**TSG RAN Meeting #21** **RP-030443**
**Frankfurt, Germany, 16 - 19 September 2003**

**Title** **CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and TS 25.433 on Corrections to Tx Diversity**
**Source** **TSG RAN WG3**
**Agenda Item** **7.4.6**

| RAN3 Tdoc | Spec | curr. Vers. | new Vers. | REL | CR | Rev | Cat | Title | Work item |
|---|---|---|---|---|---|---|---|---|---|
| R3-030993 | 25.423 | 3.13.0 | 3.14.0 | R99 | 850 | - | F | Corrections to Tx Diversity | TEI |
| R3-030994 | 25.423 | 4.9.0 | 4.10.0 | REL-4 | 851 | - | A | Corrections to Tx Diversity | TEI |
| R3-030995 | 25.423 | 5.6.0 | 5.7.0 | REL-5 | 852 | - | A | Corrections to Tx Diversity | TEI |
| R3-030996 | 25.433 | 3.13.0 | 3.14.0 | R99 | 879 | - | F | Corrections to Tx Diversity | TEI |
| R3-030997 | 25.433 | 4.9.0 | 4.10.0 | REL-4 | 880 | - | A | Corrections to Tx Diversity | TEI |
| R3-030998 | 25.433 | 5.5.0 | 5.6.0 | REL-5 | 881 | - | A | Corrections to Tx Diversity | TEI |

**3GPP TSG-RAN3 Meeting #37**
**Budapest, Hungary, 25th – 29th August 2003**

***Tdoc ⌘R3-030993***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.423** **CR** **850** ⌘ **rev** **-** ⌘ Current version: **3.13.0** ⌘

*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:*** | ⌘ | Corrections to Tx Diversity |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI |
| ***Date:*** | ⌘ | 25/08/2003 |
| ***Category:*** | ⌘ | **F** |
| ***Release:*** | ⌘ | R99 |

*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 current power definitons are not considering the case, when a Node B is in Tx diversity mode. |
| ***Summary of change:*** | ⌘ | R0: It is clarified that in case of TX diversity, the power settings refer to the sum for main and diversity branch.<br><br>Impact Analysis:<br>Impact Assessment towards the previous version of the specification (same release):<br>This CR has *impact* with the previous version of the specification (same release).<br><br>This CR has impact under functional point of view. Namely the function of power setting in case of TX diversity can be affected, if an implementation was based on a "per branch power" instead of the "sum of powers".<br><br>This CR has no impact under protocol point of view. |
| ***Consequences if not approved:*** | ⌘ | The interpretation of power settings in case of TX diversity is ambiguous. The RNC is not in full control of the cell set up. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 9.2.1.21A, 9.2.1.43, 9.2.1.44 |

| ***Other specs*** | ⌘ | Y | N | Other core specifications | ⌘ | CR 851 on TS25.423 v 4.9.0<br>CR 852 on TS25.423 v 5.6.0<br>CR 879 on TS25.433 v 3.13.0<br>CR 880 on TS25.433 v 4.9.0<br>CR 881 on TS25.433 v 5.5.0 |
|---|---|---|---|---|---|---|
| | | X | | | | |

| | | |
|---|---|---|
| ***affected:*** | X | Test specifications |
| | X | O&M Specifications |
| ***Other comments:*** ⌘ | | |

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

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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.

### 9.2.1.21A DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell [FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols]. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DL Power | | | INTEGER (-350..150) | Value = DL Power /10<br>Unit dB<br>Range –35.0 .. +15.0<br>Step 0.1dB |

/*Partly omitted*/

### 9.2.1.43 PCCPCH Power

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the PCCPCH Power is the linear sum of the power that is used for transmitting the PCCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PCCPCH Power | | | INTEGER (-150..400,...) | Unit dBm<br>Range –15.0 to 40.0 dBm,<br>Step size 0.1 dB.<br>-15.0 shall indicate P≤ -15dBm<br>+40.0 shall indicate P≥ 40dBm. |

