**TSG RAN Meeting #25** **RP-040296**
**Palm Springs, USA, 07 - 09 September 2004**

**Title** **CRs (Rel-5 and Rel-6 Category A) to TS 25.411, TS 25.415 and TS 25.430**
**Source** **TSG RAN WG3**
**Agenda Item** **7.4.5**

| RAN3 Tdoc | Spec | curr. Vers. | new Vers. | CR | Rev | Cat | Rel | Title | Work item |
|---|---|---|---|---|---|---|---|---|---|
| R3-041088 | 25.411 | 5.0.0 | 5.1.0 | 14 | - | F | Rel-5 | Correction of optical interfaces | TEI5 |
| R3-041089 | 25.411 | 6.0.0 | 6.1.0 | 15 | - | A | Rel-6 | Correction of optical interfaces | TEI5 |
| R3-041106 | 25.415 | 5.3.0 | 5.4.0 | 119 | - | F | Rel-5 | Clarification of padding after odd number of IPTIs | TEI5 |
| R3-041107 | 25.415 | 6.0.0 | 6.1.0 | 120 | - | A | Rel-6 | Clarification of padding after odd number of IPTIs | TEI5 |
| R3-041146 | 25.430 | 5.3.0 | 5.4.0 | 54 | - | F | Rel-5 | Clarification on the Uplink Power Control for 1.28Mcps TDD | TEI5 |
| R3-041147 | 25.430 | 6.1.0 | 6.2.0 | 55 | - | A | Rel-6 | Clarification on the Uplink Power Control for 1.28Mcps TDD | TEI5 |

**3GPP TSG-RAN3 Meeting #43**
**Prague, Czech Republik, 16th-20th August 2004**

***Tdoc ⌘R3-041088***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.411** **CR** **14** ⌘ **rev** **-** ⌘ Current version: **5.0.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

***Proposed change affects:*** UICC apps⌘ ☐ ME ☐ Radio Access Network **X** Core Network **X**

| | | |
|---|---|---|
| ***Title:*** | ⌘ | Correction of optical interfaces |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI5 |
| ***Date:*** | ⌘ | 16/08/2004 |
| ***Category:*** | ⌘ | **F** |
| ***Release:*** | ⌘ | REL-5 |

*Use one of the following categories:*
***F*** *(correction)*
***A*** *(corresponds to a correction in an earlier release)*
***B*** *(addition of feature),*
***C*** *(functional modification of feature)*
***D*** *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

*Use one of the following releases:*

| | |
|---|---|
| *2* | *(GSM Phase 2)* |
| *R96* | *(Release 1996)* |
| *R97* | *(Release 1997)* |
| *R98* | *(Release 1998)* |
| *R99* | *(Release 1999)* |
| *Rel-4* | *(Release 4)* |
| *Rel-5* | *(Release 5)* |
| *Rel-6* | *(Release 6)* |

| | | |
|---|---|---|
| ***Reason for change:*** | ⌘ | The reference for the optical interface given in the specification when STM-4 is used is not applicable to the synchrnous digital hierarchy STM-4. The optical interface to be used with STM-4 is therefore currently undefined. |
| ***Summary of change:*** | ⌘ | The optical interface to be used with STM-4 is defined as the S-4.1 as defined in G.957.<br><br>Impact assessment towards the previous version of the specification (same release):<br><br>This CR has isolated impact towards the previous version of the specification (same release).<br><br>This CR has an impact under functional point of view.<br><br>The impact can be considered isolated because it only affects the physical interface. |
| ***Consequences if not approved:*** | ⌘ | The optical interface to be used when using STM-4 is not defined and therefore can lead to the failure of the interworking. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 4.2.1 |

| | | Y | N | | | |
|---|---|---|---|---|---|---|
| ***Other specs affected:*** | ⌘ | X | | Other core specifications | ⌘ | TS25.411v6.0.0 CR015 |
| | | | X | Test specifications | | |
| | | | X | O&M Specifications | | |
| ***Other comments:*** | ⌘ | | | | | |

**How to create CRs using this form:**

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 4.2 Layer 1 Description

### 4.2.1 Layer 1 Synchronised

When the Layer 1 Synchronised option is used (i.e. PDH/SDH/SONET links), the following requirements shall be met:

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~~4.1 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 [15] (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 [13]
- 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.

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 jitter and wander performance requirements on the interface shall be in accordance with either Reference [7], [8] or [9], whichever is applicable.

