



## 4.2.13 Restrictions on different types of CCTrCHs

Restrictions on the different types of CCTrCHs are described in general terms in TS 25.302[11]. In this section those restrictions are given with layer 1 notation.

### 4.2.13.1 Uplink Dedicated channel (DCH)

The maximum value of the number of TrCHs  $I$  in a CCTrCH, the maximum value of the number of transport blocks  $M_i$  on each transport channel, and the maximum value of the number of DPDCHs  $P$  are given from the UE capability class.

### 4.2.13.2 Random Access Channel (RACH)

- There can only be one TrCH in each RACH CCTrCH, i.e.  $I=1$ ,  $s_k = f_{1k}$  and  $S = V_1$ .
- The maximum value of the number of transport blocks  $M_1$  on the transport channel is given from the UE capability class.
- The transmission time interval is always either 10 ms or 20 ms, i.e.  ~~$c_{1k} = c_{1k}$  and  $N_1 = E_1$~~ .
- At initial RACH transmission the rate matching attribute has a predefined value.
- Only one PRACH is used, i.e.  $P=1$ ,  $u_{1k} = s_k$ , and  $U = S$ .

### 4.2.13.3 Common Packet Channel (CPCH)

- The maximum value of the number of TrCHs  $I$  in a CCTrCH, the maximum value of the number of transport blocks  $M_i$  on each transport channel, and the maximum value of the number of DPDCHs  $P$  are given from the UE capability class.

NOTE: Only the data part of the CPCH can be mapped on multiple physical channels (this note is taken from TS 25.302).

### 4.2.13.4 Downlink Dedicated Channel (DCH)

The maximum value of the number of TrCHs  $I$  in a CCTrCH, the maximum value of the number of transport blocks  $M_i$  on each transport channel, and the maximum value of the number of DPDCHs  $P$  are given from the UE capability class.

### 4.2.13.5 Downlink Shared Channel (DSCH) associated with a DCH

- The spreading factor is indicated with the TFCI or with higher layer signalling on DCH.
- There can only be one TrCH in each DSCH CCTrCH, i.e.  $I=1$ ,  $s_k = f_{1k}$  and  $S = V_1$ .
- The maximum value of the number of transport blocks  $M_1$  on the transport channel and the maximum value of the number of PDSCHs  $P$  are given from the UE capability class.

### 4.2.13.6 Broadcast channel (BCH)

- There can only be one TrCH in the BCH CCTrCH, i.e.  $I=1$ ,  $s_k = f_{1k}$ , and  $S = V_1$ .
- There can only be one transport block in each transmission time interval, i.e.  $M_1 = 1$ .
- All transport format attributes have predefined values.
- Only one primary CCPCH is used, i.e.  $P=1$ .

#### 4.2.13.7 Forward access and paging channels (FACH and PCH)

- The maximum value of the number of TrCHs  $I$  in a CCTrCH and the maximum value of the number of transport blocks  $M_i$  on each transport channel are given from the UE capability class.
- The transmission time interval for TrCHs of PCH type is always 10 ms.
- Only one secondary CCPCH is used per CCTrCH, i.e.  $P=1$ .