gpsinformation,
    dgpscorrections,
    gpsrxpos,
    ...
}

InnerLoopDLPCStatus ::= ENUMERATED {
    active,
    inactive
}

IPDL-Indicator ::= ENUMERATED {
    active,
    inactive
}

IPDL-FDD-Parameters ::= SEQUENCE {
    iP-SpacingFDD          ENUMERATED{sp5, sp7, sp10, sp15, sp20, sp30, sp40, sp50, ...},
    iP-Length              ENUMERATED{len5, len10},
    seed                   INTEGER(0..63),
    burstModeParams        BurstModeParams OPTIONAL,
    iP-Offset              INTEGER(0..9),
    iE-Extensions          ProtocolExtensionContainer { ( IPDLFDDParameter-ExtIEs) }
                           OPTIONAL,
    ...
}

IPDLFDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IPDL-TDD-Parameters ::= SEQUENCE {
    iP-SpacingTDD          ENUMERATED{sp30, sp40, sp50, sp70, sp100, ...},
    iP-Start               INTEGER(0..4095),
    iP-Slot                INTEGER(0..14),
    iP-PCCPCH              ENUMERATED{switchOff-1-Frame, switchOff-2-Frames},
    burstModeParams        BurstModeParams OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { ( IPDLTDDParameter-ExtIEs) }
                           OPTIONAL,
    ...
}

BurstModeParams ::= SEQUENCE {
    burstStart             INTEGER(0..15),
    burstLenth            INTEGER(10..25),
    burstFreq              INTEGER(1..16),
}

```

```

    ...
}

IPDLTDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- =====
-- J
-- =====

-- =====
-- K
-- =====

-- =====
-- L
-- =====

LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}

Local-Cell-ID ::= INTEGER (0..268435455)

-- =====
-- M
-- =====

MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaxNrOfUL-DPDCHs ::= INTEGER (1..6)

Max-Number-of-PCPCHes ::= INTEGER (1..64,...)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

MeasurementFilterCoefficient ::= ENUMERATED {k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15,
k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
        iE-ID                ProtocolIE-ID,
        repetitionNumber     RepetitionNumber1 OPTIONAL,
        iE-Extensions        ProtocolExtensionContainer ( {MessageStructure-ExtIEs} ) OPTIONAL,
        ...
    }

MessageStructure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MidambleConfigurationLCR ::= ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}

MidambleConfigurationBurstType1And3 ::= ENUMERATED {v4, v8, v16}

MidambleConfigurationBurstType2 ::= ENUMERATED {v3, v6}

MidambleShiftAndBurstType ::= CHOICE {
    type1                SEQUENCE {
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode             CHOICE {
            defaultMidamble
            NULL,

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        commonMidamble                NULL,
        ueSpecificMidamble            MidambleShiftLong,
        ...
    },
    ...
    },
    type2                               SEQUENCE {
        midambleConfigurationBurstType2 MidambleConfigurationBurstType2,
        midambleAllocationMode          CHOICE {
            defaultMidamble              NULL,
            commonMidamble                NULL,
            ueSpecificMidamble            MidambleShiftShort,
            ...
        },
        ...
    },
    type3                               SEQUENCE {
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode          CHOICE {
            defaultMidamble              NULL,
            ueSpecificMidamble            MidambleShiftLong,
            ...
        },
        ...
    },
    ...
}

MidambleShiftLong ::=                INTEGER (0..15)

MidambleShiftShort ::=                INTEGER (0..5)

MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode            MidambleAllocationMode,
    midambleShift                      MidambleShiftLong OPTIONAL,
    -- The IE shall be present if the Midamble Allocation Mode IE is set to "UE specific midamble".
    midambleConfigurationLCR          MidambleConfigurationLCR,
    iE-Extensions                      ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }
    OPTIONAL,
    ...
}

MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble,
    commonMidamble,
    ueSpecificMidamble,
    ...
}

MidambleShiftLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB

MinSpreadingFactor ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512
}
-- TDD Mapping scheme for the minimum spreading factor 1 and 2: "256" means 1, "512" means 2

Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    ...
}

MinUL-ChannelisationCodeLength ::= ENUMERATED {

```

```

v4,
v8,
v16,
v32,
v64,
v128,
v256,
...
}

MultiplexingPosition ::= ENUMERATED (
    fixed,
    flexible
)

-- =====
-- N
-- =====

NCyclesPerSFNperiod ::= ENUMERATED (
    v1,
    v2,
    v4,
    v8,
    ...
)

NEOT ::= INTEGER (0..8)

NFmax ::= INTEGER (1..64,...)

NRRepetitionsPerCyclePeriod ::= INTEGER (2..10)

N-INSYNC-IND ::= INTEGER (1..256)

N-OUTSYNC-IND ::= INTEGER (1..256)

NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
    CHOICE {
        neighbouringFDDCellMeasurementInformation
        NeighbouringFDDCellMeasurementInformation, -- FDD only
        neighbouringTDDCellMeasurementInformation
        NeighbouringTDDCellMeasurementInformation,
        -- Applicable to 3.84Mcps TDD only
        ...
    }

NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id                UC-Id,
    uARFCN               UARFCN,
    primaryScramblingCode PrimaryScramblingCode,
    iB-Extensions       ProtocolExtensionContainer
                        { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs} }
                        OPTIONAL,
    ...
}

NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id                UC-Id,
    uARFCN               UARFCN,
    cellParameterID     CellParameterID,
    timeSlot             TimeSlot                OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    iB-Extensions       ProtocolExtensionContainer
                        { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs} }
                        OPTIONAL,
    ...
}

NeighbouringTDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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```

)
...
NodeB-CommunicationContextID ::= INTEGER (0..1048575)
NStartMessage ::= INTEGER (1..8)

-- =====
-- 0
-- =====

-- =====
-- P
-- =====

PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8,
    ...
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    CRC-Included,
    CRC-NotIncluded,
    ...
}

PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB

PCP-Length ::= ENUMERATED(
    v0,
    v8
)

PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod           CHOICE {
        code-Range             PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tPCI-Range             PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit               PDSCH-CodeMapping-PDSCH-CodeInformationList,
        ...
        replace                PDSCH-CodeMapping-ReplacedPDSCH-CodeInformationList },
    iE-Extensions             ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs} }
    OPTIONAL,
    ...
}

PDSCH-CodeMapping-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-CodeNumberComp ::= INTEGER (0..maxCodeNrComp-1)

PDSCH-CodeMapping-SpreadingFactor ::= ENUMERATED (
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    ...
)

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfCodeGroups)) OF
SEQUENCE {
    spreadingFactor           PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo           PDSCH-Multi-CodeInfo,
    start-CodeNumber         PDSCH-CodeMapping-CodeNumberComp,
    stop-CodeNumber          PDSCH-CodeMapping-CodeNumberComp,

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```

        iE-Extensions          ProtocolExtensionContainer ( { PDSCH-CodeMapping-PDSCH-
        ...                    CodeMappingInformationList-ExtIEs} )          OPTIONAL,
    }

PDSCH-CodeMapping-PDSCH-CodeMappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-DSCH-MappingInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
SEQUENCE (
    maxTFCI-field2-Value      PDSCH-CodeMapping-MaxTFCI-Field2-Value,
    spreadingFactor           PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo            PDSCH-Multi-CodeInfo,
    codeNumber                PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions            ProtocolExtensionContainer ( { PDSCH-CodeMapping-DSCH-
    ...                        MappingInformationList-ExtIEs} )          OPTIONAL,
)

PDSCH-CodeMapping-DSCH-MappingInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-MaxTFCI-Field2-Value ::= INTEGER (1..1023)

PDSCH-CodeMapping-PDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
SEQUENCE (
    spreadingFactor           PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo            PDSCH-Multi-CodeInfo,
    codeNumber                PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions            ProtocolExtensionContainer ( { PDSCH-CodeMapping-PDSCH-
    ...                        CodeInformationList-ExtIEs} )          OPTIONAL,
)

PDSCH-CodeMapping-PDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-CodeMapping-ReplacedPDSCH-CodeInformationList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
SEQUENCE (
    tfci-Field2              TFCS-MaxTFCI-field2-Value,
    spreadingFactor           PDSCH-CodeMapping-SpreadingFactor,
    multi-CodeInfo            PDSCH-Multi-CodeInfo,
    codeNumber                PDSCH-CodeMapping-CodeNumberComp,
    iE-Extensions            ProtocolExtensionContainer ( { PDSCH-CodeMapping-ReplacedPDSCH-
    ...                        CodeInformationList-ExtIEs} )          OPTIONAL,
)

PDSCH-CodeMapping-ReplacedPDSCH-CodeInformationList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Multi-CodeInfo ::= INTEGER (1..16)