The synchronisation reference extracted from the $I_u$ may be used as UTRAN synchronisation reference. A general recommendation is to supply a traceable synchronisation reference according to reference [16].

Transmission quality control shall be provided according to ITU-T Recommendation G.826 [10].

**3GPP TSG-RAN3 Meeting #43**
**Prague, Czech Republik, 16th-20th August 2004**

***Tdoc ⌘R3-041089***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.411** **CR** **015** ⌘ **rev** **-** ⌘ Current version: **6.0.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

***Proposed change affects:*** UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

| | | |
|---|---|---|
| ***Title:*** | ⌘ | Correction of optical interfaces |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI5 |
| ***Date:*** | ⌘ | 16/08/2004 |
| ***Category:*** | ⌘ | **A** |
| ***Release:*** | ⌘ | REL-6 |

*Use one of the following categories:*
***F*** *(correction)*
***A*** *(corresponds to a correction in an earlier release)*
***B*** *(addition of feature),*
***C*** *(functional modification of feature)*
***D*** *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

*Use one of the following releases:*

| | |
|---|---|
| *2* | *(GSM Phase 2)* |
| *R96* | *(Release 1996)* |
| *R97* | *(Release 1997)* |
| *R98* | *(Release 1998)* |
| *R99* | *(Release 1999)* |
| *Rel-4* | *(Release 4)* |
| *Rel-5* | *(Release 5)* |
| *Rel-6* | *(Release 6)* |

| | | |
|---|---|---|
| ***Reason for change:*** | ⌘ | The reference for the optical interface given in the specification when STM-4 is used is not applicable to the synchrnous digital hierarchy STM-4. The optical interface to be used with STM-4 is therefore currently undefined. |
| ***Summary of change:*** | ⌘ | The optical interface to be used with STM-4 is defined as the S-4.1 as defined in G.957.<br><br>Impact assessment towards the previous version of the specification (same release):<br><br>This CR has isolated impact towards the previous version of the specification (same release).<br><br>This CR has an impact under functional point of view.<br><br>The impact can be considered isolated because it only affects the physical interface. |
| ***Consequences if not approved:*** | ⌘ | The optical interface to be used when using STM-4 is not defined and therefore can lead to the failure of the interworking. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 4.2.1 |

| | | Y | N | | | |
|---|---|---|---|---|---|---|
| ***Other specs affected:*** | ⌘ | X | | Other core specifications | ⌘ | TS25.411v5.0.0 CR014 |
| | | | X | Test specifications | | |
| | | | X | O&M Specifications | | |
| ***Other comments:*** | ⌘ | | | | | |

**How to create CRs using this form:**

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 4.2 Layer 1 Description

### 4.2.1 Layer 1 Synchronised

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- 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 [15] (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 [13]
- 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).
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Services provided to the upper layer shall be independent from the used underlying technology.

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The synchronisation reference extracted from the $I_u$ may be used as UTRAN synchronisation reference. A general recommendation is to supply a traceable synchronisation reference according to reference [16].

Transmission quality control shall be provided according to ITU-T Recommendation G.826 [10].

**3GPP TSG-RAN WG3 Meeting #43**
**Prague, Czech Republic, 16th - 20th August 2004**

***Tdoc ⌘R3-041106***

*CR-Form-v7.1*

# CHANGE REQUEST

⌘ **25.415** **CR** **119** ⌘ **rev** **-** ⌘ Current version: **5.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

***Proposed change affects:*** UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

| | | |
|---|---|---|
| ***Title:*** | ⌘ | Clarification of padding after odd number of IPTIs |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI5 |
| ***Date:*** | ⌘ | 09/08/2004 |
| ***Category:*** | ⌘ | **F** |
| ***Release:*** | ⌘ | Rel-5 |

*Use one of the following categories:*
***F*** *(correction)*
***A*** *(corresponds to a correction in an earlier release)*
***B*** *(addition of feature),*
***C*** *(functional modification of feature)*
***D*** *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

*Use one of the following releases:*

| | |
|---|---|
| *Ph2* | *(GSM Phase 2)* |
| *R96* | *(Release 1996)* |
| *R97* | *(Release 1997)* |
| *R98* | *(Release 1998)* |
| *R99* | *(Release 1999)* |
| *Rel-4* | *(Release 4)* |
| *Rel-5* | *(Release 5)* |
| *Rel-6* | *(Release 6)* |
| *Rel-7* | *(Release 7)* |

***Reason for change:*** ⌘ It is not clearly stated if padding will be added after an odd number of IPTIs in the INITIALISATION control frame. Figure 24 however indicates that "Iu UP Mode Versions supported (bitmap)" field is octet aligned and the description of the field in section 6.6.3.25 clearly states that this is the case.

