

**Agenda Item:**

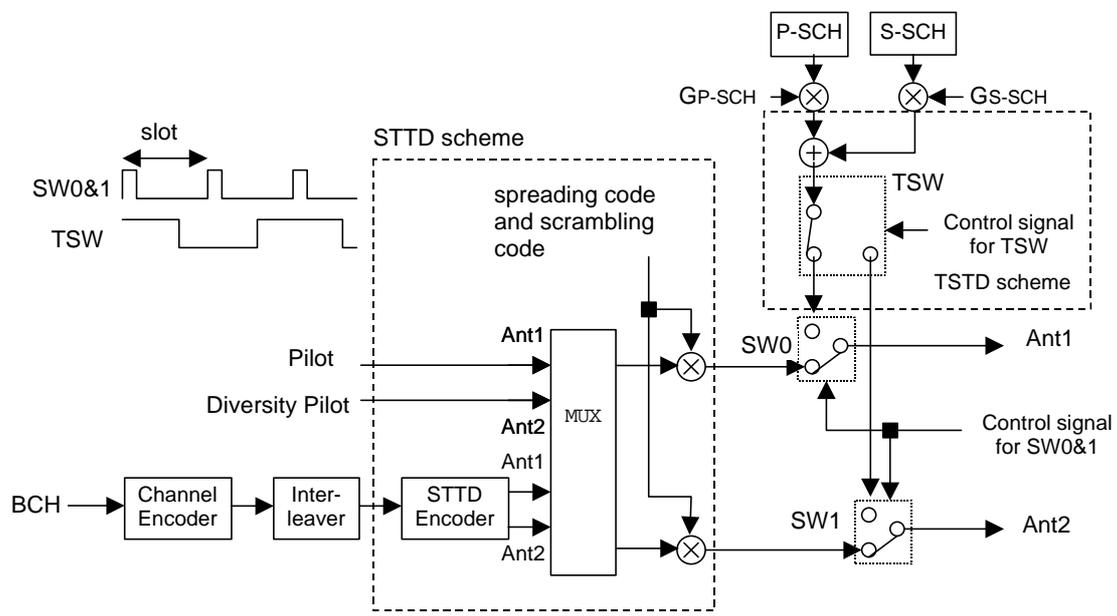
**Source:** Editor

**Title:** Text proposal for 25.211

**Document for:**

This text proposal includes updated figures for TX diversity and for shared channels. The text and figure of Appendix A is also updated.

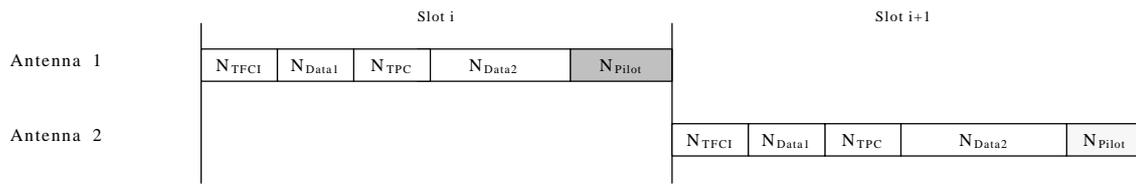
5.3.1.1.2 Time Switched Transmit Diversity for SCH (TSTD)



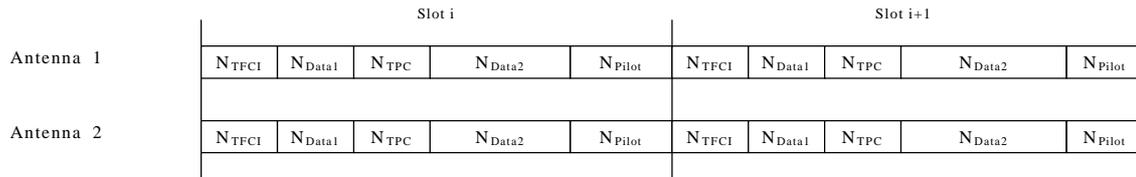
GP-SCH: Gain factor of Primary SCH  
 GS-SCH: Gain factor of Secondary SCH

**Figure 1: Multiplexing scheme of SCH (TSTD) and PCCPCH (STTD)**

### 5.3.2.2 Dedicated channel pilots with feedback mode transmit diversity



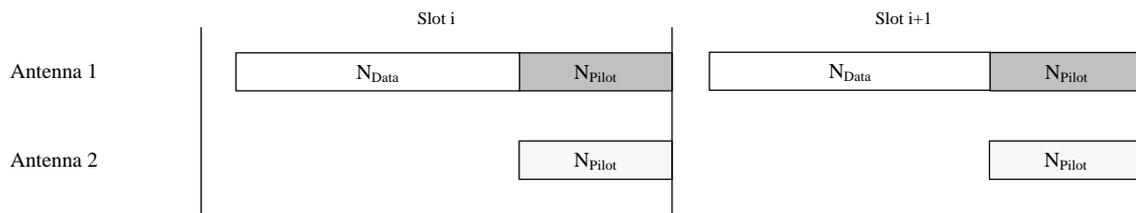
(a)