PDSCH-ID ::= INTEGER (0..255)

PDSCHSet-ID ::= INTEGER (0..255)

PICH-Mode ::= ENUMERATED (
    v18,
    v36,
    v72,
    v144,
    ...
)

PICH-Power ::= INTEGER (-10..5)
-- Unit dB, Range -10dB .. +5dB, Step +1dB

PowerAdjustmentType ::= ENUMERATED (
    none,
    common,

```

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```
    individual
}

PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB

PowerRaiseLimit ::= INTEGER (0..10)

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters

PRCDeviation ::= ENUMERATED {
    one,
    two,
    five,
    ten,
    ...
}

PreambleSignatures ::= BIT STRING {
    signature15(0),
    signature14(1),
    signature13(2),
    signature12(3),
    signature11(4),
    signature10(5),
    signature9(6),
    signature8(7),
    signature7(8),
    signature6(9),
    signature5(10),
    signature4(11),
    signature3(12),
    signature2(13),
    signature1(14),
    signature0(15)
} (SIZE (16))

PreambleThreshold ::= INTEGER (0..72)
-- 0= -36.0dB, 1= -35.5dB, ... , 72= 0.0dB

PredictedSFNSFNDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

PredictedTUTRANGPSDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

Pre-emptionCapability ::= ENUMERATED {
    shall-not-trigger-pre-emption,
    may-trigger-pre-emption
}

Pre-emptionVulnerability ::= ENUMERATED {
    not-pre-emptable,
    pre-emptable
}

PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryScramblingCode ::= INTEGER (0..511)

PriorityLevel ::= INTEGER (0..15)
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority

PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0chip, 1 = 3chips
```



```

SCH-TimeSlot ::= INTEGER (0..6)

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%

PUSCH-ID ::= INTEGER (0..255)

PUSCHSet-ID ::= INTEGER (0..255)

-- =====
-- Q
-- =====

QE-Selector ::= ENUMERATED {
    selected,
    non-selected
}

-- =====
-- R
-- =====

RACH-SlotFormat ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    ...
}

RACH-SubChannelNumbers ::= BIT STRING (
    subCh11(0),
    subCh10(1),
    subCh9(2),
    subCh8(3),
    subCh7(4),
    subCh6(5),
    subCh5(6),
    subCh4(7),
    subCh3(8),
    subCh2(9),
    subCh1(10),
    subCh0(11)
) (SIZE (12))

Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s

ReferenceClockAvailability ::= ENUMERATED (
    available,
    notAvailable
)

ReferenceSPNoffset ::= INTEGER (0..255)

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED (
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64,
    ...
)

RepetitionNumber0 ::= INTEGER (0..255)

RepetitionNumber1 ::= INTEGER (1..256)

RefTFCNumber ::= INTEGER (0..3)

```

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```

ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          ReportCharacteristicsType-ReportPeriodicity,
    event-a          ReportCharacteristicsType-EventA,
    event-b          ReportCharacteristicsType-EventB,
    event-c          ReportCharacteristicsType-EventC,
    event-d          ReportCharacteristicsType-EventD,
    event-e          ReportCharacteristicsType-EventE,
    event-f          ReportCharacteristicsType-EventF,
    ...,
    extension-ReportCharacteristics  Extension-ReportCharacteristics
}

Extension-ReportCharacteristics ::= ProtocolIE-Single-Container ( { Extension-ReportCharacteristicsIE } )

Extension-ReportCharacteristicsIE NBAP-PROTOCOL-IES ::= {
    { ID id-ReportCharacteristicsType-OnModification.  CRITICALITY reject  TYPE
    ReportCharacteristicsType-OnModification          PRESENCE mandatory }
}

ReportCharacteristicsType-EventA ::= SEQUENCE (
    measurementThreshold          ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
    OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer ( { ReportCharacteristicsType-EventA-ExtIEs } )
    OPTIONAL,
    ...
)

ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventB ::= SEQUENCE (
    measurementThreshold          ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
    OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer ( { ReportCharacteristicsType-EventB-ExtIEs } )
    OPTIONAL,
    ...
)

ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventC ::= SEQUENCE (
    measurementIncreaseThreshold  ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime        ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions                ProtocolExtensionContainer ( { ReportCharacteristicsType-EventC-ExtIEs } )
    OPTIONAL,
    ...
)

ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventD ::= SEQUENCE (
    measurementDecreaseThreshold  ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime        ReportCharacteristicsType-ScaledMeasurementChangeTime,
    iE-Extensions                ProtocolExtensionContainer ( { ReportCharacteristicsType-EventD-ExtIEs } )
    OPTIONAL,
    ...
)

ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-EventE ::= SEQUENCE (
    measurementThreshold1        ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2        ReportCharacteristicsType-MeasurementThreshold
    OPTIONAL,

```

```

measurementHysteresisTime      ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                OPTIONAL,
reportPeriodicity              ReportCharacteristicsType-ReportPeriodicity
                                OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer ( { ReportCharacteristicsType-EventE-
                                ExtIEs} )      OPTIONAL,
...
)

ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

ReportCharacteristicsType-EventF ::= SEQUENCE (
measurementThreshold1          ReportCharacteristicsType-MeasurementThreshold,
measurementThreshold2          ReportCharacteristicsType-MeasurementThreshold
                                OPTIONAL,
measurementHysteresisTime      ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                OPTIONAL,
reportPeriodicity              ReportCharacteristicsType-ReportPeriodicity
                                OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer ( { ReportCharacteristicsType-EventF-
                                ExtIEs} )      OPTIONAL,
...
)

ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

ReportCharacteristicsType-OnModification ::= SEQUENCE (
measurementThreshold            ReportCharacteristicsType-MeasurementThreshold,
iE-Extensions                  ProtocolExtensionContainer ( { ReportCharacteristicsType-
                                OnModification-ExtIEs} )      OPTIONAL,
...
)

ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
...
)

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE (
received-total-wide-band-power      Received-total-wide-band-power-Value-IncrDecrThres,
transmitted-carrier-power           Transmitted-Carrier-Power-Value,
acknowledged-prach-preambles        Acknowledged-PRACH-preambles-Value,
uL-TimeslotISCP                     UL-TimeslotISCP-Value-IncrDecrThres,
sir                                  SIR-Value-IncrDecrThres,
sir-error                           SIR-Error-Value-IncrDecrThres,
transmitted-code-power              Transmitted-Code-Power-Value-IncrDecrThres,
rscp                                 RSCP-Value-IncrDecrThres,
round-trip-time                     Round-Trip-Time-IncrDecrThres,
acknowledged-PCPCH-access-preambles Acknowledged-PCPCH-access-preambles,
detected-PCPCH-access-preambles     Detected-PCPCH-access-preambles,
...
extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold .      Extension-
ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold
)

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-
Container ( { Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE } )

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= (
{ ID id-UpPTSInterferenceValue      CRITICALITY reject TYPE UpPTSInterferenceValue      PRESENCE
mandatory }
)

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE (
received-total-wide-band-power      Received-total-wide-band-power-Value,
transmitted-carrier-power           Transmitted-Carrier-Power-Value,
acknowledged-prach-preambles        Acknowledged-PRACH-preambles-Value,
uL-TimeslotISCP                     UL-TimeslotISCP-Value,
sir                                  SIR-Value,
sir-error                           SIR-Error-Value,
transmitted-code-power              Transmitted-Code-Power-Value,
rscp                                 RSCP-Value,

```

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```

    rx-timing-deviation                Rx-Timing-Deviation-Value,
    round-trip-time                    Round-Trip-Time-Value,
    acknowledged-PCPCH-access-preambles Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles    Detected-PCPCH-access-preambles,
    ....
    extension-ReportCharacteristicsType-MeasurementThreshold      Extension-
ReportCharacteristicsType-MeasurementThreshold
}

Extension-ReportCharacteristicsType-MeasurementThreshold ::= ProtocolIE-Single-Container
{{ Extension-ReportCharacteristicsType-MeasurementThresholdIE }}

Extension-ReportCharacteristicsType-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {
  { ID id-TUTRANGPSMeasurementThresholdInformation CRITICALITY reject TYPE
TUTRANGPSMeasurementThresholdInformation PRESENCE mandatory }|
  { ID id-SFNMeasurementThresholdInformation CRITICALITY reject TYPE
SFNMeasurementThresholdInformation PRESENCE mandatory }|
  { ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
PRESENCE mandatory }|
  { ID id-UpPTSInterferenceValue CRITICALITY reject TYPE UpPTSInterferenceValue
PRESENCE mandatory }
}

ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
  msec MeasurementChangeTime-Scaledmsec,
  ...
}

MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
  msec MeasurementHysteresisTime-Scaledmsec,
  ...
}

MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
  msec ReportPeriodicity-Scaledmsec,
  min ReportPeriodicity-Scaledmin,
  ...
}

ReportPeriodicity-Scaledmsec ::= INTEGER (1..6000,...)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportPeriodicity-Scaledmin ::= INTEGER (1..60,...)
-- Unit min, Range 1min .. 60min(hour), Step 1min

ReportPeriodicity-Scaledhour ::= INTEGER (1..24,...)
-- Unit hour, Range 1hour .. 24hours(day), Step 1hour

ResourceOperationalState ::= ENUMERATED {
  enabled,
  disabled
}

RL-ID ::= INTEGER (0..31)

RL-Set-ID ::= INTEGER (0..31)

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)

RNC-ID ::= INTEGER (0..4095)

Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [22]

RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]

