TSG-RAN Meeting #14 Kyoto, Japan, 11 - 14, December, 2001

Title: Agreed CRs to TS 25.423

Source: TSG-RAN WG3

Agenda item: 8.3.3/8.3.4/9.4.3

| RP Tdoc | R3 Tdoc | Spec | CR_Num | Rev | Release | CR_Subject | Cat | Cur_Ver | New_Ver | Workitem |
|-----------|-----------|--------|--------|-----|---------|--|-----|---------|---------|-------------------|
| RP-010911 | R3-013669 | 25.423 | 485 | 1 | Rel-4 | Correction to SFN-SFN Observed Time Difference | F | 4.2.0 | 4.3.0 | LCS1-UEPos-lublur |
| | | | | | | Measurement report mapping | | | | |

R3-013669

| | In RNSAP SFN-SFN Measurement Value Information IE shall be corrected according to mapping table modification made to TS 25.133 | | |
|---------------------------------|--|--|--|
| Summary of change: # | IE Type and Reference for <i>SFN-SFN</i> IE corrected. Reported SFN-SFN Values for TDD and FDD mode of operation specified. Reported SFN-SFN Value for FDD mode of operation corrected according to mapping table modification made to TS 25.133. | | |
| | Reporting of reference cell Timeslot removed in FDD mode of operation. There is no use to report the reference cell Timeslot, since the UTRAN SFN-SFN Observed time difference measurement is always made at the beginning of one Primary CPICH frame i.e. TS0. | | |
| | Structure of <i>SFN-SFN Measurement Value Information</i> IE aligned with the NBAP i.e. the SFN IE and TS IE grouped to SFN-SFN Measurement Time Stamp IE group | | |
| | | | |
| Consequences if % not approved: | If this CR is not approved, the report mapping for SFN-SFN Observed Time Difference Measurement is not aligned with the TS25.133 | | |
| | Impact Analysis: | | |
| | Impact assessment towards the previous version of the specification (same release): | | |
| | This CR has isolated impact with the previous version of the specification because this CR corrects the report mapping of the measured SFN-SFN Observed Time Difference value for which the specification was incorrect. | | |
| | This CR has an impact under protocol and functional point of view. | | |
| | The impact can be considered isolated because the change affects one system function namely the SFN-SFN Observed Time Difference Measurements on Common Resources. | | |
| | | | |
| Clauses affected: # | 0.2152B02152B102152C02152D031 | | |

| enddood anfootoan | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| Other specs affected: | Conter core specifications Test specifications O&M Specifications Test specifications | | | | | | |
| Other comments: | X | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. 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 <u>ftp://www.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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

9.2.1.52B SFN-SFN Measurement Threshold Information

The SFN-SFN Measurement Threshold Information defines the related thresholds SFN-SFN Observed Time Difference measurements which shall trigger the Event On Modification.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|--------------------------------------|----------|-------|--------------------------|---|
| SFN-SFN Change Limit | -0 | | INTEGER(1. .16384,) | Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip. |
| Predicted SFN-SFN Deviation Limit | 0 | | INTEGER(1. .16384,) | Deviation the Predicted SFN- SFN from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip. |

9.2.1.52B1 SFN-SFN Measurement Time Stamp

| IE/Group Name | Presence | <u>Range</u> | IE type and reference | Semantics description |
|----------------|----------|--------------|--------------------------|--|
| CHOICE Mode | | | <u></u> | |
| <u>>FDD</u> | | | | |
| >>SFN | M | | <u>9.2.1.52A</u> | Indicates the SFN of the reference cell at which the measurement has been performed. |
| <u>>TDD</u> | | | | |
| >>SFN | M | | <u>9.2.1.52A</u> | Indicates the SFN of the reference cell at which the measurement has been performed. |
| >>Time Slot | M | | <u>9.2.1.56</u> | Indicates the Time Slot of the reference cell at which this measurement has been performed. |

9.2.1.52C SFN-SFN Measurement Value Information

The SFN-SFN Measurement Value Information IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements as well as other related information.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
|--|----------|---|---|---|
| Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information | | 1 <maxnoofmeasn Cell></maxnoofmeasn | | |
| >UTRAN Cell Identifier | | | 9.2.1.71 | |
| >SFN-SFN <u>Value</u> | M | | 9.2.1.52DIN TEGER(- 204802047 9) | |
| >SFN-SFN Quality | М | | INTEGER(0. .16383) | Indicates the standard deviation of the SFN-SFN measurements. |
| >SFN-SFN Drift Rate | М | | INTEGÉR(- 163831638 3) | Indicates the SFN-SFN drift rate in 1/16 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell. |
| >SFN-SFN Drift Rate Quality | М | | INTEGER(0. .16383) | Indicates the standard deviation of the SFN-SFN drift rate measurements. |
| <u>>SFN-SFN Measurement</u> Time Stamp | M | | <u>9.2.1.51B1</u> | |
| >SFN | H | | 9.2.1.52A | Indicates the SFN at which this measurement has been performed. |
| >Timeslot | M | | 9.2.1.56 | Indicates the Time Slot at which this measurement has been performed. |
| Unsuccessful Neighbouring cell SFN- SFN Observed Time Difference Measurement Information | | 0 <maxnoofmeasn Cell-1></maxnoofmeasn | | |
| >UTRAN Cell Identifier | | | 9.2.1.71 | |

