**3GPP SA WG2 Meeting #165 *S2-240xxxx***

**Hyderabad, India, 14-18 October 2024 *(was S2-240xxxx)***

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **23.502** | **CR** | **<CR#>** | **rev** | **-** | **Current version:** | **<Version#>** |  |
|  |
| *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 |  | Core Network | **x** |

|  |
| --- |
|  |
| ***Title:***  | PS Data Off Exemption configuration for IMS Data Channel |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** | SA2 |
|  |  |
| ***Work item code:*** | NG\_RTC |  | ***Date:*** | 2024-10-14 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *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 canbe 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:*** | The conclusions of KI#5 on " Handling of PS data off exemption for services over IMS DC " are agreed:1. "Services over IMS Data Channel" is configured as a whole service in the list of 3GPP PS Data Off Exempted Services.2. When the user activates/de-activates PS Data Off in the UE, existing procedures shall be used.3. The IMS AS may further notify the DCSF about the PS Data Off status.4. If IMS DC is not configured as an exempted service and PS Data Off is activated in the UE, all bootstrap and application data channels for this UE must be terminated. The UE shall enforce as follows:a) If there is standalone IMS DC session, then UE shall terminate the standalone IMS DC session.b) If there is IMS DC session including audio/video media while audio and/or video media is exempted, UE shall keep only exempted audio and/or video media and release IMS DC (both bootstrap DC and application DC). The network shall enforce as follows:a) If there is IMS DC session with audio/video media while audio and/or video media is exempted, IMS AS shall ensure that only exempted audio and/or video media is permitted. This CR implements the approved conclusions in Annex X: IMS 3GPP PS Data Off Service Accessibility. |
|  |  |
| ***Summary of change:*** | Added Services over IMS DC in PS Data Off Exemption list.Clarified UE enforcement on stand alone IMS DC. |
|  |  |
| ***Consequences if not approved:*** | 3GPP PS Data Off Exemption for service over IMS Data Channel is not supported. |
|  |  |
| ***Clauses affected:*** | X.1, X.2.3 |
|  |  |
|  | **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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

>>>>BEGINNING OF CHANGES<<<<

# X.1 General

3GPP PS Data Off is an optional feature. When activated by the user and when the network supports the feature, this feature allows control of the IMS services and more broadly SIP based services using the IMS framework that the user is allowed to access, for both originating and terminating sessions.

The list of 3GPP PS Data Off Exempted Services is configured by the HPLMN in the UE and in the network for enforcement. The list of SIP based service can include any one or any combination of the following services:

- MMTel Voice;

- SMS over IMS;

- MMTel Video;

- Services over IMS Data Channel;

- USSI;

- Particular IMS Services not defined by 3GPP, where each such IMS service is identified by an IMS communication service identifier.

NOTE: "Services over IMS Data Channel" is considered as a whole service in the list of 3GPP PS Data Off Exempted Services.

>>>> NEXT CHANGES<<<<

## X.2.3 UE Enforcement of 3GPP SIP-Based 3GPP PS Data Off Exempt Services

When the UE changes its 3GPP PS Data Off status from inactive to active, the UE shall ensure that only the 3GPP PS Data Off Exempted Services in the provisioned list are allowed to be transported, and the corresponding IP uplink packets shall be sent accordingly as follows:

- The UE shall prevent sending of UE-originating SIP requests which are for services other than the 3GPP PS Data Off Exempted Services configured in the UE via device management or in the UICC.

- The UE shall prevent sending of SDP offers and SDP answers with media streams for the media types other than those related to the 3GPP PS Data Off Exempted Services configured via device management or in the UICC.

- A UE shall immediately stop sending any media packets and shall terminate all ongoing sessions for all SIP-based services that are not 3GPP PS Data Off Exempt. Specifically, if Services over IMS Data Channel is not in the list of services that are 3GPP PS Data Off Exempt and there is an ongoing standalone data channel session, the UE shall terminate the standalone IMS DC session.

- A UE provisioned with an updated list shall enforce the updated list immediately. To that effect, the UE shall immediately stop sending any media packets and terminate all ongoing SIP-based sessions handling the 3GPP PS Data Off Exempt Service(s) removed from the list.

>>>>END OF CHANGES<<<<