/*Partly omitted*/

### 9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the Primary CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH Power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Primary CPICH Power | | | INTEGER (-100..500) | Value = Primary CPICH Power/10<br>Unit dBm<br>Range –10.0..+50.0<br>Step 0.1 dB |

/*Partly omitted*/

**3GPP TSG-RAN3 Meeting #37**
**Budapest, Hungary, 25th – 29th August 2003**

***Tdoc ⌘R3-030994***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.423** **CR** **851** ⌘ **rev** **-** ⌘ Current version: **4.9.0** ⌘

*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:*** | ⌘ | Corrections to Tx Diversity |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI |
| ***Date:*** | ⌘ | 25/08/2003 |
| ***Category:*** | ⌘ | **A** |
| ***Release:*** | ⌘ | Rel-4 |

*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 current power definitons are not considering the case, when a Node B is in Tx diversity mode. |
| ***Summary of change:*** | ⌘ | R0: It is clarified that in case of TX diversity, the power settings refer to the sum for main and diversity branch.<br><br>Impact Analysis:<br>Impact Assessment towards the previous version of the specification (same release):<br>This CR has *impact* with the previous version of the specification (same release).<br><br>This CR has impact under functional point of view. Namely the function of power setting in case of TX diversity can be affected, if an implementation was based on a “per branch power” instead of the “sum of powers”.<br><br>This CR has no impact under protocol point of view. |
| ***Consequences if not approved:*** | ⌘ | The interpretation of power settings in case of TX diversity is ambiguous. The RNC is not in full control of the cell set up. |

| | | | | | |
|---|---|---|---|---|---|
| ***Clauses affected:*** | ⌘ | 9.2.1.21A, 9.2.1.43, 9.2.1.44 | | | |
| ***Other specs*** | ⌘ | **Y** ☒ **N** ☐ | Other core specifications | ⌘ | TS 25.423 R99 CR850<br>TS 25.423 REL-5 CR852<br>TS 25.433 R99 CR879<br>TS 25.433 REL-4 CR880<br>TS 25.433 REL-5 CR881 |

| | | |
|---|---|---|
| ***affected:*** | X | Test specifications |
| | 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.

/*Partly omitted*/

### 9.2.1.21A DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell [FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols]. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DL Power | | | INTEGER (-350..150) | Value = DL Power /10<br>Unit dB<br>Range –35.0 .. +15.0<br>Step 0.1dB |

/*Partly omitted*/

### 9.2.1.43 PCCPCH Power

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the PCCPCH Power is the linear sum of the power that is used for transmitting the PCCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PCCPCH Power | | | INTEGER (-150..400,...) | Unit dBm<br>Range –15.0 to 40.0 dBm,<br>Step size 0.1 dB.<br>-15.0 shall indicate P≤ -15dBm<br>+40.0 shall indicate P≥ 40dBm. |

### 9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the Primary CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH Power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Primary CPICH Power | | | INTEGER (-100..500) | Value = Primary CPICH Power/10<br>Unit dBm<br>Range –10.0..+50.0<br>Step 0.1 dB |

/*Partly omitted*/

**3GPP TSG-RAN3 Meeting #37**
**Budapest, Hungary, 25th – 29th August 2003**

***Tdoc ⌘R3-030995***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.423** **CR** **852** ⌘ **rev** **-** ⌘ Current version: **5.6.0** ⌘

*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:*** | ⌘ | Corrections to Tx Diversity |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI |
| ***Date:*** | ⌘ | 25/08/2003 |
| ***Category:*** | ⌘ | **A** |
| ***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 current power definitons are not considering the case, when a Node B is in Tx diversity mode. |
| ***Summary of change:*** | ⌘ | R0: It is clarified that in case of TX diversity, the power settings refer to the sum for main and diversity branch.<br><br>Impact Analysis:<br>Impact Assessment towards the previous version of the specification (same release):<br>This CR has *impact* with the previous version of the specification (same release).<br><br>This CR has impact under functional point of view. Namely the function of power setting in case of TX diversity can be affected, if an implementation was based on a “per branch power” instead of the “sum of powers”.<br><br>This CR has no impact under protocol point of view. |
| ***Consequences if not approved:*** | ⌘ | The interpretation of power settings in case of TX diversity is ambiguous. The RNC is not in full control of the cell set up. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 9.2.1.21A, 9.2.1.43, 9.2.1.44 |