```

```

RSCP-Value-IncrDecrThres ::= INTEGER (0..126)

Received-total-wide-band-power-Value ::= INTEGER(0..621)
-- According to mapping in [22]/[23]

Received-total-wide-band-power-Value-IncrDecrThres ::= INTEGER (0..620)

RequestedDataValueInformation ::= CHOICE {
    informationAvailable      InformationAvailable,
    informationnotAvailable   InformationnotAvailable
}

InformationAvailable ::= SEQUENCE {
    requesteddataValue      RequestedDataValue,
    ie-Extensions          ProtocolExtensionContainer ( { InformationAvailableItem-ExtIEs} )
    OPTIONAL,
    ...
}

InformationAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

InformationnotAvailable ::= NULL

RequestedDataValue ::= SEQUENCE {
    dgps-corrections        DGPSCorrections OPTIONAL,
    gps-navandrecovery      GPS-NavigationModel-and-TimeRecovery OPTIONAL,
    gps-ionos-model         GPS-Ionospheric-Model OPTIONAL,
    gps-utc-model           GPS-UTC-Model OPTIONAL,
    gps-almanac             GPS-Almanac OPTIONAL,
    gps-rt-integrity       GPS-RealTime-Integrity OPTIONAL,
    gpsrxpos                GPS-RX-POS OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer ( { RequestedDataValue-ExtIEs} ) OPTIONAL,
    ...
}

RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
-- According to mapping in [23]

Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
-- According to mapping in [23]

-- =====
-- S
-- =====

AdjustmentPeriod          ::= INTEGER(1..256)
-- Unit Frame

SAT-ID ::= INTEGER (0..63)

SAT-Info-Almanac ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-Almanac-Item

SAT-Info-Almanac-Item ::= SEQUENCE (
    data-id      DATA-ID,
    sat-id       SAT-ID,
    gps-e-alm    BIT STRING (SIZE (16)),
    gps-toa-alm  BIT STRING (SIZE (8)),
    gps-delta-I-alm BIT STRING (SIZE (16)),
    omegadot-alm BIT STRING (SIZE (16)),
    svhealth-alm BIT STRING (SIZE (8)),
    gps-a-sqrt-alm BIT STRING (SIZE (24)),
    omegazero-alm BIT STRING (SIZE (24)),
    m-zero-alm   BIT STRING (SIZE (24)),
    gps-omega-alm BIT STRING (SIZE (24)),

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```

gps-af-zero-alm      BIT STRING (SIZE (11)),
gps-af-one-alm      BIT STRING (SIZE (11)),
ie-Extensions       ProtocolExtensionContainer { { SAT-Info-Almanac-Item-ExtIEs} } OPTIONAL,
...
}

SAT-Info-Almanac-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SAT-Info-DGPSCorrections ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-DGPSCorrections-Item

SAT-Info-DGPSCorrections-Item ::= SEQUENCE (
sat-id              SAT-ID,
iode-dgps          BIT STRING (SIZE (8)),
udre              UDRE,
prc              PRC,
range-correction-rate Range-Correction-Rate,
ie-Extensions     ProtocolExtensionContainer { { SAT-Info-DGPSCorrections-
Item-ExtIEs} } OPTIONAL,
...
)

SAT-Info-DGPSCorrections-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SATInfo-RealTime-Integrity ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-RealTime-Integrity-Item

SAT-Info-RealTime-Integrity-Item ::= SEQUENCE (
bad-sat-id        SAT-ID,
ie-Extensions     ProtocolExtensionContainer { { SAT-Info-RealTime-Integrity-Item-ExtIEs} }
OPTIONAL,
...
)

SAT-Info-RealTime-Integrity-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

MaxAdjustmentStep ::= INTEGER(1..10)
-- Unit Slot

ScramblingCodeNumber ::= INTEGER (0..15)

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17,...)

Segment-Type ::= ENUMERATED {
first-segment,
first-segment-short,
subsequent-segment,
last-segment,
last-segment-short,
complete-SIB,
complete-SIB-short,
...
}

S-FieldLength ::= ENUMERATED (
v1,
v2,
...
)

SFN ::= INTEGER (0..4095)

SFNSFN-PDD ::= INTEGER (0..61439)

SFNSFN-TDD ::= INTEGER (0..40961)

```

```

SFNSFNChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

SFNSFNDriftRate ::= INTEGER (-100..100)
-- Unit chip/s, Step 1/256 chip/s, Range -100/256..+100/256 chip/s

SFNSFNDriftRateQuality ::= INTEGER (0..100)
-- Unit chip/s, Step 1/256 chip/s, Range 0..100/256 chip/s

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

SFNSFNMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SFNSFNMeasurementValueInformation ::= SEQUENCE (
    successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE
    (SIZE(1..maxNrOfMeasNCell)) OF
        SEQUENCE {
            uC-Id          UC-Id,
            sFNSFNValue    SFNSFNValue,
            sFNSFNQuality  SFNSFNQuality          OPTIONAL,
            sFNSFNDriftRate SFNSFNDriftRate,
            sFNSFNDriftRateQuality SFNSFNDriftRateQuality OPTIONAL,
            sFNSFNTimestampInformation SFNSFNTimestampInformation,
            iE-Extensions  ProtocolExtensionContainer
                               { { SuccessfullNeighbouringCellSFNSFNObservedTime
                               DifferenceMeasurementInformationItem-ExtIEs} }
                               OPTIONAL,
            ...
        },
    unsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE
    (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEQUENCE {
            uC-Id          UC-Id,
            iE-Extensions  ProtocolExtensionContainer
                               { { UnsuccessfullNeighbouringCellSFNSFNObservedTime
                               DifferenceMeasurementInformationItem-ExtIEs} }
                               OPTIONAL,
            ...
        },
    iE-Extensions        ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-
    ExtIEs} }              OPTIONAL,
    ...
)

SFNSFNMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs NBAP-
PROTOCOL-EXTENSION ::= {
    ...
}

UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs NBAP-
PROTOCOL-EXTENSION ::= {
    ...
}

SFNSFNQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip

ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec

```

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```
SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    ...
}

SIR-Error-Value ::= INTEGER (0..125)
-- According to mapping in [22]

SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD    SFN,
    sFNSFNTimeStamp-TDD    SFNSFNTimeStamp-TDD,
    ...
}

SFNSFNTimeStamp-TDD ::= SEQUENCE {
    sFN                    SFN,
    timeSlot                TimeSlot,
    iE-Extensions          ProtocolExtensionContainer ( { SFNSFNTimeStamp-ExtIEs} )    OPTIONAL,
    ...
}

SFNSFNTimeStamp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SFNSFNValue ::= CHOICE {
    sFNSFN-FDD            SFNSFN-FDD,
    sFNSFN-TDD            SFNSFN-TDD,
    ...
}

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value ::= INTEGER (0..63)
-- According to mapping in [22]/[23]

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SpecialBurstScheduling ::= INTEGER (1..256)

SSDT-Cell-Identity ::= ENUMERATED {a, b, c, d, e, f, g, h}

SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
    long
}

SSDT-Indication ::= ENUMERATED {
    ssdt-active-in-the-UE,
    ssdt-not-active-in-the-UE
}

Start-Of-Audit-Sequence-Indicator ::= ENUMERATED {
    start-of-audit-sequence,
    not-start-of-audit-sequence
}

STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    ...
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-Supported,
    sSDT-not-supported
}

SyncCase ::= INTEGER (1..2,...)
```



```

SyncFrameNumber ::= INTEGER (1..10)

SynchronisationReportCharacteristics ::= SEQUENCE {
    synchronisationReportCharacteristicsType SynchronisationReportCharacteristicsType,
    synchronisationReportCharactThreExc     SynchronisationReportCharactThreExc     OPTIONAL,
    -- This IE shall be included if the synchronisationReportCharacteristicsType IE is set to
    "thresholdExceeding".
    iE-Extensions                           ProtocolExtensionContainer
                                             { ( SynchronisationReportCharacteristics-ExtIEs ) }
                                             OPTIONAL,
    ...
}