**"Value range:**

> Each bit, in the two octet field, indicates a Iu UP Protocol version: (First octet, bit 7) indicates version 16, (Second octet, bit 0) indicates version 1."

In order to ensure that the "Iu UP Mode Versions supported (bitmap)" field is octet aligned also when an odd number of IPTIs are to be signalled then 4 padding bits needs to be added after the last IPTI value for this case.

***Summary of change:*** ⌘ Clarify figure 24 to explicitly mention the inclusion of 4 padding bits in case of an odd number of IPTIs.

Impact assessment towards the previous version of the specification (same release):

This CR has isolated impact on the previous version of the specification (same release).

This CR has an impact under protocol point of view.

The impact can be considered as isolated as it affects only establishment of NT CS data RABs with an odd number of IPTIs.

| | | |
|---|---|---|
| ***Consequences if not approved:*** | ⌘ | Potential IOT issues for NT CS Data RABs using an odd number of IPTIs. |

| | | | | | |
|---|---|---|---|---|---|
| ***Clauses affected:*** | ⌘ | 6.6.2.3.4.1 | | | |
| ***Other specs affected:*** | ⌘ | Y: X<br>Y:<br>Y: | N:<br>N: X<br>N: X | Other core specifications<br>Test specifications<br>O&M Specifications | ⌘ 25.415 CR120 Rel-6 |
| ***Other comments:*** | ⌘ | | | | |

**How to create CRs using this form:**

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.6.2.3.4.1 Initialisation

Figure 24 specifies how the INITIALISATION control frame is coded.

| Bits | | | | | | | | Number of Octets | |
|---|---|---|---|---|---|---|---|---|---|
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |
| PDU Type (=14) | | | | Ack/Nack (=0. I.e. Procedure) | | PDU Type 14 Frame Number | | 1 | Frame Control Part |
| Iu UP Mode version | | | | Procedure Indicator (=0) | | | | 1 | |
| Header CRC | | | | | | Payload CRC | | 2 | Frame Checksum part |
| Payload CRC | | | | | | | | | |
| Spare | | | | TI | Number of subflows per RFCI (N) | | Chain Ind | 1 | Frame payload part |
| LRI | LI | 1st RFCI | | | | | | 1 | |
| Length of subflow 1 | | | | | | | | 1 or 2 (dep. LI) | |
| Length of subflow 2 to N | | | | | | | | (N-1)x(1 or 2) | |
| LRI | LI | 2nd RFCI | | | | | | 1 | |
| Length of subflow 1 | | | | | | | | 1 or 2 (dep. LI) | |
| Length of subflow 2 to N | | | | | | | | (N-1)x(1 or 2) | |
| … | | | | | | | | | |
| IPTI of 1st RFCI | | | | …~~IPTI of 2nd RFCI~~ | | | | 0 or M/2 (M: Number of RFCIs in frame). Ended by 4 padding bits if M is odd. | |
| ~~IPTI of 3rd RFCI~~… | | | | …IPTI of Mth RFCI or Padding | | | | | |
| Iu UP Mode Versions supported (bitmap) | | | | | | | | 2 | |
| Data PDU type | | | | Spare | | | | 1 | |
| Spare extension | | | | | | | | 0-32 | |

**Figure 24: Iu UP PDU Type 14 used for Initialisation**

**3GPP TSG-RAN WG3 Meeting #43**
**Prague, Czech Republic, 16th - 20th August 2004**

***Tdoc ⌘R3-041107***

*CR-Form-v7.1*

# CHANGE REQUEST

⌘ **25.415** **CR** **120** ⌘ **rev** **-** ⌘ Current version: **6.0.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

***Proposed change affects:*** UICC apps⌘ ☐ ME ☐ Radio Access Network **X** Core Network **X**

| | | |
|---|---|---|
| ***Title:*** | ⌘ | Clarification of padding after odd number of IPTIs |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI5 |
| ***Date:*** | ⌘ | 09/08/2004 |
| ***Category:*** | ⌘ | **A** |
| ***Release:*** | ⌘ | Rel-6 |

*Use one of the following categories:*
***F*** *(correction)*
***A*** *(corresponds to a correction in an earlier release)*
***B*** *(addition of feature),*
***C*** *(functional modification of feature)*
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|---|---|
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| *R99* | *(Release 1999)* |
| *Rel-4* | *(Release 4)* |
| *Rel-5* | *(Release 5)* |
| *Rel-6* | *(Release 6)* |
| *Rel-7* | *(Release 7)* |

***Reason for change:*** ⌘ It is not clearly stated if padding will be added after an odd number of IPTIs in the INITIALISATION control frame. Figure 24 however indicates that "Iu UP Mode Versions supported (bitmap)" field is octet aligned and the description of the field in section 6.6.3.25 clearly states that this is the case.