| ***Other specs*** | ⌘ | Y | N | Other core specifications | ⌘ | TS 25.423 R99 CR850<br>TS 25.423 REL-4 CR851<br>TS 25.433 R99 CR879<br>TS 25.433 REL-4 CR880<br>TS 25.433 REL-5 CR881 |
|---|---|---|---|---|---|---|
| | | X | | | | |

| | | |
|---|---|---|
| ***affected:*** | X | Test specifications |
| | 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.

### 9.2.1.21A DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell [FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols]. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DL Power | | | INTEGER (-350..150) | Value = DL Power /10<br>Unit dB<br>Range –35.0 .. +15.0<br>Step 0.1dB |

/*Partly omitted*/

### 9.2.1.43 PCCPCH Power

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the PCCPCH Power is the linear sum of the power that is used for transmitting the PCCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PCCPCH Power | | | NTEGER (-150..400,...) | Unit dBmRange –15.0 to 40.0 dBm,<br>Step size 0.1 dB.<br>-15.0 shall indicate P≤ -15dBm<br>+40.0 shall indicate P≥ 40dBm. |

### 9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the Primary CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH Power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Primary CPICH Power | | | INTEGER (-100..500) | Value = Primary CPICH Power/10<br>Unit dBm<br>Range –10.0..+50.0<br>Step 0.1 dB |

/*Partly omitted*/

**3GPP TSG-RAN3 Meeting #37**
**Budapest, Hungary, 25th – 29th August 2003**

***Tdoc ⌘R3-030996***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.433** **CR** **879** ⌘ **rev** **-** ⌘ Current version: **3.13.0** ⌘

*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:*** | ⌘ | Corrections to Tx Diversity |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI |
| ***Date:*** | ⌘ | 25/08/2003 |
| ***Category:*** | ⌘ | **F** |
| ***Release:*** | ⌘ | R99 |

*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 current power definitions are not considering the case, when a Node B is in Tx diversity mode. |
| ***Summary of change:*** | ⌘ | R0: It is clarified that in case of Tx Diversity, the power settings refer to the sum for main and diversity branch.<br><br>Impact Analysis:<br>Impact Assessment towards the previous version of the specification (same release):<br>This CR has *impact* with the previous version of the specification (same release).<br><br>This CR has impact under functional point of view. Namely the function of power setting in case of TX diversity can be affected, if an implementation was based on a "per branch power" instead of the "sum of powers".<br><br>This CR has no impact under protocol point of view. |
| ***Consequences if not approved:*** | ⌘ | The interpretation of power settings in case of TX diversity is ambiguous. The RNC is not in full control of the cell set up. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 9.2.1.21, 9.2.1.39. 9.2.1.40, 9.2.1.46A, 9.2.1.49A, 9.2.2.D, 9.2.2.33, 9.2.3.9 |

| ***Other specs*** | ⌘ | Y | N | Other core specifications | ⌘ | CR 850 on TS25.433 v 3.13.0<br>CR 851 on TS25.423 v 4.9.0<br>CR 852 on TS25.423 v 5.6.0<br>CR 880 on TS25.433 v 4.9.0<br>CR 881 on TS25.433 v 5.5.0 |
|---|---|---|---|---|---|---|
| | | X | | | | |

| | | |
|---|---|---|
| ***affected:*** | X | Test specifications |
| | X | O&M Specifications |
| ***Other comments:*** ⌘ | | |

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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.