(b)

**Figure 2: Slot structures for downlink dedicated physical channel diversity transmission. Structure (a) may be used in conjunction with antenna verification. Structure (b) is used otherwise.**

### 5.3.3.1.2 Primary CCPCH structure with FB mode transmit diversity



**Figure 3: Slot structure of Primary CCPCH when diversity transmission is applied on dedicated channels.**

### 5.3.3.4 Physical Shared Channel Control Channel (PSCCCH)

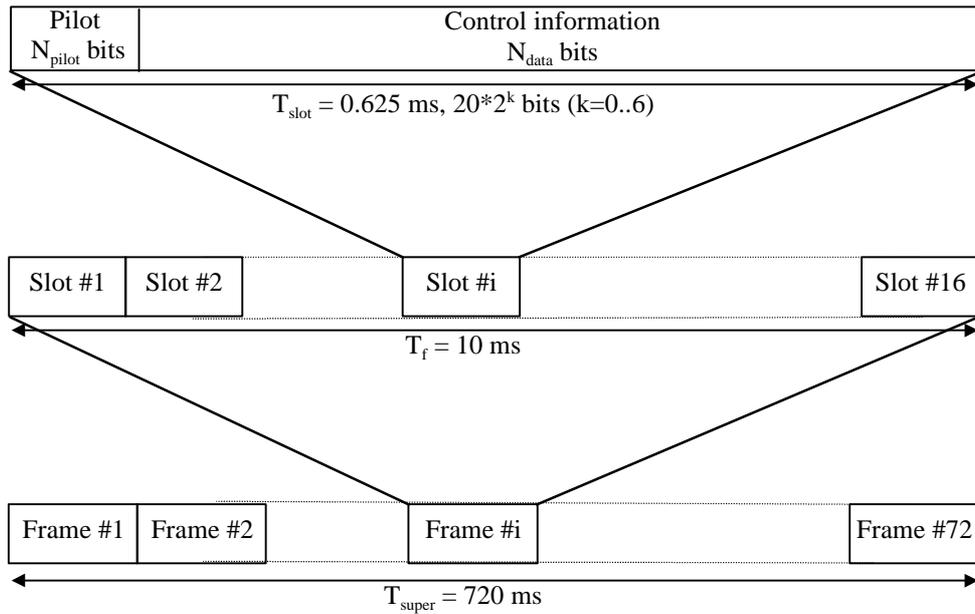


Figure 4: Frame structure of the Physical Shared Channel Control Channel (PSCCCH).

5.3.3.5.1 DSCH associated with a DCH

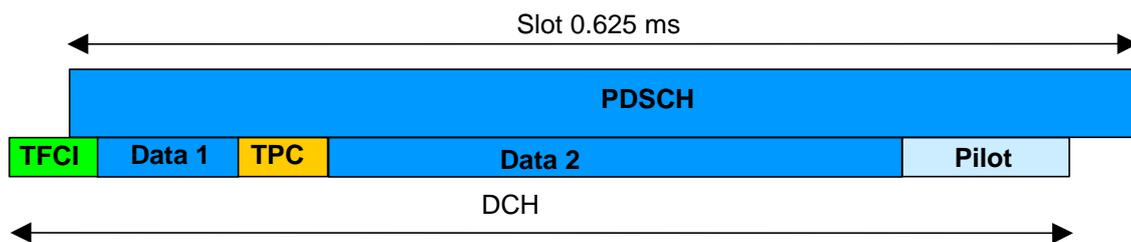


Figure 5: Frame structure for the DSCH when associated to a DCH.