**"Value range:**

> Each bit, in the two octet field, indicates a Iu UP Protocol version: (First octet, bit 7) indicates version 16, (Second octet, bit 0) indicates version 1."

In order to ensure that the "Iu UP Mode Versions supported (bitmap)" field is octet aligned also when an odd number of IPTIs are to be signalled then 4 padding bits needs to be added after the last IPTI value for this case.

***Summary of change:*** ⌘ Clarify figure 24 to explicitly mention the inclusion of 4 padding bits in case of an odd number of IPTIs.

Impact assessment towards the previous version of the specification (same release):

This CR has isolated impact on the previous version of the specification (same release).

This CR has an impact under protocol point of view.

The impact can be considered as isolated as it affects only establishment of NT CS data RABs with an odd number of IPTIs.

| | | |
|---|---|---|
| ***Consequences if not approved:*** | ⌘ | Potential IOT issues for NT CS Data RABs using an odd number of IPTIs. |

| | | | | | |
|---|---|---|---|---|---|
| ***Clauses affected:*** | ⌘ | 6.6.2.3.4.1 | | | |
| ***Other specs affected:*** | ⌘ | Y: X / N: | Other core specifications | ⌘ | 25.415 CR119 Rel-5 |
| | | Y: / N: X | Test specifications | | |
| | | Y: / N: X | O&M Specifications | | |
| ***Other comments:*** | ⌘ | | | | |

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.6.2.3.4.1 Initialisation

Figure 24 specifies how the INITIALISATION control frame is coded.

| Bits | | | | | | | | Number of Octets | |
|---|---|---|---|---|---|---|---|---|---|
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |
| PDU Type (=14) | | | | Ack/Nack (=0. I.e. Procedure) | | PDU Type 14 Frame Number | | 1 | Frame Control Part |
| Iu UP Mode version | | | | Procedure Indicator (=0) | | | | 1 | |
| Header CRC | | | | | | Payload CRC | | 2 | Frame Checksum part |
| Payload CRC | | | | | | | | | |
| Spare | | | | TI | Number of subflows per RFCI (N) | | Chain Ind | 1 | Frame payload part |
| LRI | LI | 1st RFCI | | | | | | 1 | |
| Length of subflow 1 | | | | | | | | 1 or 2 (dep. LI) | |
| Length of subflow 2 to N | | | | | | | | (N-1)x(1 or 2) | |
| LRI | LI | 2nd RFCI | | | | | | 1 | |
| Length of subflow 1 | | | | | | | | 1 or 2 (dep. LI) | |
| Length of subflow 2 to N | | | | | | | | (N-1)x(1 or 2) | |
| … | | | | | | | | | |
| IPTI of 1st RFCI | | | | ~~IPTI of 2nd RFCI~~… | | | | 0 or M/2 (M: Number of RFCIs in frame). Ended by 4 padding bits if M is odd. | |
| ~~IPTI of 3rd RFCI~~… | | | | IPTI of Mth RFCI or Padding~~…~~ | | | | | |
| Iu UP Mode Versions supported (bitmap) | | | | | | | | 2 | |
| Data PDU type | | | | Spare | | | | 1 | |
| Spare extension | | | | | | | | 0-32 | |

**Figure 24: Iu UP PDU Type 14 used for Initialisation**

**3GPP TSG-RAN WG3 Meeting #43**
**Prague, Czech Republic, August 16th – 20th, 2004**

***Tdoc ⌘ R3-041146***

*CR-Form-v7.1*

# CHANGE REQUEST

⌘ **25.430** **CR** **54** ⌘ **rev** **-** ⌘ Current version: **5.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

***Proposed change affects:*** UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☐

| | | |
|---|---|---|
| ***Title:*** | ⌘ | Clarification on the Uplink Power Control for 1.28Mcps TDD |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI5 |
| ***Date:*** | ⌘ | 10/08/2004 |
| ***Category:*** | ⌘ | **F** |
| ***Release:*** | ⌘ | Rel-5 |