### 9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DL Power | | | INTEGER (-350..150) | Value = DL Power /10<br>Unit: dB<br>Range: -35.0 .. +15.0 dB<br>Step: 0.1dB |

/*Partly omitted*/

### 9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the maximum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Maximum DL Power Capability | | | INTEGER (0..500) | Unit: dBm<br>Range: 0..50 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.40 Maximum Transmission Power

The Maximum Transmission Power is the maximum value for the linear sum of the power ~~for~~of all downlink physical channels ~~added together~~, that is allowed to be used ~~simultaneously~~ in a cell. If Transmit Diversity is applied to one downlink physical channel, the power to be considered for this downlink physical channel is the linear sum of the power used for this downlink physical channel on all branches. The reference point is the antenna connector.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Maximum Transmission Power | | | INTEGER (0..500) | Unit: dBm<br>Range: 0..50<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Minimum DL Power Capability | | | INTEGER (0..800) | Unit: dBm<br>Range: -30 .. +50 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.49A PICH Power

The *PICH Power* IE indicates a power level relative to the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell. If Transmit Diversity is applied to the PICH, the *PICH Power* IE indicates the power offset between the linear sum of the power for the PICH on all branches and the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PICH Power | | | INTEGER (-10..+5) | Unit: dB<br>Range: -10 .. +5 dB<br>Step: 1dB |

/*Partly omitted*/

### 9.2.2.D AICH Power

The *AICH Power* IE indicates a power level (measured as the power per transmitted acquisition indicator when several AIs are transmitted in parallel) relative to the primary CPICH power configured in a cell. If Transmit Diversity is applied to the AICH, the *AICH Power* IE indicates the power offset between the linear sum of the power for the AICH on all branches and the Primary CPICH power configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| AICH Power | | | INTEGER (-22..+5) | Unit: dB<br>Range: -22 .. +5 dB<br>Step: 1 dB |

/*Partly omitted*/

### 9.2.2.33 Primary CPICH Power

The Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Primary CPICH Power | | | INTEGER (-100..500) | Value = Primary CPICH Power/10<br>Unit: dBm<br>Range: -10.0..+50.0 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.9 PCCPCH Power

The Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the Primary CCPCH power is the linear sum of the power that is used for transmitting the Primary CCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PCCPCH Power | | | INTEGER (-15..+40,...) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |

**3GPP TSG-RAN3 Meeting #37**
**Budapest, Hungary, 25th – 29th August 2003**

***Tdoc ⌘R3-030997***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.433** **CR** **880** ⌘ **rev** **-** ⌘ Current version: **4.9.0** ⌘

*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:*** | ⌘ | Corrections to Tx Diversity |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI |
| ***Date:*** | ⌘ | 25/08/2003 |
| ***Category:*** | ⌘ | **A** |
| ***Release:*** | ⌘ | Rel-4 |

*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 current power definitions are not considering the case, when a Node B is in Tx diversity mode. |
| ***Summary of change:*** | ⌘ | R0: It is clarified that in case of Tx Diversity, the power settings refer to the sum for main and diversity branch.<br><br>Impact Analysis:<br>Impact Assessment towards the previous version of the specification (same release):<br>This CR has *impact* with the previous version of the specification (same release).<br><br>This CR has impact under functional point of view. Namely the function of power setting in case of TX diversity can be affected, if an implementation was based on a “per branch power” instead of the “sum of powers”.<br><br>This CR has no impact under protocol point of view. |
| ***Consequences if not approved:*** | ⌘ | The interpretation of power settings in case of TX diversity is ambiguous. The RNC is not in full control of the cell set up. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 9.2.1.21, 9.2.1.39. 9.2.1.40, 9.2.1.46A, 9.2.1.49A, 9.2.2.D, 9.2.2.33, 9.2.3.5B, 9.2.3.5E, 9.2.3.9 |

| ***Other specs*** | ⌘ | Y | N | Other core specifications | ⌘ | TS 25.423 R99 CR850<br>TS 25.423 REL-4 CR851<br>TS 25.423 REL-5 CR852<br>TS 25.433 R99 CR879 |
|---|---|---|---|---|---|---|
| | | X | | | | |

| | | | |
|---|---|---|---|
| ***affected:*** | | | TS 25.433 REL-5 CR881 |
| | | 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.

