# TSG-RAN Meeting #7
# Madrid, Spain, 13 - 15 March 2000

***TSGRP#7(00)0076***

**Title:** **Agreed CRs to TS 25.411**

**Source:** **TSG-RAN WG3**

**Agenda item:** **6.4.3**

| Tdoc_Num | Specification | CR_Num | Revision_Num | CR_Subject | CR_Category | WG_Status | Cur_Ver_Num | New_Ver_Num |
|---|---|---|---|---|---|---|---|---|
| R3-000217 | 25.411 | 001 | | Precise wording in section 7.2 with respect to Fractional ATM. | D | agreed | 3.1.0 | 3.2.0 |

**3GPP TSG-RAN Meeting #7** ***Document R3-000217***

**Madrid, Spain, 13 - 15 March 2000**

# 3G CHANGE REQUEST

*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*

**25.411** **CR** **001** Current Version: 3.1.0

*3G specification number ↑* *↑ CR number as allocated by 3G support team*

For submission to TSG-RAN #7 for approval [X]
*list TSG meeting no. here ↑* for information [ ]
*(only one box should be marked with an X)*

*Form: 3G CR cover sheet, version 1.0* *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf*

**Proposed change affects:** USIM [ ] ME [ ] UTRAN [X] Core Network [ ]
*(at least one should be marked with an X)*

**Source:** TSG-RAN WG3 **Date:** Jan 25, 2000

**Subject:** Precise wording in section 7.2 with respect to Fractional ATM.

**3G Work item:**

**Category:** *(only one category shall be marked with an X)*

| | | |
|---|---|---|
| F | Correction | |
| A | Corresponds to a correction in a 2G specification | |
| B | Addition of feature | |
| C | Functional modification of feature | |
| D | Editorial modification | X |

**Reason for change:** Wording should be clear.

**Clauses affected:** Section 4.2. Changes are shown by revision marks.

**Other specs affected:**

| | | |
|---|---|---|
| Other 3G core specifications | [ ] | → List of CRs: |
| Other 2G core specifications | [ ] | → List of CRs: |
| MS test specifications | [ ] | → List of CRs: |
| BSS test specifications | [ ] | → List of CRs: |
| O&M specifications | [ ] | → List of CRs: |

**Other comments:**

# 2 References

[16] ATM Forum AF-PHY-0130.00 (10/99), ATM on Fractional E1/T1"

## 4.2 Layer 1 Description

Layer 1 reference configuration shall be according to ITU-T Recommendation I.432.1 [6].
The physical layer is divided into:

- Physical Media Dependent (PMD) sublayer
- Transmission Convergence (TC) sublayer defined according to ITU-T Recommendation I.432.1 [6].

The PMD shall comply with at least one of the following standards:

- ETSI STM-4 (622 Mb/s) interface according to I.432.2 [1] with optical S-1.1 interface according to G.957 [5].
- SONET STS-12c (622 Mb/s) interface according to ANSI, T1.105-1995 with optical multimode.
- SONET STS-3c (155 Mb/s) interface according to ANSI, T1.105-1995 with optical multimode.
- ETSI STM-1 (155 Mb/s) interface according to I.432.2 [1] with electrical interface (CMI) to G.703 [3].
- ETSI STM-1 (155 Mb/s) interface according to I.432.2 [1] with optical S-1.1 interface according to G.957 [5].
- ITU STS-1 (51 Mb/s) interface according to ANSI, T1.105-1995 with electrical interface.
- ITU STM-0 (51 Mb/s) interface according to ETSI/TTC with electrical interface.
- ITU STM-0 (51 Mb/s) interface according to ETSI/TTC with optical S-1.1 interface according G.957 [5].
- J2, 6.3 Mb/s interface according to Japanese standard JT-G.703 [3] and JT-G.704 [4] (75 Ohm).

NOTE: J2 requires that the ATM cells be mapped into the physical layer according to HEC based mapping in G.804.

- E2, 8Mb/s according to ETSI/ITU G.703 [3] and G.704 [4] (75 Ohm).
- E3, 34 Mb/s interface according to ETSI/ITU G.751 [13] (75 Ohm).
- T3, 45 Mb/s interface according to ANSI/ITU G.703 [3] and G.704 [4] (75 Ohm).
- E1, 2Mb/s interface balanced 120 Ohm symmetrical according to ETS 300 420, ITU-T G.704 [4] and TBR 013 (G.703) [3], and AF-PHY-0064.000 [11]
- E1, 2Mb/s according to ETSI/ITU G.703 [3] and G.704 [4] (75 Ohm), and AF-PHY-0064.000 [13].
- J1, 1.5 Mb/s interface according to Jt-431-a (100 Ohm).
- J1, 1.5 Mb/s interface according to JT-G.703 [3] and JT-G.704 [4] (110 Ohm).
- T1, 1.5 Mb/s interface according to AF-PHY-0016.000 [10] and ANSI/ITU G.703 [3] and G.704 [4] (100 Ohm).

Services provided to the upper layer shall be independent from the used underlying technology.
The support of intervening transport networks – like PDH or SDH terrestrial links, Point-to-point or Point-to-Multipoint radio links – shall not be prevented.

~~Fractional use of the physical medium to terminate a multiple of n time slots shall not be prevented, in order to allow coexistence of this interface with other interfaces on the same physical medium.~~
It shall be possible to use n 64 kbit/s time slots within the scope of "ATM on Fractional E1/T1" as specified in [16], and to allow the co-existance of this interface with other interfaces on the same physical medium

When using E1, T1, or J1, it shall be possible to use inverse multiplexing of ATM (IMA) [14] within suitable subsets of the physical ports on the respective Exchange Termination (ET).
The clock stability required shall be according to G.823 [7] or G.824 [8] or G.825 [9] whichever is applicable.
The clock extracted from the $I_u$ may be used as UTRAN reference clock.
Transmission quality control shall be provided according to ITU-T Recommendation G.826 [10].