5.3.3.5.2 DSCH associated with a DSCH control channel

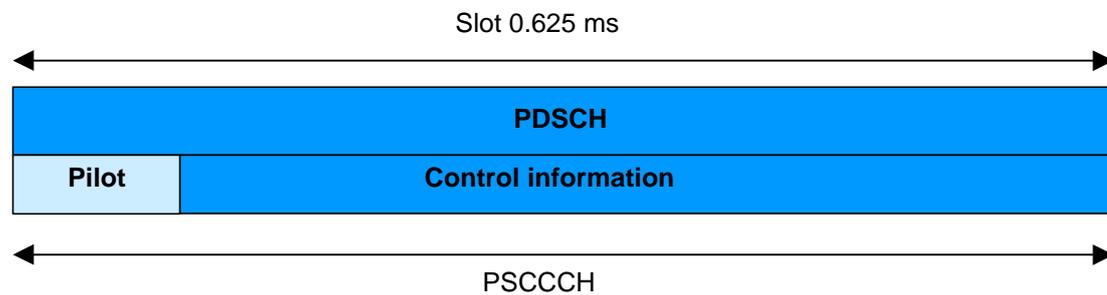


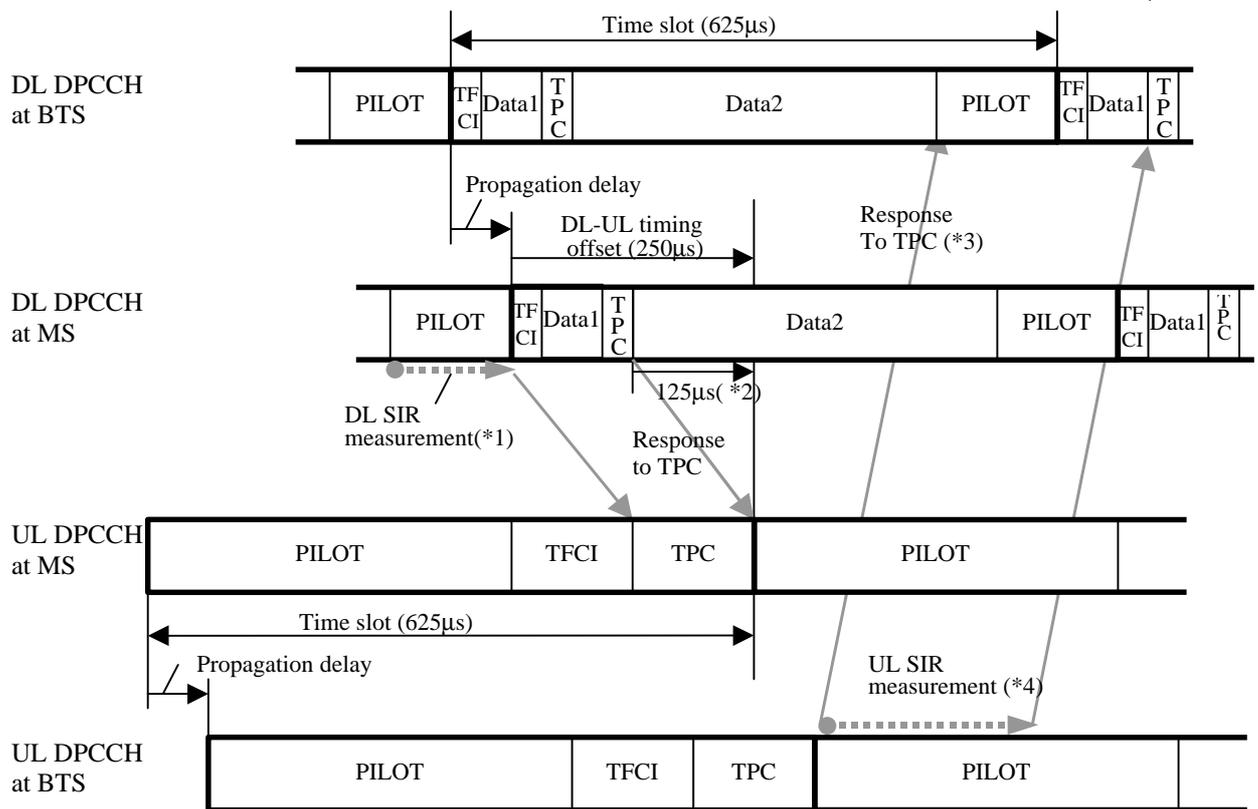
Figure 6: Frame structure for the DSCH when associated to a DSCH control channel.

# Appendix A: Power Control Timing

<Editors note: The Power control timing described in this appendix should be seen as an example on how the control bits have to be placed in order to permit a short TPC delay. It seems appropriate to move this part later.>

In order to maximize the BTS-UE distance within which one-slot control delay is achieved, the frame timing of a reverse-uplink DPCH is delayed by 250µs from that of the corresponding forward-downlink DPCH measured at the MS-UE antenna. Responding to a forward-downlink TPC command, MS-UE shall change its reverse-uplink DPCH output power at the beginning of the first reverse-uplink pilot field after the TPC command reception. Responding to a reverse-uplink TPC command, BTS shall change its DPCH output power at the beginning of the first of later forward-downlink pilot field after the TPC command reception. Note that the delay from the reverse-uplink TPC command reception to the power change timing is not specified for BTS. MS-UE shall decide and send TPC commands on the reverse-uplink based on the forward-downlink SIR measurement. The TPC command field on the reverse-uplink starts, when measured at the MS-UE antenna, 125µs after the end of forward-downlink pilot field. BTS shall decide and send TPC commands based on the reverse-uplink SIR measurement. However, the SIR measurement periods are not specified either for MS-UE or BTS.

Fig. A-1 illustrates an example of transmitter power control timings.



- \*1,4 The SIR measurement periods illustrated here are examples. Other ways of measurement are allowed to achieve accurate SIR estimation.
- \*2 Except the case of DL symbol rate=8ksps.
- \*3 If there is not enough time for BTS to respond to the TPC, the action can be delayed until the next slot.

Fig. A-1 Transmitter power control Timing