SynchronisationReportCharacteristics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SynchronisationReportCharactThreExc ::= SEQUENCE (SIZE (1..maxNrOfCellSyncBursts)) OF
SynchronisationReportCharactThreInfoItem

SynchronisationReportCharactThreInfoItem ::= SEQUENCE (
    syncFrameNumber          SyncFrameNumber,
    cellSyncBurstInformation SEQUENCE (SIZE (1.. maxNrOfReceptsPerSyncFrame)) OF
                             SynchronisationReportCharactCellSyncBurstInfoItem,
    iE-Extensions           ProtocolExtensionContainer
                             { ( SynchronisationReportCharactThreInfoItem-ExtIEs ) }
                             OPTIONAL,
    ...
)

SynchronisationReportCharactThreInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

SynchronisationReportCharactCellSyncBurstInfoItem ::= SEQUENCE {
    cellSyncBurstCode          CellSyncBurstCode,
    cellSyncBurstCodeShift    CellSyncBurstCodeShift,
    cellSyncBurstTiming        CellSyncBurstTiming        OPTIONAL,
    cellSyncBurstTimingThreshold CellSyncBurstTimingThreshold OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer
                             { ( SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs ) }
                             OPTIONAL,
    ...
}

SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

SynchronisationReportCharacteristicsType ::= ENUMERATED {
    frameRelated,
    sFNperiodRelated,
    cycleLengthRelated,
    thresholdExceeding,
    frequencyAcquisitionCompleted,
    ...
}

SynchronisationReportType ::= ENUMERATED (
    initialPhase,
    steadyStatePhase,
    lateEntrantCell,
    frequencyAcquisition,
    ...
)

-- =====
-- T
-- =====

T-Cell ::= ENUMERATED (
    v0,
    v1,
    v2,
    v3,

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```

v4,
v5,
v6,
v7,
v8,
v9
)

```

```

T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s

```

```

TDD-ChannelisationCode ::= ENUMERATED {
chCode1div1,
chCode2div1,
chCode2div2,
chCode4div1,
chCode4div2,
chCode4div3,
chCode4div4,
chCode8div1,
chCode8div2,
chCode8div3,
chCode8div4,
chCode8div5,
chCode8div6,
chCode8div7,
chCode8div8,
chCode16div1,
chCode16div2,
chCode16div3,
chCode16div4,
chCode16div5,
chCode16div6,
chCode16div7,
chCode16div8,
chCode16div9,
chCode16div10,
chCode16div11,
chCode16div12,
chCode16div13,
chCode16div14,
chCode16div15,
chCode16div16,
...
}

```

```

TDD-ChannelisationCodeLCR ::= SEQUENCE {
tdd-ChannelisationCode      TDD-ChannelisationCode,
modulation                  Modulation,
-- Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD
iE-Extensions               ProtocolExtensionContainer ( { TDD-ChannelisationCodeLCR-
ExtIEs} )                   OPTIONAL,
...
}

```

```

TDD-ChannelisationCodeLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

TDD-DL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem

```

```

TDD-DL-Code-InformationItem ::= SEQUENCE {
dPCH-ID                    DPCH-ID,
tdd-ChannelisationCode      TDD-ChannelisationCode,
iE-Extensions               ProtocolExtensionContainer ( { TDD-DL-Code-
InformationItem-ExtIEs} )   OPTIONAL,
...
}

```

```

TDD-DL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-DL-Code-LCR-
InformationItem

```

```

TDD-DL-Code-PCR-InformationItem ::= SEQUENCE (
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCodePCR    TDD-ChannelisationCodePCR,
    tdd-DL-DPCH-TimeSlotFormat-PCR    TDD-DL-DPCH-TimeSlotFormat-PCR,
    iE-Extensions            ProtocolExtensionContainer ( { TDD-DL-Code-PCR-
                                InformationItem-ExtIEs } ) OPTIONAL,
    ...
)

TDD-DL-Code-PCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-DL-DPCH-TimeSlotFormat-PCR ::= CHOICE {
    qPSK                QPSK-DL-DPCH-TimeSlotFormatTDD-PCR,
    eightPSK            EightPSK-DL-DPCH-TimeSlotFormatTDD-PCR,
    ...
}

QPSK-DL-DPCH-TimeSlotFormatTDD-PCR ::= INTEGER(0..24,...)

EightPSK-DL-DPCH-TimeSlotFormatTDD-PCR ::= INTEGER(0..24,...)

TDD-DPCHOffset ::= CHOICE {
    initialOffset        INTEGER (0..255),
    noinitialOffset      INTEGER (0..63)
}

TDD-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    ...
}

TDD-TPC-UplinkStepSize-PCR ::= ENUMERATED (
    step-size1,
    step-size2,
    step-size3,
    ...
)

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors    SEQUENCE {
        gainFactor          CHOICE {
            fdd              SEQUENCE {
                betaC        BetaCD,
                betaD        BetaCD,
                iE-Extensions ProtocolExtensionContainer ( { GainFactorFDD-ExtIEs } )
            },
            tdd              BetaCD,
            ...
        },
        refTFCNumber        RefTFCNumber OPTIONAL,
        iE-Extensions      ProtocolExtensionContainer ( { SignalledGainFactors-ExtIEs } )
        OPTIONAL,
        ...
    },
    computedGainFactors      RefTFCNumber,
    ...
}

GainFactorFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SignalledGainFactors-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

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```

TDD-UL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem

TDD-UL-Code-InformationItem ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { ( TDD-UL-Code-
                                                                InformationItem-ExtIEs) } OPTIONAL,
    ...
}

TDD-UL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-UL-Code-LCR-
InformationItem

TDD-UL-Code-LCR-InformationItem ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    tdd-UL-DPCH-TimeSlotFormat-LCR TDD-UL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions          ProtocolExtensionContainer { ( TDD-UL-Code-LCR-
                                                                InformationItem-ExtIEs) } OPTIONAL,
    ...
}

TDD-UL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
    qpsk                QPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK            EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    ...
}

QPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..69,...)

EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)

TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    ...
}

TFCI-Presence ::= ENUMERATED {
    present,
    not-present
}

TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption TFCI-SignallingMode-TFCI-SignallingOption,
    splitType             TFCI-SignallingMode-SplitType OPTIONAL,
    -- This IE shall be present if the TFCI signalling option is split --
    lengthOfTFCI2         TFCI-SignallingMode-LengthOfTFCI2 OPTIONAL,
    -- This IE shall be present if the split type is logical --
    iE-Extensions         ProtocolExtensionContainer { ( TFCI-SignallingMode-ExtIEs) }
                                                                OPTIONAL,
    ...
}

TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)

TFCI-SignallingMode-SplitType ::= ENUMERATED {
    hard,
    logical
}

```

```

TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    split
}

TFCI2-BearerInformationResponse ::= SEQUENCE {
    bindingID                BindingID,
    transportLayerAddress    TransportLayerAddress,
    iE-Extensions            ProtocolExtensionContainer { ( TFCI2-
    ...                      BearerInformationResponse-ExtIEs) } OPTIONAL,
}

TFCI2-BearerInformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TGD ::= INTEGER (0..15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC ::= INTEGER (0..511)
-- 0 = infinity

TGPSID ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

TimeSlotLCR ::= INTEGER (0..6)

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

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

TimingAdvanceApplied ::= ENUMERATED {
    yes,
    no
}

ToAWE ::= INTEGER (0..2559)
-- Unit ms

ToAWS ::= INTEGER (0..1279)
-- Unit ms

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
        tGPSID                TGPSID,
        tGSN                  TGSN,
        tGL1                  GapLength,
        tGL2                  GapLength OPTIONAL,
        tGD                   TGD,
        tGPL1                 GapDuration,
        tGPL2                 GapDuration OPTIONAL,
    }

```

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```

    uL-DL-mode                UL-DL-mode,
    downlink-Compressed-Mode-Method  Downlink-Compressed-Mode-Method  OPTIONAL,
    -- This IE shall be present if the UL/DL mode IE is set to "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method  Uplink-Compressed-Mode-Method  OPTIONAL,
    -- This IE shall be present if the UL/DL mode IE is set to "UL only" or "UL/DL"
    dL-FrameType              DL-FrameType,
    delta-SIR1                 DeltaSIR,
    delta-SIR-after1           DeltaSIR,
    delta-SIR2                 DeltaSIR  OPTIONAL,
    delta-SIR-after2           DeltaSIR  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer ( {Transmission-Gap-Pattern-Sequence-
Information-ExtIEs} ) OPTIONAL,
    ...
)

```

```

Transmission-Gap-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED(
    code-change,
    nocode-change
)

```

```

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [22]/[23]

```

```

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [22]/[23]

