**3GPP TSG-RAN2 Meeting #121 *R2-2302219***

**Athens, Greece, 27th Feb 2023 - 3rd Mar 2023**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.306** | **CR** | **1869** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Introduction of UE capability parameter cellIndividualOffsetForNR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Reliance Jio, CEWiT, Indian Institute of Technology Madras, Indian Institute of Technology Hyderabad, Saankhya Labs, Samsung | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 02.03.2023 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-16 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change 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](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To ensure backward compatibility of UEs supporting Cell specific offset support in NR measurement object for LTE with existing UEs a new UE capapbility parameter has been introduced | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Following changes are introduced:  1. Added new UE capability parameter cellIndividualOffsetForNR | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | In absence of new UE capability parameter cellIndividualOffsetForNR LTE BS would not be able to distinguish the UEs supporting Cell specific offset in NR measurement object for LTE from other UEs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **Y** |  | Other core specifications | | | | TS 36.331 CR 4912 | | |
| ***affected:*** | |  | **N** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **N** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

----------------------------Start of change----------------------

### 4.3.7 Inter-RAT parameters

#### 4.3.7.1 *utraFDD*

This parameter defines whether the UE supports UTRA FDD.

A UE that supports UTRAN FDD shall support inter-RAT PS handover to UTRAN.

#### 4.3.7.2 *supportedBandListUTRA-FDD*

Only applicable if the UE supports UTRA FDD. This field defines which UTRA FDD radio frequency bands are supported by the UE.

#### 4.3.7.3 *utraTDD128*

This parameter defines whether the UE supports UTRA TDD 1.28 Mcps.

A UE that supports UTRAN TDD 1.28 Mcps shall support inter-RAT PS handover to UTRAN.

#### 4.3.7.4 *supportedBandListUTRA-TDD128*

Only applicable if the UE supports UTRA TDD 1.28 Mcps. This field defines which UTRA TDD 1.28 Mcps radio frequency bands are supported by the UE.

#### 4.3.7.5 *utraTDD384*

This parameter defines whether the UE supports UTRA TDD 3.84 Mcps.

A UE that supports UTRAN TDD 3.84 Mcps shall support inter-RAT PS handover to UTRAN.

#### 4.3.7.6 *supportedBandListUTRA-TDD384*

Only applicable if the UE supports UTRA TDD 3.84 Mcps. This field defines which UTRA TDD 3.84 Mcps radio frequency bands are supported by the UE.

#### 4.3.7.7 *utraTDD768*

This parameter defines whether the UE supports UTRA TDD 7.68 Mcps.

A UE that supports UTRAN TDD 7.68 Mcps shall support inter-RAT PS handover to UTRAN.

#### 4.3.7.8 *supportedBandListUTRA-TDD768*

Only applicable if the UE supports UTRA TDD 7.68 Mcps. This field defines which UTRA TDD 7.68 Mcps radio frequency bands are supported by the UE.

#### 4.3.7.9 *geran*

This parameter defines whether the UE supports GERAN.

#### 4.3.7.10 *supportedBandListGERAN*

Only applicable if the UE supports GERAN. This field defines which GERAN radio frequency bands are supported by the UE.

#### 4.3.7.11 *interRAT-PS-HO-ToGERAN*

Only applicable if the UE supports GERAN. This field defines whether the UE supports inter-RAT PS handover to GERAN.

#### 4.3.7.12 *cdma2000-HRPD*

This parameter defines whether the UE supports HRPD.

#### 4.3.7.13 *supportedBandListHRPD*

Only applicable if the UE supports HRPD. This field defines which HRPD radio frequency bands are supported by the UE.

#### 4.3.7.14 *tx-ConfigHRPD*

Only applicable if the UE supports HRPD. This field defines whether the UE supports single or dual transmitter. With dual transmitter, UE can transmit simultaneously on both E-UTRAN and HRPD.

#### 4.3.7.15 *rx-ConfigHRPD*

Only applicable if the UE supports HRPD. This field defines whether the UE supports single or dual receiver. With dual receiver, UE can receive simultaneously on both E-UTRAN and HRPD.

#### 4.3.7.16 *cdma2000-1xRTT*

This parameter defines whether the UE supports 1xRTT.

#### 4.3.7.17 *supportedBandList1XRTT*

Only applicable if the UE supports 1xRTT. This field defines which 1xRTT radio frequency bands are supported by the UE.

#### 4.3.7.18 *tx-Config1XRTT*

Only applicable if the UE supports 1xRTT. This field defines whether the UE supports single or dual transmitter. With dual transmitter, UE can transmit simultaneously on both E-UTRAN and 1xRTT.

#### 4.3.7.19 *rx-Config1XRTT*

Only applicable if the UE supports 1xRTT. This field defines whether the UE supports single or dual receiver. With dual receiver, UE can receive simultaneously on both E-UTRAN and 1xRTT.

#### 4.3.7.20 *e-CSFB-1XRTT*

Only applicable if the UE supports CDMA2000 1xRTT. This field defines whether the UE supports enhanced 1xRTT CS fallback.

#### 4.3.7.21 *e-CSFB-ConcPS-Mob1XRTT*

Only applicable if the UE supports CDMA2000 1xRTT and CDMA2000 HRPD simultaneously. This field defines whether the UE supports concurrent enhanced CS fallback to CDMA2000 1xRTT and handover/redirection to CDMA2000 HRPD.

#### 4.3.7.22 *e-RedirectionUTRA*

This parameter defines whether the UE supports use of UTRA system information provided by *RRCConnectionRelease* upon redirection.

#### 4.3.7.23 e-RedirectionGERAN

This parameter defines whether the UE supports use of GERAN system information provided by *RRCConnectionRelease* upon redirection.

A UE that supports CS fallback to GERAN shall support e-Redirection to GERAN.

#### 4.3.7.24 *dtm*

This parameter defines whether the UE supports Dual Transfer Mode (DTM) in GERAN.

#### 4.3.7.25 *e-CSFB-dual-1XRTT*

Only applicable if the UE supports CDMA2000 1xRTT, dual transmitter (i.e. UE can transmit simultaneously on both E-UTRAN and 1xRTT) and dual receiver (i.e. UE can receive simultaneously on both E-UTRAN and 1xRTT). This field defines whether the UE supports dual receiver/transmitter enhanced 1xRTT CS fallback (dual Rx/Tx e1xCSFB).

#### 4.3.7.26 *e-RedirectionUTRA-TDD*

This parameter defines whether the UE supports redirection to multiple carrier frequencies both with and without using UTRA TDD system information for cells on multiple carrier frequencies provided by *RRCConnectionRelease*.

#### 4.3.7.27 *cdma2000-NW-Sharing-r11*

Only applicable if the UE supports CDMA2000 1xRTT or CDMA2000 HRPD. This parameter defines whether the UE supports per PLMN CDMA2000 interworking in E-UTRAN shared networks as specified in TS 36.331 [5].

#### 4.3.7.28 *mfbi-UTRA*

This field is only applicable for a UE supporting UTRA FDD. It indicates if the UE supports the signalling requirements of multiple radio frequency bands in a UTRA FDD cell, as defined in TS 25.307 [20].

#### 4.3.7.29 *supportedBandListWLAN*

This field defines which WLAN radio frequency

#### 4.3.7.30 *cellIndividualOffsetForNR*

This parameter defines whether the UE supports cell specific offset for inter-RAT measurement in LTE for NR neighbors as specified in TS 36.331 [5].

----------------------------End of change----------------------