/*Partly omitted*/

### 9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols]. [TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DL Power | | | INTEGER (-350..150) | Value = DL Power /10<br>Unit: dB<br>Range: -35.0 .. +15.0 dB<br>Step: 0.1dB |

/*Partly omitted*/

### 9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the maximum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Maximum DL Power Capability | | | INTEGER (0..500) | Unit: dBm<br>Range: 0..50 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.40 Maximum Transmission Power

The Maximum Transmission Power is the maximum value for the linear sum of the power ~~for~~of all downlink physical channels ~~added together~~, that is allowed to be used ~~simultaneously~~ in a cell. If Transmit Diversity is applied to one downlink physical channel, the power to be considered for this downlink physical channel is the linear sum of the power used for this downlink physical channel on all branches. The reference point is the antenna connector.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Maximum Transmission Power | | | INTEGER (0..500) | Unit: dBm<br>Range: 0..50<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Minimum DL Power Capability | | | INTEGER (0..800) | Unit: dBm<br>Range: -30 .. +50 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.49A PICH Power

The *PICH Power* IE indicates a power level relative to the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell. If Transmit Diversity is applied to the PICH, the *PICH Power* IE indicates the power offset between the linear sum of the power for the PICH on all branches and the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PICH Power | | | INTEGER (-10..+5) | Unit: dB<br>Range: -10 .. +5 dB<br>Step: 1dB |

/*Partly omitted*/

### 9.2.2.D AICH Power

The *AICH Power* IE indicates a power level (measured as the power per transmitted acquisition indicator when several AIs are transmitted in parallel) relative to the primary CPICH power configured in a cell. If Transmit Diversity is applied to the AICH, the *AICH Power* IE indicates the power offset between the linear sum of the power for the AICH on all branches and the Primary CPICH power configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| AICH Power | | | INTEGER (-22..+5) | Unit: dB<br>Range: -22 .. +5 dB<br>Step: 1 dB |

/*Partly omitted*/

### 9.2.2.33 Primary CPICH Power

The Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Primary CPICH Power | | | INTEGER (-100..500) | Value = Primary CPICH Power/10<br>Unit: dBm<br>Range: -10.0..+50.0 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.5B DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the DwPCH, the DwPCH power is the linear sum of the power that is used for transmitting the DwPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DwPCH Power | | | INTEGER (-150..+400,…) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.5E Max FPACH Power

Max FPACH Power is the maximum power that shall be used for transmitting the FPACH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the FPACH, the Max FPACH Power is the maximum of the linear sum of the power that is allowed for transmitting the FPACH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| FPACH Power | | | INTEGER (-150..+400,…) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.9 PCCPCH Power

The Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the Primary CCPCH power is the linear sum of the power that is used for transmitting the Primary CCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PCCPCH Power | | | INTEGER (-15..+40,…) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |

**3GPP TSG-RAN3 Meeting #37**
**Budapest, Hungary, 25th – 29th August 2003**

***Tdoc ⌘R3-030998***

*CR-Form-v7*

# CHANGE REQUEST

⌘ **25.433** **CR** **881** ⌘ **rev** **-** ⌘ Current version: **5.5.0** ⌘

*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:*** | ⌘ | Corrections to Tx Diversity |
| ***Source:*** | ⌘ | RAN3 |
| ***Work item code:*** | ⌘ | TEI |
| ***Date:*** | ⌘ | 25/08/2003 |
| ***Category:*** | ⌘ | **A** |
| ***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 current power definitions are not considering the case, when a Node B is in Tx diversity mode. |
| ***Summary of change:*** | ⌘ | R0: It is clarified that in case of Tx Diversity, the power settings refer to the sum for main and diversity branch.<br><br>Impact Analysis:<br>Impact Assessment towards the previous version of the specification (same release):<br>This CR has *impact* with the previous version of the specification (same release).<br><br>This CR has impact under functional point of view. Namely the function of power setting in case of TX diversity can be affected, if an implementation was based on a "per branch power" instead of the "sum of powers".<br><br>This CR has no impact under protocol point of view. |
| ***Consequences if not approved:*** | ⌘ | The interpretation of power settings in case of TX diversity is ambiguous. The RNC is not in full control of the cell set up. |

