**3GPP TSG RAN WG1 #103-e R1-2008523**

**e-Meeting, October 26th – November 13th, 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **36.213** | **CR** | **DRAFT** | **rev** |  | **Current version:** | **16.3.0** |  |
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| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Power sharing for LTE DAPS | | | | | | | | | |
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| ***Source to WG:*** | Moderator (Qualcomm Incorporated) | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LTE\_feMob-Core | | | | |  | ***Date:*** | | | 2020-11-03 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | In RAN1#102-e, the following was agreed regarding power sharing for inter-band DAPS:  Agreements:   * UL power sharing is introduced for inter-band DAPS. * The following optional UE capabilities are introduced to indicate support of power sharing (per band combination):   + Support of power sharing for sync DAPS.   + Support of power sharing for async DAPS.   + NOTE: These capabilities are separate from the capability indicating DAPS support (i.e., a UE may indicate support of DAPS but no power sharing in a band combination) * An RRC configuration parameter is introduced to configure DAPS power sharing with the same contents as PowerCoordinationInfo-r12 (up to RAN2 whether to reuse PowerCoordinationInfo-r12 or define a new IE)   + p-MeNB-r12 INTEGER (1..16): power sharing parameter for target eNB.   + p-SeNB-r12 INTEGER (1..16): power sharing parameter for source eNB.   + powerControlMode-r12: Indicates the power sharing mode. * NOTE: Support for UL cancellation is not introduced in Rel-16 * NOTE: Behavior of UE’s not supporting power sharing is FFS. | | | | | | | | |
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| ***Summary of change:*** | | * Implement the agreement from RAN1#102-e * Specify that if the UE does not support power sharing, or for intra-band DAPS, the UE does not expect channels in source and target eNB to overlap in time. | | | | | | | | |
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| ***Consequences if not approved:*** | | * Power sharing is not supported for DAPS. * UE behavior for intra-band DAPS and when power sharing is not supported is not specified. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.4a(new) | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

5.1.4a(new) Power allocation for dual active protocol stack

If a UE indicates a capability for dual active protocol stack based handover (DAPS HO), the UE can be provided with a source MCG and a target MCG.

If a UE is configured with a target MCG and a source MCG in different bands, and the UE is configured with *DAPS-PowerCoordinationInfo*, the UE shall apply the procedures described in clause 5.1.4 with the following modifications

* Consider the target MCG as the MCG and the source MCG as the SCG.
* Replace *p-MeNB* and *p-SeNB* by *p-DAPS-Target* and *p-DAPS-Source*, respectively.
* Replace “(a)synchronous dual connectivity” by “(a)synchronous DAPS”.
* “Dual connectivity power control mode” is replaced by “DAPS power control mode”, and is given by higher layer parameter *uplinkPowerSharingDAPS-Mode*”.
* The UE assumes only Pcell exists in each MCG.

If UE does not indicate a capability for power sharing between source and target MCGs in DAPS handover, or if a UE is configured with a target MCG and a source MCG in the same band, the UE does not expect the transmissions on the target and source cell to overlap in time domain.