```

```

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

```

```

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

```

```

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

```

```

TFCS ::= SEQUENCE (
    tFCSvalues                CHOICE {
        no-Split-in-TFCI      TFCs-TFCsList,
        split-in-TFCI         SEQUENCE {
            transportFormatCombination-DCH  TFCs-DCHList,
            signallingMethod                 CHOICE {
                tFCI-Range                   TFCs-MappingOnDSCHList,
                explicit                      TFCs-DSCHList,
                ...
            },
            iE-Extensions                ProtocolExtensionContainer ( { Split-in-TFCI-
ExtIEs } )  OPTIONAL,
            ...
        },
        ...
    },
    iE-Extensions                ProtocolExtensionContainer ( { TFCS-ExtIEs} )  OPTIONAL,
    ...
)

```

```

Split-in-TFCI-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

TFCs-TFCsList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
  SEQUENCE {
    cTFC                TFCs-CTFC,
    tFC-Beta            TransportFormatCombination-Beta    OPTIONAL,
    -- The IE shall be present if the TFCs concerns a UL DPCH or PRACH channel [FDD - or PCPCH
    -- channel].
    iE-Extensions      ProtocolExtensionContainer ( { TFCs-TFCsList-ExtIEs} )    OPTIONAL,
    ...
  }

TFCs-TFCsList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCs-CTFC ::= CHOICE (
  ctfc2bit            INTEGER (0..3),
  ctfc4bit            INTEGER (0..15),
  ctfc6bit            INTEGER (0..63),
  ctfc8bit            INTEGER (0..255),
  ctfc12bit           INTEGER (0..4095),
  ctfc16bit           INTEGER (0..65535),
  ctfcmaxbit          INTEGER (0..maxCTFC)
)

TFCs-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
  SEQUENCE {
    cTFC                TFCs-CTFC,
    iE-Extensions      ProtocolExtensionContainer ( { TFCs-DCHList-ExtIEs} )    OPTIONAL,
    ...
  }

TFCs-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCs-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value TFCs-MaxTFCI-field2-Value,
    cTFC-DSCH            TFCs-CTFC,
    iE-Extensions      ProtocolExtensionContainer ( { TFCs-MappingOnDSCHList-ExtIEs} )
    OPTIONAL,
    ...
  }

TFCs-MappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCs-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1)

TFCs-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH          TFCs-CTFC,
    iE-Extensions      ProtocolExtensionContainer ( { TFCs-DSCHList-ExtIEs} )    OPTIONAL,
    ...
  }

TFCs-DSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportBearerRequestIndicator ::= ENUMERATED (
  bearerRequested,
  bearerNotRequested,
  ...
)

TransportFormatSet ::= SEQUENCE {
  dynamicParts          TransportFormatSet-DynamicPartList,
  semi-staticPart       TransportFormatSet-Semi-staticPart,
  iE-Extensions        ProtocolExtensionContainer ( { TransportFormatSet-ExtIEs} )
  OPTIONAL,
  ...
}

```

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```

TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
    SEQUENCE {
        nrOfTransportBlocks      TransportFormatSet-NrOfTransportBlocks,
        transportBlockSize      TransportFormatSet-TransportBlockSize      OPTIONAL,
        -- This IE shall be present if the Number of Transport Blocks IE is set to a value greater
        than 0
        mode                      TransportFormatSet-ModeDP,
        iE-Extensions            ProtocolExtensionContainer ( { TransportFormatSet-
                                DynamicPartList-ExtIEs} )      OPTIONAL,
        ...
    }

TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-TransportFormatSet-ModeDP ::= SEQUENCE (
    transmissionTimeIntervalInformation      TransmissionTimeIntervalInformation      OPTIONAL,
    -- This IE shall be present if the Transmission Time Interval IE in the Semi-static Transport
    Format Information IE is set to "dynamic"
    iE-Extensions                          ProtocolExtensionContainer ( {TDD-TransportFormatSet-
                                ModeDP-ExtIEs} ) OPTIONAL,
    ...
)

TDD-TransportFormatSet-ModeDP-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxPTI-count)) OF
    SEQUENCE {
        transmissionTimeInterval      TransportFormatSet-TransmissionTimeIntervalDynamic,
        iE-Extensions                ProtocolExtensionContainer
                                    ( { TransmissionTimeIntervalInformation-ExtIEs} ) OPTIONAL,
        ...
    }

TransmissionTimeIntervalInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTimeInterval      TransportFormatSet-TransmissionTimeIntervalSemiStatic,
    channelCoding                 TransportFormatSet-ChannelCodingType,
    codingRate                    TransportFormatSet-CodingRate      OPTIONAL,
    -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or
    'turbo'
    rateMatchingAttribute         TransportFormatSet-RateMatchingAttribute,
    crc-Size                      TransportFormatSet-CRC-Size,
    mode                          TransportFormatSet-ModeSSP ,
    iE-Extensions                ProtocolExtensionContainer ( { TransportFormatSet-Semi-
                                staticPart-ExtIEs} )      OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED (
    no-codingTDD,
    convolutional-coding,
    turbo-coding,
    ...
)

TransportFormatSet-CodingRate ::= ENUMERATED (
    half,
    third,
    ...
)

```



```

TransportFormatSet-CRC-Size ::= ENUMERATED (
    v0,
    v8,
    v12,
    v16,
    v24,
    ...
)

TransportFormatSet-ModeDP ::= CHOICE {
    tdd                TDD-TransportFormatSet-ModeDP,
    notApplicable     NULL,
    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd                TransportFormatSet-SecondInterleavingMode,
    notApplicable     NULL,
    ...
}

TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..512)

TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeSlot-related,
    ...
}

TransportFormatSet-TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    ...
}

TransportFormatSet-TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    ...,
    msec-5
}

TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)

TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))

TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

TUTRANGPS ::= SEQUENCE {
    ms-part    INTEGER (0..16383),
    ls-part    INTEGER (0..4294967295)
}

TUTRANGPSChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

TUTRANGPSDriftRate ::= INTEGER (-50..50)
-- Unit chip/s, Step 1/256 chip/s, Range -50/256..+50/256 chip/s

TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
-- Unit chip/s, Step 1/256 chip/s, Range 0..50/256 chip/s

TUTRANGPSAccuracyClass ::= ENUMERATED {
    accuracy-class-A,

```

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```

    accuracy-class-B,
    accuracy-class-C,
    ...
)

TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit          TUTRANGPSChangeLimit          OPTIONAL,
    predictedTUTRANGPSDeviationLimit PredictedTUTRANGPSDeviationLimit OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer
    ( { TUTRANGPSMeasurementThresholdInformation-ExtIEs} )
    OPTIONAL,
    ...
}

TUTRANGPSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
    tUTRANGPS                    TUTRANGPS,
    tUTRANGPSQuality              TUTRANGPSQuality          OPTIONAL,
    tUTRANGPSDriftRate            TUTRANGPSDriftRate,
    tUTRANGPSDriftRateQuality     TUTRANGPSDriftRateQuality  OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer
    ( {TUTRANGPSMeasurementValueInformationItem-ExtIEs} )
    OPTIONAL,
    ...
}

TUTRANGPSMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

TUTRANGPSQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip

TypeOfError ::= ENUMERATED {
    not-understood,
    missing,
    ...
}

-- =====
-- U
-- =====

UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 0MHz .. 3276.6MHz

UC-Id ::= SEQUENCE {
    rNC-ID          RNC-ID,
    c-ID            C-ID,
    iE-Extensions   ProtocolExtensionContainer { (UC-Id-ExtIEs) } OPTIONAL,
    ...
}

UC-Id-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
    ...
)

UDRE ::= ENUMERATED {
    udre-minusequal-one-m,
    udre-betweenoneandfour-m,
    udre-betweenfourandeight-m,
    udre-greaterequaleight-m
}

UL-CapacityCredit ::= INTEGER (0..65535)

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

```

```

)

Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    ...
}

UL-Timeslot-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem

UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence           TFCI-Presence,
    uL-Code-InformationList TDD-UL-Code-Information,
    iE-Extensions           ProtocolExtensionContainer { { UL-Timeslot-
                           InformationItem-ExtIEs } } OPTIONAL,
    ...
}

UL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeslotLCR-
InformationItem

UL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR,
    tFCI-Presence              TFCI-Presence,
    uL-Code-InformationList     TDD-UL-Code-LCR-Information,
    iE-Extensions              ProtocolExtensionContainer { { UL-TimeslotLCR-
                           InformationItem-ExtIEs } } OPTIONAL,
    ...
}

UL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCCH-SlotFormat ::= INTEGER (0..5,...)

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    ...
}

UL-PhysCH-SF-Variation ::= ENUMERATED {
    sf-variation-supported,
    sf-variation-not-supported
}

UL-ScramblingCode ::= SEQUENCE {
    uL-ScramblingCodeNumber    UL-ScramblingCodeNumber,
    uL-ScramblingCodeLength    UL-ScramblingCodeLength,
    iE-Extensions              ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } }
    OPTIONAL,
    ...
}

UL-ScramblingCode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-ScramblingCodeNumber ::= INTEGER (0..16777215)

UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}

```

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```

}

UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-TimeSlot-ISCP-InfoItem

UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot          TimeSlot,
    iSCP              UL-TimeSlotISCP-Value,
    iE-Extensions     ProtocolExtensionContainer ( { UL-TimeSlot-ISCP-InfoItem-
        ...
        ExtIEs} )     OPTIONAL,
}

UL-TimeSlot-ISCP-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeSlot-ISCP-LCR-
InfoItem

UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR      TimeSlotLCR,
    iSCP             UL-TimeSlotISCP-Value,
    iE-Extensions     ProtocolExtensionContainer ( { UL-TimeSlot-ISCP-LCR-InfoItem-
        ...
        ExtIEs} )     OPTIONAL,
}

UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UpPTSInterferenceValue ::= INTEGER (0..127,...)