| | | |
|---|---|---|
| ***Clauses affected:*** | ⌘ | 9.2.1.21, 9.2.1.39. 9.2.1.40, 9.2.1.46A, 9.2.1.49A, 9.2.2.D, 9.2.2.33, 9.2.3.5B, 9.2.3.5E, 9.2.3.9 |

| ***Other specs*** | ⌘ | Y | N | Other core specifications | ⌘ | TS 25.423 R99 CR850<br>TS 25.423 REL-4 CR851<br>TS 25.423 REL-5 CR852<br>TS 25.433 R99 CR879 |
|---|---|---|---|---|---|---|
| | | X | | | | |

| | | | |
|---|---|---|---|
| ***affected:*** | | | TS 25.433 REL-4 CR880 |
| | | X | Test specifications |
| | | 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.

/*Partly omitted*/

### 9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols]. [TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher].

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DL Power | | | INTEGER (-350..150) | Value = DL Power /10<br>Unit: dB<br>Range: -35.0 .. +15.0 dB<br>Step: 0.1dB |

/*Partly omitted*/

### 9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell or a Power Local Cell Group within the Node B. The reference point ~~-~~is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the maximum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Maximum DL Power Capability | | | INTEGER (0..500) | Unit: dBm<br>Range: 0..50 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.40 Maximum Transmission Power

The Maximum Transmission Power is the maximum value for the linear sum of the power ~~for~~of all downlink physical channels ~~added together~~, that is allowed to be used ~~simultaneously~~ in a cell. If Transmit Diversity is applied to one downlink physical channel, the power to be considered for this downlink physical channel is the linear sum of the power used for this downlink physical channel on all branches. The reference point is the antenna connector.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Maximum Transmission Power | | | INTEGER (0..500) | Unit: dBm<br>Range: 0..50<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Minimum DL Power Capability | | | INTEGER (0..800) | Unit: dBm<br>Range: -30 .. +50 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.1.49A PICH Power

The *PICH Power* IE indicates a power level relative to the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell. If Transmit Diversity is applied to the PICH, the *PICH Power* IE indicates the power offset between the linear sum of the power for the PICH on all branches and the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PICH Power | | | INTEGER (-10..+5) | Unit: dB<br>Range: -10 .. +5 dB<br>Step: 1dB |

/*Partly omitted*/

### 9.2.2.D AICH Power

The *AICH Power* IE indicates a power level (measured as the power per transmitted acquisition indicator when several AIs are transmitted in parallel) relative to the primary CPICH power configured in a cell. If Transmit Diversity is applied to the AICH, the *AICH Power* IE indicates the power offset between the linear sum of the power for the AICH on all branches and the Primary CPICH power configured in a cell.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| AICH Power | | | INTEGER (-22..+5) | Unit: dB<br>Range: -22 .. +5 dB<br>Step: 1 dB |

/*Partly omitted*/

### 9.2.2.33 Primary CPICH Power

The Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| Primary CPICH Power | | | INTEGER (-100..500) | Value = Primary CPICH Power/10<br>Unit: dBm<br>Range: -10.0..+50.0 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.5B DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the DwPCH, the DwPCH power is the linear sum of the power that is used for transmitting the DwPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| DwPCH Power | | | INTEGER (-150..+400,…) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.5E Max FPACH Power

Max FPACH Power is the maximum power that shall be used for transmitting the FPACH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the FPACH, the Max FPACH Power is maximum of the linear sum of the power that is allowed for transmitting the FPACH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| FPACH Power | | | INTEGER (-150..+400,…) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |

/*Partly omitted*/

### 9.2.3.9 PCCPCH Power

The Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the Primary CCPCH power is the linear sum of the power that is used for transmitting the Primary CCPCH on all branches.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|---|---|---|---|---|
| PCCPCH Power | | | INTEGER (-15..+40,…) | Unit: dBm<br>Range: -15 ..+40 dBm<br>Step: 0.1 dB |