9.2.1.52D SFN-SFN Value

| IE/Group Name | Presence | Range | IE type and | Semantics description |
|----------------|----------|-------|------------------|-------------------------------|
| | | | <u>reterence</u> | |
| CHOICE Mode | | | | |
| <u>>FDD</u> | | | | |
| >>SFN-SFN | M | | INTEGER(0. | According to mapping in [23]. |
| | | | . 614399) | |
| <u>>TDD</u> | | | | |
| >>SFN-SFN | M | | INTEGER(0. | According to mapping in [24]. |
| | | | . 40961) | |

| 9.3.4 Information Elements Definitions | |
|--|-------------|
| ************************************* | |
| Information Element Definitions | |
| ********************************** | |
| Partly Omitted | |
| SFNSFN_FDD ::= INTEGER(<u>0614399</u> -2048020479) | |
| SFNSFN-TDD ::= INTEGER(040961) | |
| GA-AccessPointPositionwithOptionalAltitude ::= SEQUENCE { geographicalCoordinate GeographicalCoordinate, altitudeAndDirection GA-AltitudeAndDirection OPTIONAL, iE-Extensions ProtocolExtensionContainer { { GA-AccessPointPositionwithOptionalAltitude-ExtIEs} | } OPTIONAL, |
| } | |
| $GA-AccessPointPositionwithOptionalAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {$ | |
| } | |
| SFNSFNChangeLimit ::= INTEGER (116384) | |
| SFNSFNDriftRate ::= INTEGER (-1638316383) | |
| SFNSFNDriftRateQuality ::= INTEGER (016383) | |
| SFNSFNMeasurementThresholdInformation::= SEQUENCE { sFNSFNChangeLimit SFNSFNChangeLimit OPTIONAL, predictedSFNSFNDeviationLimit PredictedSFNSFNDeviationLimit OPTIONAL, iE-Extensions ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs } } OPTIONAL, | |
| } | |
| $SFNSFNMeasurementThresholdInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {$ | |
| } | |
| SFNSFNMeasurementValueInformation ::= SEQUENCE { successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(1maxNrOfMeasNCell)) OF SEQUENCE { uC-ID UC-ID, | |
| sFNSFNValueSFNSFNValue,sFNSFNQualitySFNSFNQuality,sFNSFNDriftRateSFNSFNDriftRate,sFNSFNDriftRateQualitySFNSFNDriftRateQuality, | |

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| sFNSFNTimeStampInformation SFNSFNTimeStampInformation, |
|---|
| sFN SFN, |
| iF-Extensions Protocol ExtensionContainer { { |
| SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs} } OPTIONAL, |
| ···· |
| }, |
| unsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(0maxNrOfMeasNCell-1)) OF |
| SEQUENCE { |
| |
| ExtEq} OPTIONAL |
| |
| }, |
| iE-Extensions ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs} } OPTIONAL, |
| |
| } |
| |
| SFNSFNMeasurementValueInformationItem-Extles RNSAP-PROTOCOL-EXTENSION ::= { |
| |
| } |
| |
| $SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {}$ |
| |
| } |
| |
| ${\tt Unsuccessfull}$ NeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs <code>RNSAP-PROTOCOL-EXTENSION</code> ::= { |
| |
| 3 |
| |
| SFNSFNQuality ::= INTEGER (016383) |
| |
| SENSENTIMEStampInformation ::= CHOICE { |
| |
| BROWNING THE STAND |
| SFNSFNIImestamp-IDD SFNSFNIImestamp-IDD, |
| |
| |
| SFNSFNTimeStamp-TDD::= SEOUENCE { |
| sFN SFN, |
| timeSlot TimeSlot, |
| iE-Extensions ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} OPTIONAL, |
| |
| |
| |
| SENSENTIMESLAMP-EXCLES ENSAP-PROTOCOL-EXTENSION ::= { |
| 1 <u></u> |

}

| SFNSFNValue ::= CH | HOICE { |
|--------------------|-------------|
| sFNSFN-FDD | SFNSFN-FDD, |
| sFNSFN-TDD | SFNSFN-TDD, |
| <u> </u> | |
| } | |