USCH-Information ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem

USCH-InformationItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    cCTrCH-ID        CCTrCH-ID,
    transportFormatSet TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    iE-Extensions     ProtocolExtensionContainer ( { USCH-InformationItem-
        ...
        ExtIEs} )     OPTIONAL,
}

USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem

USCH-InformationResponseItem ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    bindingID        BindingID          OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer ( { USCH-
        ...
        InformationResponseItem-ExtIEs} )     OPTIONAL,
}

USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-TimeSlotISCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]

UL-TimeSlotISCP-Value-IncrDecrThres ::= INTEGER (0..126)

USCH-ID ::= INTEGER (0..255)

UL-Synchronisation-Parameters-LCR ::= SEQUENCE {
    uL-Synchronisation-StepSize UL-Synchronisation-StepSize,
    uL-Synchronisation-Frequency UL-Synchronisation-Frequency,
    iE-Extensions               ProtocolExtensionContainer ( { UL-Synchronisation-

```

```

Parameters-PCR-ExtIEs } ) OPTIONAL,
)
...
)
UL-Synchronisation-Parameters-PCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= (
)
...
)
UL-Synchronisation-StepSize ::= INTEGER (1..8)
UL-Synchronisation-Frequency ::= INTEGER (1..8)
-- =====
-- V
-- =====
-- =====
-- W
-- =====
-- =====
-- X
-- =====
-- =====
-- Y
-- =====
-- =====
-- Z
-- =====
END

```

### 9.3.5 Common Definitions

```

-- *****
--
-- Common definitions
--
-- *****

NBAP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Extension constants
--
-- *****

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs        INTEGER ::= 65535

-- *****
--
-- Common Data Types
--
-- *****

Criticality ::= ENUMERATED { reject, ignore, notify }

MessageDiscriminator ::= ENUMERATED { common, dedicated }

Presence ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID ::= CHOICE {
local          INTEGER (0..maxPrivateIEs),
global        OBJECT IDENTIFIER
}

```

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```
}  
  
ProcedureCode ::= INTEGER (0..255)  
  
ProcedureID ::= SEQUENCE {  
    procedureCode ProcedureCode,  
    ddMode        ENUMERATED ( tdd, fdd, common, ... )  
}  
  
ProtocolIE-ID ::= INTEGER (0..maxProtocolIEs)  
  
TransactionID ::= CHOICE {  
    shortTransactionId INTEGER (0..127),  
    longTransactionId  INTEGER (0..32767)  
}  
  
TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome,  
outcome }  
  
END
```

### 9.3.6 Constant Definitions

```
-- *****  
--  
-- Constant definitions  
--  
-- *****  
  
NBAP-Constants {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)  
  
DEFINITIONS AUTOMATIC TAGS ::=  
  
BEGIN  
  
IMPORTS  
    ProcedureCode,  
    ProtocolIE-ID  
FROM NBAP-CommonDataTypes;  
  
-- *****  
--  
-- Elementary Procedures  
--  
-- *****  
  
id-audit ProcedureCode ::= 0  
id-auditRequired ProcedureCode ::= 1  
id-blockResource ProcedureCode ::= 2  
id-cellDeletion ProcedureCode ::= 3  
id-cellReconfiguration ProcedureCode ::= 4  
id-cellSetup ProcedureCode ::= 5  
id-cellSynchronisationInitiation ProcedureCode ::= 45  
id-cellSynchronisationReconfiguration ProcedureCode ::= 46  
id-cellSynchronisationReporting ProcedureCode ::= 47  
id-cellSynchronisationTermination ProcedureCode ::= 48  
id-cellSynchronisationFailure ProcedureCode ::= 49  
id-commonMeasurementFailure ProcedureCode ::= 6  
id-commonMeasurementInitiation ProcedureCode ::= 7  
id-commonMeasurementReport ProcedureCode ::= 8  
id-commonMeasurementTermination ProcedureCode ::= 9  
id-commonTransportChannelDelete ProcedureCode ::= 10  
id-commonTransportChannelReconfigure ProcedureCode ::= 11  
id-commonTransportChannelSetup ProcedureCode ::= 12  
id-compressedModeCommand ProcedureCode ::= 14  
id-dedicatedMeasurementFailure ProcedureCode ::= 16  
id-dedicatedMeasurementInitiation ProcedureCode ::= 17  
id-dedicatedMeasurementReport ProcedureCode ::= 18  
id-dedicatedMeasurementTermination ProcedureCode ::= 19  
id-downlinkPowerControl ProcedureCode ::= 20  
id-downlinkPowerTimeslotControl ProcedureCode ::= 38  
id-errorIndicationForCommon ProcedureCode ::= 35  
id-errorIndicationForDedicated ProcedureCode ::= 21
```

id-informationExchangeFailure	ProcedureCode ::= 40
id-informationExchangeInitiation	ProcedureCode ::= 41
id-informationExchangeTermination	ProcedureCode ::= 42
id-informationReporting	ProcedureCode ::= 43
id-physicalSharedChannelReconfiguration	ProcedureCode ::= 37
id-privateMessageForCommon	ProcedureCode ::= 36
id-privateMessageForDedicated	ProcedureCode ::= 22
id-radioLinkAddition	ProcedureCode ::= 23
id-radioLinkDeletion	ProcedureCode ::= 24
id-radioLinkFailure	ProcedureCode ::= 25
id-radioLinkPreemption	ProcedureCode ::= 39
id-radioLinkRestoration	ProcedureCode ::= 26
id-radioLinkSetup	ProcedureCode ::= 27
id-reset	ProcedureCode ::= 13
id-resourceStatusIndication	ProcedureCode ::= 28
id-cellSynchronisationAdjustment	ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 31
id-systemInformationUpdate	ProcedureCode ::= 32
id-unblockResource	ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 34

-- \*\*\*\*\*

--

-- Lists

--

-- \*\*\*\*\*

maxNrOfCodes	INTEGER ::= 10
maxNrOfDLTSs	INTEGER ::= 15
maxNrOfDLTSLCRs	INTEGER ::= 6
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLs-1	INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHLCRs	INTEGER ::= 240
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfCPCHs	INTEGER ::= 16
maxNrOfPCPCHs	INTEGER ::= 64
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDSCHs	INTEGER ::= 32
maxNrOfFACHs	INTEGER ::= 8
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfPDSCHs	INTEGER ::= 256
maxNrOfPUSCHs	INTEGER ::= 256
maxNrOfPDSCHSets	INTEGER ::= 256
maxNrOfPRACHLCRs	INTEGER ::= 8
maxNrOfPUSCHSets	INTEGER ::= 256
maxNrOfSCCPCHLCRs	INTEGER ::= 8
maxNrOfULTSs	INTEGER ::= 15
maxNrOfULTSLCRs	INTEGER ::= 6
maxNrOfUSCHs	INTEGER ::= 32
maxAPSigNum	INTEGER ::= 16
maxNrOfSlotFormatsPRACH	INTEGER ::= 8
maxCellinNodeB	INTEGER ::= 256
maxCCPinNodeB	INTEGER ::= 256
maxCPCHCell	INTEGER ::= maxNrOfCPCHs
maxCTFC	INTEGER ::= 16777215
maxLocalCellinNodeB	INTEGER ::= maxCellinNodeB
maxNoofLen	INTEGER ::= 7
maxFPACHCell	INTEGER ::= 8
maxRACHCell	INTEGER ::= maxPRACHCell
maxPRACHCell	INTEGER ::= 16
maxPCPCHCell	INTEGER ::= 64
maxSCCPCHCell	INTEGER ::= 32
maxSCPICHCell	INTEGER ::= 32
maxTTI-count	INTEGER ::= 4
maxIBSEG	INTEGER ::= 16
maxIB	INTEGER ::= 64
maxFACHCell	INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell

