**3GPP SA4#127-bis-eS4-240728**

Online, 08-12 Apr 2024

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| *CR-Form-v12.2* | | | | | | | | |
| **PSEUDO CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.510** | **CR** | pseudo | **rev** |  | **Current version:** | 1.1.4 |  |
|  | | | | | | | | |
| *For* [***HELP***](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 |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Adding BDT management to M6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Tencent Cloud | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS\_Pro\_Ph2 | | | | |  | ***Date:*** | | | 2024-04-02 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | Adding the BDT method to M6 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 10.3.1 (new) | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incomplete spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

|  |
| --- |
| **1st Change** |

## 10.3 Dynamic Policy client API

### 10.3.1 Dynamic Policy Methods

#### 10.3.1.1 Retrieve Background Data Transfer information

The method getBDTInfo() is used for retrieving the Background Data Transfer resource delivered by the Media AF. The return parameters of the method are specified in tables 10.3.1.1-1.

Table 10.3.1.1-1 Return parameters for getBDTInfo() method

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| BDT\_POLICY\_INFO | object | The information about BDT opportunity provided by the Media AF. .. |
| BDT\_POLICY\_ACTIVE | string | The status of BDT as described in 10.3.2.1. |

#### 10.3.1.2 Request Background Data Transfer

The method requestBDT() is employed to request opportunity for Background Data Transfer. The Media Session Handler convey the request to the Media AF and provide the corresponding response. The input and return parameters of the method are specified in tables 10.3.1.2-1 and 10.3.1.2-2.

Table 10.3.1.2-1 Input parameters for requestBDT() method

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| BDT\_ESTIMATEDATA‌TRANSFER‌VOLUME | object | The Application’s desired timed window and data volume for BDT. |

Table 10.3.1.2-1 Return parameters for requestBDT() method

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| BDT\_POLICY\_INFO | object | The granted timed window and maximum downlink and uplink bitrates for BDT. |

### 10.3.2 Dynamic Policy information







#### 10.3.2.1 Background Data Transfer information

Table 10.3.2-1 specifies the status information relating to Background Data Transfer that may be obtained from the Media Session Handler through reference points M6 and M11.

Table 10.3.2.1-1: Status Information relating to Background Data Transfer

|  |  |  |  |
| --- | --- | --- | --- |
| Status | Type | Parameter | Definition |
| BDT\_POLICY\_ACTIVE | Boolean |  | indicates whether a Background Data Transfer policy is currently active. |
| BDT\_POLICY\_INFO | Object |  | A description of the active Background Data Transfer policy. |

Table 10.3.2.1-2 provides a list of notification events relating to Background Data Transfer exposed by the Media Session Handler at reference points M6 and M11.

Table 10.3.2.1-2: Notification Events relating to Background Data Transfer

|  |  |  |
| --- | --- | --- |
| Status | Definition | Payload |
| BDT\_WINDOW\_START | Notifies the application of the start of a BDT time window. |  |
| BDT\_WINDOW\_END | Notifies the application of the end of a BDT time window. |  |

Table 10.3.2.1-3 provides a list of error events relating to Background Data Transfer exposed by the Media Session Handler at reference points M6 and M11.

Table 10.3.2.1.-3: Error Events relating to Background Data Transfer

|  |  |  |
| --- | --- | --- |
| Status | Definition | Payload |
| ERROR\_BDT\_USAGE | Triggered when there is an error related to the usage of active Background Data Transfer policy. | Error description |