

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.211	CR	084
GSM (AA.BB) or 3G (AA.BBB) specification number ?		? CR number as allocated by MCC support team
Current Version: 3.4.0		
For submission to: RAN#10	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/> (for SMG use only)
<small>list expected approval meeting # here ?</small>	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Formv2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: Ericsson, NEC **Date:** 2000-10-06

Subject: Clarification of figure 28

Work item:

Category:	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category Shall be marked With an X)

Reason for change: Since there has been some misunderstanding of figure 28, the figure has been updated to make clear that e.g. "k:th S-CCPH" refers to the k:th S-CCPCH *physical channel* and not to the k:th radio frame of any S-CCPCH. The same is the case for the n:th DPCH.

Clauses affected: 7.1

Other specs Affected:	Other 3G core specifications <input type="checkbox"/> ? Other GSM core specifications <input type="checkbox"/> ? MS test specifications <input type="checkbox"/> ? BSS test specifications <input type="checkbox"/> ? O&M specifications <input type="checkbox"/> ?	List of CRs: List of CRs: List of CRs: List of CRs: List of CRs:
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Other comments:

7.1 General

The P-CCPCH, on which the cell SFN is transmitted, is used as timing reference for all the physical channels, directly for downlink and indirectly for uplink.

Figure 28 below describes the frame timing of the downlink physical channels. For the AICH the access slot timing is included. Transmission timing for uplink physical channels is given by the received timing of downlink physical channels, as described in the following subclauses.

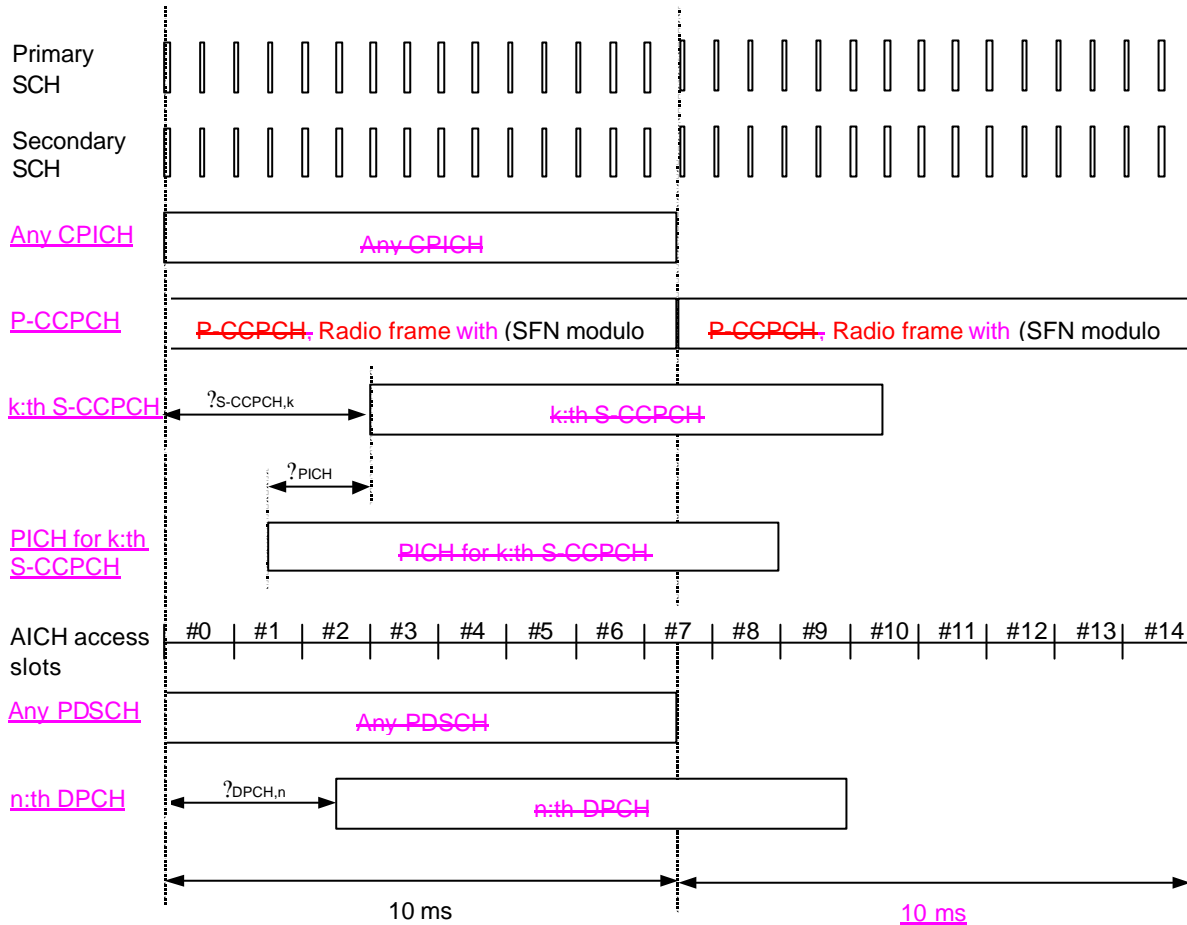


Figure 28: Radio frame timing and access slot timing of downlink physical channels

The following applies:

- ? SCH (primary and secondary), CPICH (primary and secondary), P-CCPCH, and PDSCH have identical frame timings.
- The S-CCPCH timing may be different for different S-CCPCHs, but the offset from the P-CCPCH frame timing is a multiple of 256 chips, i.e. $?_{S-CCPCH,k} = T_k \cdot 256 \text{ chip}$, $T_k \in \{0, 1, \dots, 149\}$.
- ? The PICH timing is $?_{PICH} = 7680 \text{ chips}$ prior to its corresponding S-CCPCH frame timing, i.e. the timing of the S-CCPCH carrying the PCH transport channel with the corresponding paging information, see also subclause 7.2.
- AICH access slots #0 starts the same time as P-CCPCH frames with $(\text{SFN modulo } 2) = 0$. The AICH/PRACH and AICH/PCPCH timing is described in subclauses 7.3 and 7.4 respectively.
- The relative timing of associated PDSCH and DPCH is described in subclause 7.5.

- ? The DPCH timing may be different for different DPCHs, but the offset from the P-CCPCH frame timing is a multiple of 256 chips, i.e. $T_{\text{DPCH},n} = T_n + 256 \text{ chip}$, $T_n \in \{0, 1, \dots, 149\}$. The DPCH (DPCCH/DPDCH) timing relation with uplink DPCCH/DPDCHs is described in subclause 7.6.