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```

maxRateMatching          INTEGER ::= 256
maxCodeNrComp-1         INTEGER ::= 256
maxNrOfCellSyncBursts   INTEGER ::= 10
maxNrOfCodeGroups       INTEGER ::= 256
maxNrOfReceptsPerSyncFrame  INTEGER ::= 16
maxNrOfMeasNCell        INTEGER ::= 96
maxNrOfMeasNCell-1      INTEGER ::= 95 -- maxNrOfMeasNCell - 1
maxNrOfTFCIGroups       INTEGER ::= 256
maxNrOfTFCI1Combs       INTEGER ::= 512
maxNrOfTFCI2Combs       INTEGER ::= 1024
maxNrOfTFCI2Combs-1     INTEGER ::= 1023
maxNrOfSF                INTEGER ::= 8
maxTGPS                 INTEGER ::= 6
maxCommunicationContext  INTEGER ::= 1048575
maxNrOfLevels            INTEGER ::= 256
maxNoSat                 INTEGER ::= 16
maxNoGPSItems            INTEGER ::= 8
maxFrequencyinCell      INTEGER ::= 12
maxFrequencyinCell-1    INTEGER ::= 11 -- maxFrequencyinCell-1

```

```

-- *****
--
-- IEs
--
-- *****

```

```

id-AICH-Information          ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd  ProtocolIE-ID ::= 1
id-BCH-Information          ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd    ProtocolIE-ID ::= 8
id-BCCH-ModificationTime    ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator ProtocolIE-ID ::= 10
id-Cause                    ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp             ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp            ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd    ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp           ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd   ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp          ProtocolIE-ID ::= 19
id-CellParameterID          ProtocolIE-ID ::= 23
id-CFN                       ProtocolIE-ID ::= 24
id-C-ID                      ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy  ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt     ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst    ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp     ProtocolIE-ID ::= 33
id-CommonMeasurementType      ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID    ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD ProtocolIE-ID ::= 37
id-CommunicationControlPortID ProtocolIE-ID ::= 40
id-ConfigurationGenerationID  ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID ProtocolIE-ID ::= 44
id-CriticalityDiagnostics     ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD           ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD          ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD          ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-ReconfPrepFDD       ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD       ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD       ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD       ProtocolIE-ID ::= 55
id-DCH-FDD-Information        ProtocolIE-ID ::= 56
id-DCH-TDD-Information        ProtocolIE-ID ::= 57
id-DCH-InformationResponse    ProtocolIE-ID ::= 59
id-FDD-DCHs-to-Modify        ProtocolIE-ID ::= 62
id-TDD-DCHs-to-Modify        ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRqstTDD       ProtocolIE-ID ::= 65
id-DedicatedMeasurementObjectType-DM-Rprt ProtocolIE-ID ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst ProtocolIE-ID ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp  ProtocolIE-ID ::= 69
id-DedicatedMeasurementType    ProtocolIE-ID ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD ProtocolIE-ID ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD ProtocolIE-ID ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD ProtocolIE-ID ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD ProtocolIE-ID ::= 77

```



id-DL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	ProtocolIE-ID ::= 84
id-DLReferencePower	ProtocolIE-ID ::= 85
id-DLReferencePowerList-DL-PC-Rqst	ProtocolIE-ID ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 87
id-DSCHs-to-Add-FDD	ProtocolIE-ID ::= 89
id-DSCH-DeleteItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 91
id-DSCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 93
id-DSCHs-to-Add-TDD	ProtocolIE-ID ::= 96
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 98
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 100
id-DSCH-InformationResponse	ProtocolIE-ID ::= 105
id-DSCH-FDD-Information	ProtocolIE-ID ::= 106
id-DSCH-TDD-Information	ProtocolIE-ID ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 108
id-DSCH-ModifyList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 112
id-End-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 113
id-FACH-Information	ProtocolIE-ID ::= 116
id-FACH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 117
id-FACH-ParametersList-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 122
id-IndicationType-ResourceStatusInd	ProtocolIE-ID ::= 123
id-Local-Cell-ID	ProtocolIE-ID ::= 124
id-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 2
id-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 3
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 4
id-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 5
id-Local-Cell-InformationItem-AuditRsp	ProtocolIE-ID ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 127
id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128
id-AdjustmentPeriod	ProtocolIE-ID ::= 129
id-MaxAdjustmentStep	ProtocolIE-ID ::= 130
id-MaximumTransmissionPower	ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 132
id-MeasurementID	ProtocolIE-ID ::= 133
id-MessageStructure	ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID ::= 134
id-NodeB-CommunicationContextID	ProtocolIE-ID ::= 143
id-NeighbouringCellMeasurementInformation	ProtocolIE-ID ::= 455
id-P-CCPCH-Information	ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 145
id-P-CPICH-Information	ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 147
id-P-SCH-Information	ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 157
id-PCH-Information	ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 165
id-PICH-Information	ProtocolIE-ID ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 168
id-PowerAdjustmentType	ProtocolIE-ID ::= 169
id-PRACH-Information	ProtocolIE-ID ::= 170
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 180
id-PrimaryScramblingCode	ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 183
id-SCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 186

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id-PUSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 189
id-RACH-Information	ProtocolIE-ID ::= 190
id-RACH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 197
id-ReportCharacteristics	ProtocolIE-ID ::= 198
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID ::= 199
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID ::= 200
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID ::= 202
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID ::= 203
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	ProtocolIE-ID ::= 205
id-RL-informationItem-RL-DeletionRqst	ProtocolIE-ID ::= 206
id-RL-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 207
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolIE-ID ::= 286
id-RL-InformationItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID ::= 212
id-RL-informationList-RL-DeletionRqst	ProtocolIE-ID ::= 213
id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 237
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 215
id-RL-InformationList-RL-SetupRqstFDD	ProtocolIE-ID ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID ::= 221
id-RL-InformationResponseList-RL-ReconfReady	ProtocolIE-ID ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 226
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::= 227
id-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocolIE-ID ::= 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SPN	ProtocolIE-ID ::= 268
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocolIE-ID ::= 508
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 284

id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-CPCH-Information	ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357
id-DL-TPC-Pattern01Count	ProtocolIE-ID ::= 358
id-DPC-Mode	ProtocolIE-ID ::= 450
id-DPCHConstant	ProtocolIE-ID ::= 359
id-DSCH-FDD-Common-Information	ProtocolIE-ID ::= 94
id-EnhancedDSCHPC	ProtocolIE-ID ::= 110
id-EnhancedDSCHPCIndicator	ProtocolIE-ID ::= 111
id-FACH-ParametersList-CTCH-SetupRsp	ProtocolIE-ID ::= 362
id-Limited-power-increase-information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 375
id-PCPCH-Information	ProtocolIE-ID ::= 376
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380
id-PRACHConstant	ProtocolIE-ID ::= 381
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 383
id-PUSCHConstant	ProtocolIE-ID ::= 384
id-RACH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 385
id-SSDT-CellIDforEDSCHPC	ProtocolIE-ID ::= 443
id-Synchronisation-Configuration-Cell-ReconfRqst	ProtocolIE-ID ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst	ProtocolIE-ID ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403

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id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 409
id-CommunicationContextInfoItem-Reset	ProtocolIE-ID ::= 412
id-CommunicationControlPortInfoItem-Reset	ProtocolIE-ID ::= 414
id-ResetIndicator	ProtocolIE-ID ::= 416
id-TFCI2-Bearer-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 417
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD	ProtocolIE-ID ::= 418
id-TFCI2-BearerInformationResponse	ProtocolIE-ID ::= 419
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287
id-CFNReportingIndicator	ProtocolIE-ID ::= 6
id-SFNReportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12
id-TimeslotISCPInfo	ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 167
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD	ProtocolIE-ID ::= 494
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 482
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 423
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 424
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 425
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 427
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 428
id-CellSyncInfo-CellSyncReprtTDD	ProtocolIE-ID ::= 429
id-CSBTransmissionID	ProtocolIE-ID ::= 430
id-CSBMeasurementID	ProtocolIE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432
id-NCyclesPerSFNperiod	ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434
id-SyncFrameNumber	ProtocolIE-ID ::= 437
id-SynchronisationReportType	ProtocolIE-ID ::= 438
id-SynchronisationReportCharacteristics	ProtocolIE-ID ::= 439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 119
id-ReferenceClockAvailability	ProtocolIE-ID ::= 435
id-ReferenceSFNoffset	ProtocolIE-ID ::= 436
id-InformationExchangeID	ProtocolIE-ID ::= 444
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID ::= 445
id-InformationType	ProtocolIE-ID ::= 446
id-InformationReportCharacteristics	ProtocolIE-ID ::= 447
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID ::= 448
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID ::= 449
id-IPDLParameter-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 451
id-IPDLParameter-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 452
id-IPDLParameter-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 453
id-IPDLParameter-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 454
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 74
id-DwPCH-LCR-Information	ProtocolIE-ID ::= 78
id-DwPCH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 90
id-DwPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 97
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 99
id-DwPCH-LCR-Information-ResourceStatusInd	ProtocolIE-ID ::= 101
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 154
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 174
id-FPACH-LCR-Information	ProtocolIE-ID ::= 290
id-FPACH-LCR-Information-AuditRsp	ProtocolIE-ID ::= 292
id-FPACH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 22
id-FPACH-LCR-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 311
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 312
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 314
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 456
id-PCH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 457
id-PCH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 458
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 459
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 461
id-RL-InformationResponse-LCR-RL-SetupRspTDD	ProtocolIE-ID ::= 463
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 465