*Use one of the following categories:*
***F*** *(correction)*
***A*** *(corresponds to a correction in an earlier release)*
***B*** *(addition of feature),*
***C*** *(functional modification of feature)*
***D*** *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

*Use one of the following releases:*
*Ph2 (GSM Phase 2)*
*R96 (Release 1996)*
*R97 (Release 1997)*
*R98 (Release 1998)*
*R99 (Release 1999)*
*Rel-4 (Release 4)*
*Rel-5 (Release 5)*
*Rel-6 (Release 6)*
*Rel-7 (Release 7)*

| | | |
|---|---|---|
| ***Reason for change:*** | ⌘ | For 1.28Mcps TDD, the inner loop power control is located in Node B, not in the UE. |
| ***Summary of change:*** | ⌘ | Indicate that the inner loop power control of 1.28Mcps TDD is located in Node B.<br><br>Impact Analysis:<br>Impact assessment towards the previous version of the specification (same release):<br>The impact can be considered isolated because the change affects only the inner loop power control for 1.28Mcps TDD. |
| ***Consequences if not approved:*** | ⌘ | If this document is not approved, there would cause some confusion of the inner loop power control for 1.28Mcps TDD. |

| | | | | | |
|---|---|---|---|---|---|
| ***Clauses affected:*** | ⌘ | 5.2.6.4 | | | |
| ***Other specs affected:*** | ⌘ | **Y** / **N** | Other core specifications | ⌘ | TS25.430 CR55 Rel-6 |
| | | **X** / | Other core specifications | | |
| | | / **X** | Test specifications | | |
| | | / **X** | O&M Specifications | | |
| ***Other comments:*** | ⌘ | | | | |

**How to create CRs using this form:**
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

### 5.2.6.4 UpLink Power Control

This function controls the level of the transmitted power in order to minimise interference and keep the quality of the connections. The function uplink Outer Loop Power Control located in the SRNC sets the target quality for the uplink Inner Loop Power Control function. In FDD and 1.28Mcps TDD, Inner Loop Power Control Function is located in Node B, while in 3.84Mcps TDD it is located in the UE.

**3GPP TSG-RAN WG3 Meeting #43**
**Prague, Czech Republic, August 16th – 20th, 2004**

***Tdoc ⌘ R3-041147***

*CR-Form-v7.1*

# CHANGE REQUEST

⌘ **25.430** **CR** **55** ⌘ **rev** **-** ⌘ Current version: **6.1.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

***Proposed change affects:*** UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☐

| | | |
|---|---|---|
| ***Title:*** | ⌘ | Clarification on the Uplink Power Control for 1.28Mcps TDD |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI5 |
| ***Date:*** | ⌘ | 10/08/2004 |
| ***Category:*** | ⌘ | **A** |
| ***Release:*** | ⌘ | Rel-6 |

*Use one of the following categories:*
***F*** *(correction)*
***A*** *(corresponds to a correction in an earlier release)*
***B*** *(addition of feature),*
***C*** *(functional modification of feature)*
***D*** *(editorial modification)*
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*Use one of the following releases:*
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*R98 (Release 1998)*
*R99 (Release 1999)*
*Rel-4 (Release 4)*
*Rel-5 (Release 5)*
*Rel-6 (Release 6)*
*Rel-7 (Release 7)*

| | | |
|---|---|---|
| ***Reason for change:*** | ⌘ | For 1.28Mcps TDD, the inner loop power control is located in Node B, not in the UE. |
| ***Summary of change:*** | ⌘ | Indicate that the inner loop power control of 1.28Mcps TDD is located in Node B.<br><br>Impact Analysis:<br>Impact assessment towards the previous version of the specification (same release):<br>The impact can be considered isolated because the change affects only the inner loop power control for 1.28Mcps TDD. |
| ***Consequences if not approved:*** | ⌘ | If this document is not approved, there would cause some confusion of the inner loop power control for 1.28Mcps TDD. |

| | | | | | |
|---|---|---|---|---|---|
| ***Clauses affected:*** | ⌘ | 5.2.6.4 | | | |
| ***Other specs affected:*** | ⌘ | **Y** / **N** | Other core specifications | ⌘ | TS25.430 CR54 Rel-5 |
| | | **X** / | Other core specifications | | |
| | | / **X** | Test specifications | | |
| | | / **X** | O&M Specifications | | |
| ***Other comments:*** | ⌘ | | | | |

**How to create CRs using this form:**
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Below is a brief summary:

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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