```

id-TimeSlot                               ProtocolIE-ID ::= 495
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ProtocolIE-ID ::= 466
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ProtocolIE-ID ::= 467
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD ProtocolIE-ID ::= 468
id-TimeSlotLCR-CM-Rqst                     ProtocolIE-ID ::= 469
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 470
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 472
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 473
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 474
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 475
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 477
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 479
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ProtocolIE-ID ::= 480
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 481
id-UL-DPCH-LCR-InformationModify-AddList ProtocolIE-ID ::= 483
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 485
id-UL-SIRTarget                            ProtocolIE-ID ::= 510
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 486
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst ProtocolIE-ID ::= 487
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst ProtocolIE-ID ::= 489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst ProtocolIE-ID ::= 491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD ProtocolIE-ID ::= 497
id-PUSCH-Info-DM-Rqst                      ProtocolIE-ID ::= 505
id-PUSCH-Info-DM-Rsp                       ProtocolIE-ID ::= 506
id-PUSCH-Info-DM-Rprt                      ProtocolIE-ID ::= 507
id-InitDL-Power                            ProtocolIE-ID ::= 509
id-cellSyncBurstRepetitionPeriod           ProtocolIE-ID ::= 511
id-ReportCharacteristicsType-OnModification ProtocolIE-ID ::= 512
id-SFNPFNMeasurementValueInformation        ProtocolIE-ID ::= 513
id-SFNPFNMeasurementThresholdInformation    ProtocolIE-ID ::= 514
id-TUTRANGPSMeasurementValueInformation    ProtocolIE-ID ::= 515
id-TUTRANGPSMeasurementThresholdInformation ProtocolIE-ID ::= 516
id-Rx-Timing-Deviation-Value-LCR           ProtocolIE-ID ::= 520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD ProtocolIE-ID ::= 51
id-PDSCH-RL-ID                             ProtocolIE-ID ::= 66
id-UL-Synchronisation-Parameters-LCR      ProtocolIE-ID ::= 554
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD ProtocolIE-ID ::= 563
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD ProtocolIE-ID ::= 564
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD ProtocolIE-ID ::= 565
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD ProtocolIE-ID ::= 566
id-Angle-Of-Arrival-Value-LCR              ProtocolIE-ID ::= 521
id-UpPTSInterferenceValue                  ProtocolIE-ID ::= 622
id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp ProtocolIE-ID ::= 2000
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp ProtocolIE-ID ::= 2001
id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD ProtocolIE-ID ::= 2002
id-URAFCN-Adjustment                       ProtocolIE-ID ::= 2003
id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd ProtocolIE-ID ::= 2004
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd ProtocolIE-ID ::= 2005

```

END

### 9.3.7 Container Definitions

```

-- *****
--
-- Container definitions
--
-- *****

NBAP-Containers (
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Containers (5) )

DEFINITIONS AUTOMATIC TAGS ::=

```

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BEGIN

```
-- *****
--
-- IE parameter types from other modules.
--
-- *****
```

IMPORTS

```
    maxProtocolExtensions,
    maxPrivateIEs,
    maxProtocolIEs,
    Criticality,
    Presence,
    PrivateIE-ID,
    ProtocolIE-ID
```

FROM NBAP-CommonDataTypes;

```
-- *****
--
-- Class Definition for Protocol IEs
--
-- *****
```

```
NBAP-PROTOCOL-IES ::= CLASS {
    &id          ProtocolIE-ID          UNIQUE,
    &criticality Criticality,
    &Value,
    &presence    Presence
}
```

```
WITH SYNTAX {
    ID          &id
    CRITICALITY &criticality
    TYPE        &Value
    PRESENCE    &presence
}
```

```
-- *****
--
-- Class Definition for Protocol IEs
--
-- *****
```

```
NBAP-PROTOCOL-IES-PAIR ::= CLASS {
    &id          ProtocolIE-ID          UNIQUE,
    &firstCriticality Criticality,
    &FirstValue,
    &secondCriticality Criticality,
    &SecondValue,
    &presence    Presence
}
```

```
WITH SYNTAX {
    ID          &id
    FIRST CRITICALITY &firstCriticality
    FIRST TYPE      &FirstValue
    SECOND CRITICALITY &secondCriticality
    SECOND TYPE     &SecondValue
    PRESENCE       &presence
}
```

```
-- *****
--
-- Class Definition for Protocol Extensions
--
-- *****
```

```
NBAP-PROTOCOL-EXTENSION ::= CLASS {
    &id          ProtocolIE-ID          UNIQUE,
    &criticality Criticality,
    &Extension,
    &presence    Presence
}
```

```
WITH SYNTAX {
    ID          &id
    CRITICALITY &criticality
}
```

```

EXTENSION    &Extension
PRESENCE     &presence
}
-- *****
--
-- Class Definition for Private IEs
--
-- *****

NBAP-PRIVATE-IES ::= CLASS (
    &id          PrivateIE-ID,
    &criticality Criticality,
    &Value,
    &presence    Presence
)
WITH SYNTAX (
    ID          &id
    CRITICALITY &criticality
    TYPE        &Value
    PRESENCE    &presence
)
-- *****
--
-- Container for Protocol IEs
--
-- *****

ProtocolIE-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
    SEQUENCE (SIZE {0..maxProtocolIEs}) OF
        ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Single-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
    ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
    id          NBAP-PROTOCOL-IES.&id          {{IEsSetParam}},
    criticality NBAP-PROTOCOL-IES.&criticality {{IEsSetParam}}{@id}},
    value       NBAP-PROTOCOL-IES.&Value      {{IEsSetParam}}{@id}}
}
-- *****
--
-- Container for Protocol IE Pairs
--
-- *****

ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
    SEQUENCE (SIZE {0..maxProtocolIEs}) OF
        ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {
    id                NBAP-PROTOCOL-IES-PAIR.&id                {{IEsSetParam}},
    firstCriticality  NBAP-PROTOCOL-IES-PAIR.&firstCriticality  {{IEsSetParam}}{@id}},
    firstValue        NBAP-PROTOCOL-IES-PAIR.&firstValue        {{IEsSetParam}}{@id}},
    secondCriticality NBAP-PROTOCOL-IES-PAIR.&secondCriticality {{IEsSetParam}}{@id}},
    secondValue       NBAP-PROTOCOL-IES-PAIR.&secondValue       {{IEsSetParam}}{@id}}
}
-- *****
--
-- Container Lists for Protocol IE Containers
--
-- *****

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES :
IEsSetParam} ::=
    SEQUENCE (SIZE {lowerBound..upperBound}) OF
        ProtocolIE-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR :
IEsSetParam} ::=
    SEQUENCE (SIZE {lowerBound..upperBound}) OF
        ProtocolIE-ContainerPair {{IEsSetParam}}

```

```

-- *****
--
-- Container for Protocol Extensions
--
-- *****

ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
    SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
        ProtocolExtensionField {{ExtensionSetParam}}

ProtocolExtensionField (NBAP-PROTOCOL-EXTENSION : ExtensionSetParam) ::= SEQUENCE (
    id                NBAP-PROTOCOL-EXTENSION.&id ((ExtensionSetParam)),
    criticality       NBAP-PROTOCOL-EXTENSION.&criticality ((ExtensionSetParam){@id}),
    extensionValue    NBAP-PROTOCOL-EXTENSION.&Extension ((ExtensionSetParam){@id})
)

-- *****
--
-- Container for Private IEs
--
-- *****

PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
    SEQUENCE (SIZE (1..maxPrivateIEs)) OF
        PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {NBAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE (
    id                NBAP-PRIVATE-IES.&id
        {{IEsSetParam}},
    criticality       NBAP-PRIVATE-IES.&criticality
        {{IEsSetParam}{@id}},
    value            NBAP-PRIVATE-IES.&Value
        {{IEsSetParam}{@id}}
)

END

```

